

CURRICULUM VITAE

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WWW: <http://sese.asu.edu/> <http://www.asu.edu/clas/hst/www/midUV.html>
<http://hubblesite.org/news/2011/04> <http://hubblesite.org/news/2010/01>
<http://hubblesite.org/news/2004/28> <http://hubblesite.org/news/1996/29>

Education:

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|----------------|----------------------|---|
| June 6, 1984: | University of Leiden | Ph.D. in Astronomy |
| Sep. 26, 1979: | University of Leiden | M.Sc. in Astronomy and Physics |
| Feb. 10, 1976: | University of Leiden | B.Sc. in Astronomy, Physics and Mathematics |

Professional Experience:

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|---------------|---|--|
| 2008-present: | Arizona State University | Co-Director, ASU Cosmology Initiative |
| 2008-present: | Arizona State University | Foundation Professor of Astrophysics |
| 2006-present: | Arizona State University | Regents' Professor of Astronomy |
| 1997-present: | Arizona State University | Professor of Physics and Astronomy |
| 1994-2000: | Arizona State University | Associate Chair, Department of Physics and Astronomy |
| 1987-present: | University of Arizona | Adjunct Astronomer, Steward Observatory |
| 1991-1997: | Arizona State University | Associate Professor of Physics and Astronomy |
| 1987-1991: | Arizona State University | Assistant Professor of Physics and Astronomy |
| 1986-1987: | California Institute of Technology (Pasadena) | Project Scientist in the Space Telescope Wide Field/Planetary Camera Instrument Definition Team |
| 1984-1986: | Carnegie Observatory (Pasadena) | Carnegie Postdoctoral Research Fellow |
| 1979-1984: | University of Leiden, (the Netherlands) | Ph.D. Research Assistant employed by the Netherlands Foundation for the Advancement of Pure Research (ZWO) |

Memberships:

| | | |
|---------------|----------------------------------|---|
| 1988-present: | International Astronomical Union | Comm. 9 (instrum.); 28 (galaxies); 40 (radio); 47 (cosmology) |
| 1984-present: | American Astronomical Society | (USA) |
| 1984-present: | Astronomical Soc. of the Pacific | (USA) |
| 1980-present: | Royal Astronomical Society | (United Kingdom) |
| 1979-present: | Nederlandse Astronomen Club | (The Netherlands) |

Honors/Awards:

| | | |
|------------|-------------------------------------|---|
| 1984-1986: | Carnegie Fellow | Carnegie Institution of Washington |
| 1989-1993: | Alfred P. Sloan Research Fellow | Alfred P. Sloan Foundation |
| 2002-2021: | Interdisciplinary Scientist for the | James Webb Space Telescope (NASA/JWST) |
| 2003: | Outstanding Teacher Award | Department of Physics and Astronomy, ASU |
| 2006: | Regents' Professor of Astronomy | Arizona State University |
| 2006: | Distinguished Faculty Award | College of Liberal Arts and Sciences, ASU |
| 2008: | Foundation Professor | Arizona State University |
| 2014: | Honors College Faculty | Arizona State University |

Languages: Dutch (Reading, speaking, writing)
English (Reading, speaking, writing)
French, German (Reading, speaking)
Latin, Greek (Reading)
Fortran, Html (Reading, writing)

SUMMARY OF EXPERIENCE

RESEARCH, NASA PROJECTS AND INSTRUMENTS

Publications: In total, 360 refereed papers published or in press, 20 papers (re)submitted, several in preparation; 34 review papers; 137 non-refereed papers; and 267 published abstracts (see App. 6 of CV). In total, <https://ui.adsabs.harvard.edu/classic-form> lists $\gtrsim 21,700$ current citations with $h\text{-index} \simeq 75$. Also, <http://scholar.google.com> lists $\gtrsim 27,100$ citations with $h \simeq 85$.

Federal Grants: Since 1989, I have brought in ~ 14.4 M\$ in federal grants from NASA and the NSF through over 100 different research projects, including three large HST and JWST projects for FY20–FY27.

Hubble Space Telescope (HST) projects: Since 1990, I have been involved in 80 funded projects with HST, which have used all HST instruments: WF/PC-1, FOC, FOS, GHRS, WFPC2, NICMOS, STIS, ACS and WFC3 (with FGS for guiding only). I was Co-I of the HST Medium Deep Survey Key Project in Cycles 1–5. I have collaborated with over 150 astronomers, more than 60 from over 15 different countries.

(a) The HST Wide Field Camera 3 (WFC3): I have been a key member of the Scientific Oversight Committee (SOC) of HST’s Wide Field Camera 3 (WFC3) since 1998. The SOC oversaw the design and construction of the 130 M\$ WFC3, which was successfully launched towards Hubble by the Space Shuttle astronauts in May 2009, and will enable HST to do front line science well into the 2020’s. I led the far extragalactic WFC3 Early Release Science program, which led to $\gtrsim 70$ refereed papers since 2009.

(b) HST Archival Legacy Project SKYSURF: In 2019, this largest HST Archival project ever proposed was approved for FY20–FY22. I am leading the international SKYSURF team of more than 40 scientists spread over 20 time-zones, including several research scientists, postdocs, graduate students and 10 UG students at ASU. SKYSURF will measure the panchromatic sky-surface brightness and discrete object counts across 248,000 ACS and WFC3 exposures in more than 1100 independent HST fields. SKYSURF will map over 2 million faint stars and galaxies at UV–near-IR wavelengths all across the sky. SKYSURF will also accurately measure and model the Zodiacal belt brightness at $0.2\text{--}1.7\ \mu\text{m}$ in wavelength, set constraints to comet trails, the faint Kuiper Belt Object population, the Diffuse Galactic Light, measure the panchromatic discrete Extragalactic Background Light (EBL), and set much better limits to the diffuse EBL, which will constrain the formation of galaxies since the epoch of First Light a billion years after the Big Bang.

(c) James Webb Space Telescope: I am one of the six Interdisciplinary Scientists worldwide for NASA’s James Webb Space Telescope (JWST), and active member of the JWST Flight Science Working Group (SWG). JWST is the 6.5 meter sequel to Hubble that was launched successfully on Dec. 25, 2021. My responsibilities since 2002 are to define the best JWST science, help the JWST Project define the optimal telescope and instrument performance, simulate JWST’s actual performance, and monitor the design, integration and testing phases of JWST. This included regularly informing the astronomical community, the public, and Congress about JWST. Since 2002, I have led my JWST Guaranteed Time Observers (GTO) team, that has includes 130 scientists across 18 time zones worldwide, including Nobel Laureates. We plan to use our 110 hours of guaranteed observing time starting in summer 2022 to carry out a vigorous research program to make a detailed study of the epoch of First Light, when the universe was less than one billion years old. We aim to observe the First Stars directly during the first 500 Myr via cluster caustic transits, where gravitational lensing can temporarily produce extreme magnifications (Windhorst et al. 2018). We also plan to monitor the best survey field at the North Ecliptic Pole (NEP) to find the first supernovae with JWST in the first billion years (*e.g.*, Jansen & Windhorst 2018). My JWST work in these peer-reviewed projects is supported by NASA grants for 23 years.

NASA: I have over 35 years experience with NASA through HST (as part of WF/PC-1 since 1986, and WFC3 since 1998) and JWST (since 2001). In 1994, I chaired the STUC review of the entire HST Project budget for 1991–1999 (~ 240 M\$/year). My extensive experience with NASA has resulted in a significant number of successful NASA projects.

TEACHING, OUTREACH, PERSONNEL and MANAGEMENT

Teaching: Extensive experience as faculty in teaching 12 different undergraduate astronomy lecture courses and lab courses, and 5 different astronomy graduate courses. I have taught over 14,500 students at ASU since 1987, or about 400 per year on average.

Public Outreach: Give several public lectures to the community each year. Organize regular NASA press releases, Space Science Updates, or Science Writers Workshops on new HST results (see URL's below).

Colloquia and Symposia: I gave over 420 colloquia or seminars worldwide since 1981, including over 75 invited reviews. I gave over 350 colloquia that included HST and/or JWST science. I attended over 105 international Symposia in more than 15 different countries. Details are in App. 7–8 of my full CV.

Personnel Management: In my research group at ASU, I have supervised 21 Research Scientists and post-docs, 62 graduate, 114 undergraduate, and 16 exceptional high-school students doing research at ASU. As associate chair from 1994–2000, I helped run a Department of 40 faculty and 100 graduate students, carry out the hiring of over 50 teaching assistants each year, and help the Department stay within a budget of ~ 500 k\$/year. I have been on the Dean's Council from 1997–2000, and chaired it from 1999–2000. Each year, this Council reviewed typically 50–75 tenure and promotion cases and I advised the Dean about these. I was President of the CLAS Senate from 2017–2018, coaching the Senate to help the dean with a contentious issue about courses in a new ASU school.

Personal Skills: My biggest strengths are to listen, and motivate people to bring out the best in themselves.

OBSERVING, DATA PROCESSING AND ANALYSIS

Direct CCD-Imaging: Extensive experience with CCD-arrays on large telescopes (several 100 nights in total): Palomar 200 inch Four-shooter, KPNO and CTIO 4m MOSAIC, MMT 6.5m MegaCam and Magellan 6.5m IMACS, and smaller telescopes. Experience with CCD data reduction (IRAF, STSDAS and their sequels). Extensive experience with HST UV-optical-near-IR imaging, which we pioneered with WFPC2 and WFC3.

CCD-Spectroscopy: Experience with CCD-spectrographs (over 100 nights): KPNO 4m (Cryocam, HYDRA), Palomar 200 inch (Four-shooter and its Spectrograph), Las Campanas 100 inch, MMT 6.5m Red & Blue Spectrographs. Extensive experience with HST grism spectroscopy, including the STIS and ACS optical and WFC3 IR grisms.

Photometry: Considerable experience with two-dimensional photometry. Developed and tested code to accurately remove cosmic rays, and large scale gradients from CCD-frames (at the level of $10^{-4} \times \text{sky}$).

Radio Astronomy: Extensive experience with the Westerbork Synthesis Radio Telescope and the Very Large Array ($\gtrsim 1000$ hours), and their calibration, FFT, reduction and analysis software (AIPS).

Computer Experience: IBM, DEC/VMS, and UNIX mainframes; UNIX & Linux workstations (DEC, SUN, Mac's, PC's). FORTRAN, IRAF, STSDAS, AIPS, SAOImage, etc., for data reduction & analysis. Windows tasks on Mac or Linux platform (ppt, xls, Word).

My CV is on: <https://rogierwindhorst.github.io/windhorstCV/>

REFERENCES

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APPENDIX 1. FUNDED RESEARCH AND PATENTS

1.a External funding of Windhorst's research projects at ASU

| Source/Grant No. | Total \$ ¹ | PI/ <i>Status</i> : | Period(% effort) ² | Project title |
|--|-----------------------|----------------------------------|-------------------------------|---|
| <i>Grants Funded between FY89≤FY≤01:</i> | | | | |
| AAS/Travel | 2,575 | Windhorst | 03/89-12/89(20) | Morphological evolution of gE's |
| NSF/Ast8821016 | 67,200 | Windhorst | 04/89-09/92(40) | Studies of faint radio galaxies |
| Sloan/BR-2848 | 25,000 | Windhorst | 09/89-09/93(10) | Alfred P. Sloan Research Fellowship |
| IUE/Nag5-1172 | 10,900 | Keel | 07/89-09/90(30) | UV spectra of nearby/high-z radio galaxies |
| IUE/Nag5-1465 | 4,650 | Keel | 10/90-09/91(20) | UV spectra of nearby/high-z radio galaxies |
| Rosat/Nag-1455 | 41,970 | Windhorst | 10/90-09/91(30) | The US ROSAT Deep X-ray Survey Part I |
| HST/GO-2405 | 142,876 | Windhorst | 10/91-09/92(30) | Morphology of gE radio galaxies (Cycle 1) |
| HST/GO-2684 | 44,811 | Griffiths | 10/91-09/92(20) | The HST Medium Deep Survey (Cycle 1) |
| HST/GO-2684 | 88,819 | Griffiths | 10/92-09/93(40) | The HST Medium Deep Survey (Cycle 2) |
| HST/GO-3545 | 107,523 | Windhorst | 10/92-06/94(30) | UV-spectral evol. of gE's to z=0.5 (Cy 2) |
| Rosat/Nag-2322 | 15,000 | Windhorst | 10/93-06/94(05) | The US ROSAT Deep X-ray Survey Part II |
| HST/AR-4936 | 30,677 | Windhorst | 10/93-06/94(10) | Light-profiles of high z Archival gE's |
| HST/GO-2684 | 105,395 | Griffiths | 10/93-06/94(50) | The HST Medium Deep Survey (Cycle 3) |
| NSF/Int9301805 | 9,281 | Burstein | 10/93-06/96(05) | Beijing-Arizona Color (BATC) sky-survey |
| HST/GO-5308 | 83,504 | Windhorst | 07/94-06/95(45) | PC imaging of a collapsing z=2.4 galaxy |
| HST/GO-2684 | 97,385 | Griffiths | 07/94-06/95(50) | The HST Medium Deep Survey (Cycle 4) |
| HST/GO-5985 | 56,711 | Windhorst | 07/95-06/96(50) | WFPC2 imaging of a z=2.4 galaxy cluster |
| HST/GO-2684 | 82,409 | Griffiths | 07/95-06/96(45) | The HST Medium Deep Survey (Cycle 5) |
| HST/AR-6385 | 39,039 | Odewahn | 07/96-06/97(15) | ANN classification of WFPC2 Arch. images |
| HST/AR-6948 | 11,821 | Kellermann | 07/96-06/97(10) | VLA Observations of the Hubble Deep Field |
| HST/GO-6609 | 68,652 | Windhorst | 07/96-06/97(45) | The WFPC2 B-Band parallel survey |
| HST/GO-6610 | 33,799 | Windhorst | 07/96-06/97(30) | WFPC2 Ly-alpha imaging of z=2.4 clusters |
| HST/ED-90113 | 12,050 | Windhorst | 07/97-06/98(20) | Astronomy Education at Jordan Elt. School |
| NASA/Nag-6740 | 50,152 | Windhorst | 10/97-06/98(30) | A systematic study of galaxy evolution |
| HST/AR-7534 | 24,890 | Odewahn | 07/97-06/98(20) | Fourier analysis of galaxy asymmetry vs z |
| HST/GO-7280 | 49,007 | Peacock | 07/97-06/98(30) | NIC2 imaging of the oldest z=1.5 galaxies |
| HST/GO-7452 | 66,657 | Windhorst | 07/98-06/99(50) | NIC2 imaging of radio sources with R>29 |
| HST/GO-7459 | 33,920 | Keel | 07/98-06/99(20) | Age and content of a z=2.4 galaxy cluster |
| NSF/Ast9802963 | 35,492 | Windhorst | 07/98-06/99(20) | Medium-band imaging of faint galaxies |
| HST/AR-8388 | 20,046 | Windhorst | 07/98-06/99(10) | Analysis of compact Ly α galaxies at z=2-3 |
| HST/AR-8357 | 49,217 | Waddington | 07/99-06/00(25) | Galaxy evol. through restframe morphology |
| HST/HF-1123 | 81,425 | Windhorst ³ | 07/99-06/00(05) | Hubble Fellowship at ASU for Eric Richards |
| HST/GO-8203 | 68,748 | Odewahn | 07/99-06/00(10) | Morphological Luminosity Function of A868 |
| HST/GO-8260 | 107,845 | Windhorst | 07/99-06/00(60) | A STIS search for the H-edge of the Universe |
| HST/AR-8765 | 32,682 | Chiarenza | 07/00-06/01(10) | Mid-UV structure of nearby early-type gxys |
| HST/AR-8768 | 49,796 | Windhorst | 07/00-06/01(20) | The morphological mix of faint radio sources |
| HST/GO-8645 | 99,797 | Windhorst | 07/00-06/01(70) | Mid-UV morphology survey of nearby galaxies |
| Sub-total | 1,951,721 | <i>(Grants Funded for FY≤01)</i> | | |

(Continued on next page)

Notes:

¹ Award amounts are totals received by or approved for my group at ASU, and reflect ASU's part of the project only.

² Percentage effort is fraction of research time spent by Windhorst on each funded project, as active in each FY.

³ Administrative PI for this project at ASU is Rogier Windhorst. Fellowship was for Eric Richards.

1.a External funding of Windhorst's research projects at ASU (continued)

| Source/Grant No. | Total \$ ¹ | PI/ <i>Status</i> : | Period(% effort) ² | Project title |
|--|------------------------|---|-------------------------------|--|
| <i>Grants Funded between FY02≤FY≤10:</i> | | | | |
| HST/GO-9066 | 117,190 | Windhorst | 07/01-06/03(30) | Closing in on the Hydrogen Reionization edge |
| HST/GO-9124 | 108,146 | Windhorst | 07/01-06/03(30) | Mid-UV morphology survey of nearby irregulars |
| HST/GO-9174 | 12,357 | Chapman | 07/01-06/02(40) | Optically faint radio sources and protogalaxies |
| AAS/Travel | 1,430 | Windhorst | 07/02-06/03(05) | Natural Confusion Limit for NGST and SKA |
| NASA/JWST | 1,290,390 ³ | Windhorst | 07/02-06/14(35) | Interdisciplinary Scientist for the JWST |
| HST/GO-9824 | 80,535 | Windhorst | 07/03-06/04(25) | NICMOS SNAPshot survey of nearby galaxies |
| HST/AR-9955 | 22,497 | Windhorst | 07/03-06/04(15) | Archival zodiacal background: KBO constraints |
| HST/GO-9892 | 73,195 | Jansen | 07/03-06/04(05) | H α SNAPshots of Nearby Galaxies |
| HST/GO-9793 | 10,970 | Malhotra | 07/03-06/04(05) | Grism-ACS program for extragalactic science |
| HST/GO-9780 | 43,671 | H.J. Yan | 07/03-06/04(15) | Nic3 imaging of z \simeq 6 objects in a deep acs field |
| HST/AR-10298 | 48,733 | Cohen | 07/04-06/05(10) | Structural evol. of galaxies in GOODS & UDF |
| HST/GO-10180 | 130,996 | Corbin | 07/04-06/05(20) | ultracompact blue dwarfs: local galaxy form. |
| GALEX/1036 | 30,000 | Windhorst | 07/04-06/05(10) | GALEX Far-UV Imaging of Nearby Irregulars |
| Banner/ASU | 69,489 ⁴ | Windhorst | 07/04-06/05(10) | Classifying Neurons in Pre-Diabetic Patients |
| TGEN/ASU | 15,660 ⁵ | Windhorst | 07/04-06/05(10) | Classifying Cancer Cells in various Tumors |
| NASA/GSFC | 34,913 | Morse | 07/04-06/05(05) | HORUS: High Orbit Ultraviolet-Visible Satellite |
| NASA/JFPF | 72,000 | Straughn | 07/05-06/08(05) | Graduate Fellowship: Tracing Galaxy Assembly |
| HST/GO-10530 | 41,829 | Malhotra | 07/05-06/06(40) | Probing Evolution & Reionization by Spectra |
| Banner Health | 19,865 | Windhorst | 07/05-06/06(20) | Classifying Neurons in Pre-Diabetic Patients |
| HST/ED14-975 | 50,173 | Windhorst | 01/06-06/07(30) | Cycle 14 EPO project: Hubble at Hyperspeed |
| HST/AR-10974 | 50,000 | Ryan | 07/06-06/07(25) | Unresolved Stellar Populations in the HUDF |
| HST/GO-10843 | 29,257 | Corbin | 07/06-06/07(10) | Deep imaging of extremely metal-poor galaxies |
| NASA/ADP | 77,687 | Cohen | 07/07-06/08(15) | SEDs and Ages of Weak AGN Hosts |
| NASA/ADP | 69,237 | Windhorst | 07/07-06/08(15) | Multi- λ Study of Nearby Late-type Galaxies |
| HST/AR-11287 | 85,348 | Windhorst | 07/07-06/08(10) | Fundamental Limitations in Deep HST Fields |
| HST/AR-11258 | 179,935 | Jansen | 07/07-06/08(20) | Reprocessing all STIS Side-2 CCD data |
| DOE/C10581A | 26,400 | Windhorst | 07/07-06/08(05) | Concept Study for JDEM DESTINY Mission |
| HST/DD-11359 | 291,487 | Windhorst | 07/08-06/12(35) | Wide Field Camera 3 Early Release Science |
| Banner Health | 15,416 | Herman | 09/08-08/09(10) | Classifying Neurons in Pre-Diabetic Patients |
| NASA/ASMCS | 105,335 | Scowen | 02/08-12/09(20) | The Star-Formation Observatory |
| HST/GO-11702 | 56,866 | Yan | 07/09-06/10(05) | High Redshift Galaxy WFC3 Parallel Survey |
| HST/AR-11772 | 59,131 | Ryan | 07/09-06/10(05) | The Epoch Dependent Major Merger Rate |
| NASA/ADP | 328,277 | Windhorst | 12/09-06/12(15) | Seyfert/AGN—Starformation Connection |
| Swift/6090606 | 20,000 | Windhorst | 07/09-06/10(05) | A Census of Lyman- α Blobs at z=0.6 |
| Sub-total | 5,620,136 | <i>(Grants Funded for FY≤10)</i> <i>(Continued on next page)</i> | | |

Notes:

- ¹ Award amounts are totals received at or requested by my group at ASU, and reflect ASU's part of the project only.
- ² Percentage effort is fraction of research time spent by Windhorst on each funded project, as active in each fiscal year. Approximately this fraction of time is spent on each project during the academic year, as well as during the summers.
- ³ This 14-year (FY01-FY14) NASA grant supports my work as Interdisciplinary Scientist for the Webb Telescope (JWST), launched in Dec. 2021. It comes in installments of about 100,000 \$ per FY, not including the ASU match.
- ⁴ This is the ASU part of a larger grant between Good Samaritan Hospital (Banner Health) and ASU.
- ⁵ This is the ASU part of a larger grant between the Translational Genomics Research Institute (TGEN) and ASU.

1.a External funding of Windhorst's group research projects at ASU (continued)

| Source/Grant No. | Total \$ ¹ | PI/ <i>Status</i> : | Period(% effort) ² | Project title |
|--|-----------------------|-----------------------------------|-------------------------------|---|
| <i>Grants Funded between FY10≤FY≤21:</i> | | | | |
| HST/GO-12286 | 78,659 | Yan | 07/10-06/11(15) | High Redshift Galaxy WFC3 Parallel Survey |
| HST/GO-12332 | 58,379 | Windhorst | 07/10-06/11(15) | WFC3/IR Imaging of z=6 QSO Host Galaxies |
| HST/GO-12190 | 16,690 | Koekemoer | 07/11-06/12(10) | WFC3/IR Spectra of High-z Black Holes |
| HST/HF-51291 | 321,081 | Jiang | 07/11-06/14(10) | Hubble Fellowship at ASU for Dr. L. Jiang |
| JPL/1444481 | 39,641 | Jiang | 07/11-06/12(10) | Physical Properties of 5.7 \lesssim z \lesssim 7 SDF galaxies |
| HST/GO-12616 | 104,455 | Jiang | 07/12-06/13(10) | Near-IR imaging of z \gtrsim 6 SDF galaxies |
| HST/GO-12500 | 34,350 | Kaviraj | 07/12-06/13(05) | WFC3 UV studies of SAURON galaxies |
| NASA/ADP | 380,936 | Jansen | 07/12-12/13(10) | Spatially-resolved galaxy extinction Corrections |
| HST/GO-12613 | 69,353 | Jahnke | 07/12-06/13(10) | Do mergers trigger z \simeq 2 black-hole growth? |
| Swift/8110151 | 20,000 | Windhorst | 07/12-06/13(05) | Follow-up of Lyman- α Blobs at z=0.6 |
| HST/GO-12332 | 42,870 | Windhorst | 07/12-06/13(05) | WFC3/IR imaging of z=6 QSO Host Galaxies |
| HST/GO-12974 | 152,152 | Mechtley | 07/12-06/14(20) | WFC3/IR imaging of uv-faint z=6 QSO hosts |
| HST/AR-13241 | 124,221 | Cohen | 07/13-06/14(10) | Pixel-by-pixel Resolved Stellar Populations |
| HST/AR-13266 | 11,676 | Ryan | 07/13-06/14(30) | Distant Ultracool-Dwarfs from WISPS, 3DHST |
| HST/AR-13364 | 52,469 | H. Kim | 07/13-06/14(05) | ExtraGalactic UV Survey (Admin PI) |
| HST/EO-13241 | 58,199 | Windhorst | 01/14-09/15(10) | 3D-IMAGINE: AST 100 Classes for the Blind |
| NASA/JWST | 295,555 ³ | Windhorst | 10/14-09/16(50) | Galaxy Assembly and First Light with JWST |
| HST/AR-13877 | 109,971 | Windhorst | 10/14-09/15(25) | Project ALCATRAZ: archival Ly-cont. studies |
| HST/GO-13779 | 57,603 | Malhotra | 10/14-09/15(15) | Faint Infrared Grism Survey (FIGS) |
| HST/GO-14262 | 93,398 | Jahnke | 10/15-09/16(20) | Fast growing z \simeq 2 black holes by mergers? |
| JWST/NIRCam | 50,000 | Windhorst | 10/15-03/16(10) | JWST CryoVac 3 Shifts & Test Data Analysis |
| NASA/JWST | 506,896 ³ | Windhorst | 10/16-09/18(50) | Galaxy Assembly and First Light with JWST |
| HST/AR-14591 | 103,735 | Windhorst | 10/16-09/18(10) | Project ALCATRAZ2: Escaping LyC Radiation |
| HST/GO-15137 | 76,227 | Windhorst | 10/17-09/18(10) | z>6 Galaxies with Extremely Blue UV Slopes |
| HST/GO-15278 | 286,026 | Jansen | 10/17-09/19(30) | HST UVis imaging of JWST time-domain field |
| NASA/JWST | 262,821 ³ | Windhorst | 10/18-09/19(50) | Galaxy Assembly and First Light with JWST |
| HST/GO-15647 | 139,953 | Teplitz | 10/18-09/21(10) | UVCANDELS: UV Legacy Survey Fields |
| HST/GO-15187 | 89,289 | Tilvi | 10/18-09/20(02) | Confirmation of the Most Distant Quasar |
| NASA/JWST | 301,084 ⁴ | Windhorst | 10/19-09/20(50) | Galaxy Assembly and First Light with JWST |
| HST/GO-15810 | 932,133 | Windhorst | 01/20-12/22(30) | SKYSURF: All-Sky EBL & Zodi Constraints |
| NASA/JWST | 327,582 ⁴ | Windhorst | 10/20-09/21(50) | Galaxy Assembly and First Light with JWST |
| Sub-total | 10,817,540 | (Grants Funded for FY \leq 21) | | |
| <i>(Continued on next page)</i> | | | | |

Notes:

- ¹ Award amounts are totals received at or requested by my group at ASU, and reflect ASU's part of the project only.
- ² Percentage effort is fraction of research time spent by Windhorst on each funded project, as active in each fiscal year. Approximately this fraction of time is spent on each project during the academic year, as well as during the summers.
- ³ These NASA grants continued my work as Interdisciplinary Scientist in FY15–FY16 and FY17–FY19 for the James Webb Space Telescope (JWST), launched on Dec. 25, 2021. It came in installments of about 150–250 k\$ per FY.
- ⁴ These NASA grants continued my work as Interdisciplinary Scientist in FY20–FY21 for the James Webb Space Telescope (JWST), launched on December 25, 2021. It comes in installments of about 300–325 k\$ per FY.

1.a External funding of Windhorst's group research projects at ASU (continued)

| Source/Grant No. | Total \$ ¹ | PI/Status: | Period(% effort) ² | Project title |
|--|-----------------------|--|-------------------------------|---|
| <i>Grants Funded between FY21≤FY≤24:</i> | | | | |
| HST/GO-16252 | 163,948 | Jansen | 10/20-09/22(05) | Treasurehunt: Cy 28 Imaging of the JWST TDF |
| NSF/Ast1907493 | 191,167 | Hunter | 10/20-09/23(05) | Starformation at low metallicity (for H. Archer) |
| NASA/JWST | 330,819 | Windhorst | 10/21-09/22(40) | Galaxy Assembly and First Light with JWST |
| HST/GO-16604 | 96,377 | Carleton | 01/22-12/23(02) | Resolved Stellar Populations in Dwarf Galaxies |
| HST/GO-16605 | 98,900 | Carleton | 01/22-12/23(03) | HST: Hot or Cold? WFC3 Thermal Foreground |
| HST/GO-16793 | 251,833 | Jansen | 01/22-12/23(10) | Treasurehunt: Cy 29 Imaging of the JWST TDF |
| HST/GO-16621 | 291,577 | Koekemoer | 01/22-12/25(03) | Supercal: AR Legacy of HST Cosmology Fields |
| NASA/JWST | 342,514 | Windhorst | 10/22-09/23(60) | Galaxy Assembly and First Light with JWST |
| JWST/GO-01813 | 171,129 | Marshall | 01/23-12/25(02) | Unveiling Stellar Light from z~6 QSO Hosts |
| JWST/DD-4446 | 9,965 | Frye | 04/23-09/24(02) | SN H0pe: H ₀ , Time Delay of Lensed z=1.78 SN |
| NASA/JWST | 302,693 | Windhorst | 10/23-09/24(60) | Galaxy Assembly and First Light with JWST |
| HST/GO-17068 | 125,254 | Archer | 10/23-09/25(02) | Young Stars in the Dwarf Irregular Galaxy WLM |
| JWST/GO-2883 | 83,133 | F. Sun | 10/23-09/25(05) | MAGNIF: NIRCам Grism in Frontier Fields |
| NRAO/ALMA | 27,317 | N. Foo | 01/24-12/25(03) | ALMA images of Lensed Dusty SF Webb Galaxies |
| HST/GO-17563 | 80,188 | Ryan | 10/24-09/26(03) | HST Cy 31 AR project ArchExtract (pending) |
| JWST/AR-4695 | 699,537 | Windhorst | 10/24-09/27(50) | JWST Cycle 3 AR Legacy project DARK-SKY |
| NASA/JWST | 307,290 | Windhorst | 10/24-09/25(30) | Galaxy Assembly and First Light with JWST |
| JWST/DD-6549 | 11,992 ³ | Pierel | 01/24-12/25(02) | SN Encore: H ₀ , Time Delay of Lensed z=1.9 SN |
| <i>Grants Approved or Pending for FY≥25:</i> | | | | |
| HST/GO-17624 | 25,000 ³ | Smith | 01/25-12/26(02) | Treasuretrove: BH & Bulge Growth: NEP TDF |
| JWST/GO-Cy4 | 400,000 ³ | Various | 01/24-12/25(02) | SN Encore: H ₀ , Time Delay of Lensed z=1.9 SN |
| Total | 14,828,173 | (Grants Funded, Approved, or Pending as of FY25) | | |

Notes:

¹ Award amounts are totals received at or requested by my group at ASU, and reflect ASU's part of the project only.

² Percentage effort is fraction of research time spent by Windhorst on each funded project, as active in each fiscal year. Approximately this fraction of time is spent on each project during the academic year, as well as during the summers.

³ NASA proposals pending peer-review for HST Cycle 32 or JWST Cycle 4 (FY≥25), budgets to be determined in Phase II.

1.b Internal Funding of Windhorst's Research Projects at ASU

| Source/Grant No. | Total \$ ¹ | ASU-PI | Period(% effort) ² | Project title |
|------------------|-----------------------|------------------------|-------------------------------|--|
| VP-Res/CLAS | 50,333 | Windhorst | 07/87-06/89(40) | Studies of faint radio galaxies [startup |
| Phys. Dept. | 20,333 | Windhorst | 07/88-06/90(40) | Studies of faint radio galaxies -funds] |
| RIA/Phys match | 5,394 | Windhorst | 07/88-06/90(40) | Studies of faint radio galaxies |
| Grad. College | 10,500 | Windhorst | 07/88-06/89(10) | Studies of distant protogalaxies |
| CLAS Minigrant | 500 | Windhorst | 07/88-06/89(10) | Studies of distant protogalaxies |
| CLAS/Phys match | 6,420 | Windhorst | 07/88-06/90(10) | Studies of distant protogalaxies |
| FGIA | 3,000 | Windhorst | 11/88-06/89(30) | UV spectra of nearby/high-z radio gxys |
| Grad. College | 10,500 | Windhorst | 07/89-06/90(30) | UV spectra of nearby/high-z radio gxys |
| Grad. College | 10,500 | Windhorst | 07/90-06/91(40) | Studies of faint radio gxys/clustering |
| CRAY Inc. | 140 hrs | Windhorst ³ | 07/90-06/91(40) | Studies of faint radio gxys/clustering |
| VP/Res match | 9,636 | Windhorst | 10/90-09/91(30) | The US ROSAT Deep X-ray Survey Part I |
| CRAY Inc. | 300 hrs | Windhorst ³ | 10/91-09/92(30) | Morphology of gE radio galaxies (Cy 1) |
| VP/Res match | 27,631 | Windhorst | 10/91-09/92(30) | Morphology of gE radio galaxies (Cy 1) |
| VP/Res match | 8,750 | Windhorst | 10/92-06/94(30) | UV-spectral evol of gE's to z=0.5 (Cy 2) |
| CLAS/Physics | 7,000 | Windhorst | 07/94-06/95(45) | PC imaging of a collapsing z=2.4 galaxy |
| VP/Res match | 7,000 | Windhorst | 07/94-06/95(50) | The HST Medium Deep Survey (Cycle 4) |
| CLAS/Physics | 10,000 | Windhorst | 07/95-06/96(50) | WFPC2 imaging of a z=2.4 galaxy cluster |
| VP/Res match | 9,000 | Windhorst | 07/95-06/96(45) | The HST Medium Deep Survey (Cycle 5) |
| CLAS/Physics | 3,766 | Windhorst | 07/96-06/97(30) | WFPC2 Ly-alpha imaging of z=2.4 clusters |
| VP/Res match | 3,600 | Windhorst | 07/96-06/97(45) | The WFPC2 B-Band parallel survey (Cy 6) |
| CLAS/Physics | 2,525 | Windhorst | 07/97-06/98(25) | NIC2 imaging of radio sources with R>29 |
| CLAS/Physics | 2,525 | Windhorst | 07/97-06/98(30) | NIC2 imaging of the oldest z=1.5 gxys |
| VPR/CLAS/Dept | 22,400 | Windhorst | 07/98-06/99(25) | Medium-band imaging of faint galaxies: filters |
| VPR/CLAS/Dept | 5,000 | Windhorst | 07/00-06/01(70) | Mid-UV HST morphology of nearby galaxies |
| VPR/CLAS/Dept | 5,181 | Windhorst | 07/00-06/01(25) | Mid-UV morphology survey of nearby irregulars |
| VPR/CLAS/Dept | 6,031 | Windhorst | 07/00-06/01(30) | Closing in on the Hydrogen Reionization edge |
| VPR/CLAS/Dept | 262,202 | Windhorst | 07/02-06/14(40) | Interdisciplinary Scientist for JWST |
| VPR/CLAS/Dept | 69,489 | Windhorst | 07/04-06/05(10) | Classifying Neurons in Pre-diabetic Patients |
| ASU/CLAS/Dept | TBD | Windhorst | 07/08-06/06(13) | ASU Presidential Cosmology Initiative |
| ASU/CLAS/SESE | 20,000 | Windhorst | 01/13-12/14(20) | 3DIMAGINE: STEM classes for blind students |

Notes:

¹ Award amounts are totals received at or requested by ASU, and reflect ASU's part of the project only.

² Percentage effort is fraction of research time spent by Windhorst on each funded project, as active in each fiscal year.

³ In the early 1990's, the ASU CRAY X/MP time was equivalent to about \$ 300 per hour.

1.c Patents of Windhorst's research group at ASU

| Patent No. | Date filed | PI | Patent title |
|-------------------------------------|------------|-----------|--|
| US Patent office # 21304US01 | 08/09 | Windhorst | Using Hubble Space Telescope Object Finding and Classification Software as Detection Method of Early-stage Diabetes Mellitus Type II |
| US Patent office #PCT/US2013/070969 | 11/12 | Hongyu Yu | A Responsive Dynamic 3D Tactile Display System using Hydrogel |
| #US 9,711,065 B2 | | 07/17 | Publ.#: WO2014081808 A1; International Classif: G06F3/14, G06F3/01 United State Patent Office |

APPENDIX 2. SERVICE

2.a Astronomy Committees and Other Service to the Astronomical Community

| Period | Committee |
|-----------|--|
| 1986-1989 | Adjunct to the Hubble Space Telescope Wide Field/Planetary Camera Instrument Definition Team (PI: J. Westphal, Caltech). |
| 1987-1990 | Adjunct to the Columbus Telescope Scientific Advisory Committee (Chair: R. Kron). |
| 1986-1995 | Co-I of the Hubble Space Telescope Medium-Deep Survey (PI: Griffiths, STScI). The MDS was one of the three long-term Key Projects on HST in Cycles 1–5. |
| 1991-1995 | Hubble Space Telescope Users Committee (Chair: J. Hutchings). STUC Liaison to the STSDAS Users Committee (Chair: C. Christian). |
| 1993 | Review Committee of the HST/WFPC-2 Thermal Vacuum Tests (Chair: K. Horne). |
| 1993-1994 | NASA's HST/STUC Independent Budget Review Committee (Chair: R. Windhorst). Reviewed the entire 10-year 240 M\$/year HST Project budget at GSFC and STScI. |
| 1995 | Hubble Space Telescope Cycle 6 Time Allocation Committee. (Galaxy Panel; Chair: P. T. de Zeeuw). |
| 1991-1994 | Steward Observatory and MMT Time Allocation Committee (Chair: M. Rieke). |
| 1992-1993 | Local Organizing Cmtee of 181 st AAS meeting in Phoenix (Chair: D. Burstein). |
| 1993-1997 | National Radio Astronomy Observatory Users Committee (Chair: R. Brown). |
| 1995-1997 | National Radio Astronomy Observatory VLA Sub-Committee (Chair: J. van Gorkom). |
| 1993-1996 | Oversight Committee for the VLA All-Sky Surveys (Chair: F. Owen). |
| 1997-2001 | Hubble Space Telescope Parallel Working Group (Chairs: F. D. Macchetto & J. Frogel). This Committee is responsible for the planning of the entire set of (simultaneous) HST parallel observations with WFPC2, NICMOS, STIS and ACS in Cycles 7–11. |
| 1998 | National Science Foundation CAREER Review Panel (Chair: J. P. Wright). |
| 1999-2005 | Large Binocular Telescope Optical/UV Spectrograph Working Group (Chair: B. Peterson). Oversees design and construction of the Optical/UV Spectrograph on the 11.3 meter LBT. |
| 1999-2009 | Steward Observatory Telescope/Instrument Review Committee (Chair: P. Strittmatter). Reviews overall strategies for Steward Observatory telescope use and instrumentation. |
| 1999 | Hubble Space Telescope Cy 9 Time Allocation Committee (Exgal. Panel; Chair: J. Huchra). |
| 1999-2001 | National Radio Astronomy Observatory: Reviewer for VLA, VLBA, and VLBI interferometers (VLA TAC Chair: M. Goss). |
| 2000-2001 | Steward Observatory and MMT Time Allocation Committee (Chair: J. Holberg). |
| 2001-2002 | Steward Observatory and Magellan Time Allocation Committee (Chair: D. Zaritsky). |
| 2002-2003 | Steward Observatory and Magellan Time Allocation Committee (Chair: R. Windhorst). |
| 2000-2001 | Hubble Space Telescope – Hubble Fellowship Selection Panel (Chair: A. Filippenko). |
| 2000-2001 | Scientific Organizing Cmtee; STScI ACS Surveys Workshop (Chair: S. Beckwith). |
| 2001 | NSF Peer Review (Clusters and Large Scale Structure Panel; Chair: R. Barvainis). |
| 2001 | Hubble Space Telescope Time Cy 11 Allocation Cmtee (Exgal. Panel; Chair: R. Windhorst). |
| 2001-2003 | National Optical Astronomy Observatories Time Allocation Cmtee (Chair: D. de Young). |
| 2002 | Scientific Organizing Cmtee; Hubble Space Telescope treasury workshop (S. Beckwith). |
| 2003 | Hubble Space Telescope Cycle 12 Time Allocation Cmtee (Cosmo. panel; Chair: R. Green). |
| 2004 | Spitzer Space Telescope Cycle 1 Review (Cosmology panel; Chair: M. Strauss). |
| 2003-2004 | Scientific Organizing Cmtee; South Africa Galaxy Workshop (Chair: D. Block). |

2.a Astronomy Committees and Other Service to the Astronomical Community (continued)

| Period | Committee |
|---|--|
| 1998-present | Scientific Oversight Committee (SOC) member of HST's Wide Field Camera 3 (WFC3). Supervises the design and construction of this camera launched and installed into HST in May 2009, and is planned to be operational through 2020 (Chair: R. O'Connell). This is a 120 M\$ project that I am very closely involved with, resulting in about 4 meetings per year in MD, and a considerable amount of document writing for NASA. I do this to help assure a great science future for HST well into the 2020's, and to be actively involved with the James Webb Space Telescope after its 2021 launch. I led part II of the Early Release Science Program (ERS) that is using the HST/WFC3 right after its May 2009 launch to carry out a panchromatic UV-optical-near-IR survey of cosmic star-formation at intermediate redshifts ($z \simeq 1-5$). |
| 1999-2008 | WFC3 SOC Filter Subcommittee (Chair: J. Trauger). |
| 1999-2008 | WFC3 SOC CCD-Detector Subcommittee (Chair: G. Luppino). |
| 2000-2008 | WFC3 SOC Post-Observations Subcommittee to design WFC3 Pipeline (Chair: C. Lisse). |
| 2002-2008 | WFC3 SOC Subcommittee for Science Calibration and Thermal Vacuum (Chair: N. Reid). |
| 2002-2004 | Scientific Advisory Committee of the HST Ultra Deep Field Survey (Chair: S. Beckwith). |
| 2001 | Consultant for the Next Generation Space Telescope (NGST) project. Specific focus on predicting galaxy morphology as seen by NGST at redshifts $z=1-20$, and on optimizing its performance for Hydrogen reionization edge studies at $z=6-20$. |
| 2002-present (planned to run through 2025) | Interdisciplinary Scientist for the James Webb Space Telescope (JWST) — formerly known as Next Generation Space Telescope — the 6.5 meter sequel to the Hubble Space Telescope. JWST is built by Northrop-Grumman Space Technologies (formerly TRW), which was successfully launched in Dec. 2021. My responsibilities are to assist the JWST Project with defining the best JWST science, help define the optimal telescope and instrument performance, simulate JWST's actual performance, and follow the design, integration and testing phases of JWST. With JWST, we will carry out a vigorous research JWST program in 2022–2025 using our 110 guaranteed hours of observing time, in which I plan to study the structure and evolution of galaxies at redshifts $z=1-6$, search for the first galaxies and star clusters at $z=6-20$, and study the reionization epoch when the first stars and star clusters started shining. Funding to ASU by NASA HQ is over 250 k\$/year through 2025. The JWST Flight Science Working Group (SWG) chair is Dr. John C. Mather (NASA/GSFC), senior Project Scientist and Nobel Laureate. |
| 2004-2005 | Co-Chair, James Webb Space Telescope Science Working Group (Chair: John Mather) |
| 2002-2005 | Co-Investigator of the NASA Roadmap Vision study proposal for Generation-X. This is the next generation X-ray telescope with $\gtrsim 100 \text{ m}^2$ collecting area and $\lesssim 0''.1$ resolution, which is being studied by NASA for launch after 2020. PI is Dr. Roger Brissenden from the Harvard Smithsonian Center for Astrophysics. My role is to make the connection between Generation-X and JWST, address the role of (obscured) AGN in the reionization epoch at redshifts $z \gtrsim 6$ and during subsequent galaxy assembly, and the natural confusion limit. |
| 2006 | Reviewer for the NASA Postdoctoral Program (NPP) c/o Oak Ridge Associated Universities |
| 2006 | NASA ATP/Beyond Einstein Panel Review (Chair: M. Stiavelli). |
| 2008 | Reviewer for the NASA Postdoctoral Program (NPP) c/o Oak Ridge Associated Universities |
| 2008 | Hubble Space Telescope Cycle 16S Time Allocation Cmtee (Cosmo. panel; Chair: N. Reid). |
| 2009-2010 | Scientific Organizing Cmtee; UT Workshop on "The First Stars & Galaxies" (V. Bromm) |
| 2009-2015 | Steward Observatory and Magellan Time Allocation Committee (Chair: D. Zaritsky). |

2.a Astronomy Committees and Other Service to the Astronomical Community (continued)

| Period | Committee |
|--------------|--|
| 2003-2010 | Co-Investigator of the science team of the Star-Formation Camera (“SFC”), formerly called the ORION and HORUS mission concepts. SFC is a concept study for a wide-field UV–optical Camera on the 4 G\$ 4-meter UV-optical space telescope “THEIA”. The main science focus of THEIA/SFC is to study star-formation over cosmic time, starting in our own Galaxy, the neighboring Magellanic Clouds, in other nearby galaxies up to the most distant galaxies. With the arrival of the 2.4 meter NRO spare mirrors in 2012, the HORUS mission (PI Dr. Paul Scowen, ASU) has been revived via the NASA SALSO opportunity in 2012/2013. My role in HORUS was to help define and write the nearby and far extragalactic science cases, together with Dr. Rolf Jansen (ASU). is the HORUS Project Scientist. Starting in 2014, this work is being refocused to position the community in the 2020 Decadal for a large UV-optical–near-IR sequel (e.g. a 11-16 meter HDST or ATLANTIS) to start after HST, JWST and WFIRST. |
| 2010 | Hubble Space Telescope Cycle 18 Time Alloc. Cmtee (TAC; Chair: N. Bahcall) |
| 2010 | Hubble Space Telescope Cycle 18 Time Alloc. Cmtee (Galaxies panel; Chair: R. Windhorst) |
| 2010-2012 | ESA Herschel Observatory Time Allocation Cmtee (Cosmology panel; Chair: G. Zamorani) |
| 2012 | Spitzer Space Telescope Cycle 9 TAC (Cosmology large proposal panel; Chair: A. Dey) |
| 2012 | Spitzer Space Telescope Cycle 9 TAC (Cosmology small proposal panel; Chair: S. Malhotra) |
| 2012 | Scientific Organizing Cmtee, IAU Symp 289: Physics of Cosmic Distances (Chair: R. deGrijs) |
| 2014 | Scientific Organizing Cmtee, Yale Hubble Frontier Fields Workshop (Chair: P. Natarajan) |
| 2014–present | Copag Science Analysis Group 7: Science Enabled by HST/JWST Overlap (Chair: J. Green) |
| 2014–present | Copag Science Analysis Group 9: Spitzer observations supporting JWST (Chair: D. Calzetti) |
| 2014–present | Copag Science Interest Group 2: Science & Technology needs for UV/Vis (Chair: P. Scowen) |
| 2014–present | NRAO VLA All Sky Survey Review Panel of the 5500-hr VLASS (Chairs: A.Baker; G.Bower) |
| 2015–present | Hubble Space Telescope Cycles and Mid-Cycle Time Alloc. Cmtees (Chair: B. Peterson) |
| 2015–present | Co-Investigator of the NASA Wide Field Infrared Survey Telescope (WFIRST) Science Investigation Team (SIT) to study Cosmic Dawn (PI: Dr. J. Rhoads, NASA GSFC). The WFIRST Cosmic Dawn team is investigating what survey parameters and science requirements this next NASA Flagship mission — that comes after the Hubble and Webb Space Telescopes — needs to have to survey the entire sky in the near-IR after 2025. The main science goal of the WFIRST mission is to accurately measure the main cosmological parameters. Our ASU team specifically focuses on how the first galaxies and quasars reionized the universe during the first billion years after the Big Bang. |
| 2016–present | Co-Investigator of the JPL SPHEREx MIDEX mission proposed to NASA. SPHEREx is an all-sky near-infrared spectroscopic survey addressing all three NASA astrophysics science goals. It probes the origin of the Universe by improving constraints on inflationary non-Gaussianity by more than 10× through a large-volume galaxy redshift survey. SPHEREx investigates the origin of water and biogenic molecules from interstellar ices in the early phases of planetary system formation. SPHEREx charts the origin and history of galaxy formation, from light produced by the first galaxies that ended the cosmic dark ages to the present day. SPHEREx provides a rich public spectral archive for diverse investigations ranging from X-ray astronomy to exoplanet characterization. My role in SPHEREx is to use it data to select the best lensing clusters for JWST. |
| 2018-2022 | ASU Founders Representative at the Giant Magellan Telescope (GMT) (Chair: R. Shelton) |

2.b Department, College and University Committees and Service

| Period | Committee |
|--|---|
| Department Committees and Other Departmental Service: | |
| 1988-1991 | Department's Liaison for Public Relations (Chair: R. Windhorst). |
| 1988-1989 | Graduate Exam Committee (Chair: R. Marzke). |
| 1988-1990 | Personnel Committee (Chair: R. Jacob). |
| 1989-1990 | Astronomy Faculty Search Committee (Chair: H. Voss). |
| 1989-1991 | Department Computer Advisory Committee (Chair: R. Windhorst). |
| 1989-1991 | Refurbishing Committee for H-wing (Chair: R. Hanson). |
| 1990-1991 | Graduate Program Committee (Chair: D. Benin). |
| 1991-1993 | Budget and Policy Committee (Chair: S. Wyckoff). |
| 1994-2000 | (Non-voting on) Budget and Policy Committee (Chair: H. Voss). |
| 1992-1993 | Undergraduate Program Committee (Chair: J. Comfort). |
| 1992-1993 | Bylaws Committee (Chair: J. Comfort). |
| 1996 | Computer System Manager Search Committee (Chair: B. W. Tillery). |
| 1994-2000 | Associate Department Chair (Chair: H. Voss). |
| 1998-1999 | Colloquium Committee (Chair: R. Windhorst). |
| 1999-2000 | Colloquium Committee (Chair: N. Herbots). |
| 2001-2002 | Graduate Exam Committee (Chair: J. Drucker). |
| 2001-2003 | Department Computer Committee (Chair: J. Shumway). |
| 2002-2006 | Braeside Observatory Time Allocation Committee (Chair: R. Windhorst). |
| 2002-2003 | Astrobiology Search Committee (Chair: J. Hester). |
| 2002-2003 | Undergraduate Advisor (Chair: R. Jacob). |
| 2002-2004 | Personnel Committee (2003 Chair: R. Windhorst). |
| 2003-2005 | Space Committee (Chair: J. Dow). |
| 2003-2004 | Braeside Observatory Manager Search Cmtee (Chair: P. Scowen). |
| 2003-2004 | Academic Research Scientist Search Cmtee (Chair: R. Windhorst). |
| 2003-2004 | Postdoctoral Research Associate Search Cmtee (Chair: R. Windhorst). |
| 2004-2005 | Extragalactic/Theory Faculty Search Committee (Chair: R. Windhorst). |
| 2004-2005 | New Physics Steering Committee (Chair: P. Bennett). |
| 2004-2006 | Undergraduate Program Committee (Chair: M. Treacy). |
| 2005-2006 | Physics Graduate Curriculum Committee (Chair: T. Newman). |
| 2005-2006 | Physics Colloquium Committee (Chair: M. Treacy). |

2.b Department, College and University Committees and Service (continued)

| Period | Committee |
|---|--|
| School of Earth and Space Exploration (SESE) Committees and Service: | |
| 2005-2006 | SESE Astrophysics Graduate Program Proposal (with R. Greeley). |
| 2005-2006 | SESE Founding Director Search Committee (Chair: D. Young). |
| 2005-2006 | SESE Engineering Faculty Search Committee (Chair: P. Christensen). |
| 2005-2006 | Bylaws Committee for School of Earth and Space Exploration (Chair: E. Stump). |
| 2006-2008 | Personnel Committee for School of Earth and Space Exploration (Chair: T. Sharp). |
| 2008-present | Co-Director, ASU Cosmology Initiative, School of Earth & Space Exploration |
| 2008-2009 | Cosmology Theory Faculty Search (Chair: L. Krauss). |
| 2009-2010 | Observational Cosmology Faculty Search (Chair: R. Windhorst). |
| 2009-2010 | Instrumental Cosmology Faculty Search (Chair: R. Windhorst). |
| 2010-2011 | Observational Cosmology Faculty Search (Chair: R. Windhorst). |
| 2010-2011 | Experimental Cosmology Faculty Search (Chair: L. Krauss). |
| 2009-2012 | Museum and Planetarium Committee (Chair: S. Semken). |
| 2009-2013 | SESE Promotion & Tenure Committee (Chair: R. Windhorst). |
| 2012-2014 | SESE Awards Committee (Chair: R. Windhorst). |
| 2013-2018 | CLAS Senator for SESE (excluding a 2014–2015 sabbatical) |
| 2018-2021; 2024- | ASU Academic Senator for SESE |
| 2020-2023 | SESE Annual Evaluation Committee (Chair: E. Garnero) |
| 2023-present | SESE Undergraduate Committee (Chair: A. Heimsath) |
| College Committees and Other College Service: | |
| 1990-1992 | College Liaison for Academic Computing (Chair: R. Windhorst). |
| 1990-1992 | Research Computing Subcommittee of Academic Computing Advisory Cmtee (ACAC). |
| 1995-present | The NASA Arizona Space Grant Consortium CLAS Sub-Committee (Chair: T. Sharp). |
| 1997-1998 | The Dean's Faculty Advisory Council (Chair: N. Russo). |
| 1998-1999 | The Dean's Faculty Advisory Council (Chair: T. Richards). |
| 1999-2000 | The Dean's Faculty Advisory Council (Chair: R. Windhorst). |
| 2000-2001 | Post Tenure Review Committee (Chair: R. Windhorst). |
| 2013-2018 | CLAS Senate (2017–2018 President: R. Windhorst) |
| University Committees and Other University Service: | |
| 1990-1992 | Academic Computing Advisory Committee (ACAC; Chair: A. Philippakis). |
| 1987-1993 | DEC Users Group (Chair: N. Armann). |
| 1988-1992 | CRAY Users Group (Chair: S. West). |
| 1995-present | The NASA Arizona Space Grant Consortium Steering Committee (Chair: T. Sharp). |
| 2007-2009 | Regents' Professors Selection Committee (Chair: Prof. R. Denhardt). |
| 2006-2013 | Regents' Advisory Group (Chair: ASU Provost Dr. E. Capaldi). |
| 2011-2015 | University Faculty Achievement Awards Committee (Chair: A. Blakemore). |
| 2006-present | ASU Academic Council (Chair: ASU President Dr. M. Crow). |
| 2006-present | ASU Federal Relations Working Group (Chair: S. Hadley; M. Salmon) |
| 2018-2021; 2024- | ASU Academic Senate (President: Prof. S. Levinson; E. Kawam). |
| 2018-2020; 2024- | ASU Senate Facilities Committee (Chair: Prof. B. Welfert). |

2.c Refereeing research papers and proposals

| Journal/Agency | Approx. Number Refereed per Year |
|---|-------------------------------------|
| Journal Articles Refereed per year: | |
| Astrophysical Journal + Astrophysical Journal Letters | $\lesssim 2-3$ |
| Astronomical Journal | $\lesssim 1$ |
| Astronomy and Astrophysics (+Letters) | 1 |
| Astrophysics and Space Science | 1 |
| Monthly Notice Royal Astronomical Society | 1-2 |
| Nature/Science | 1 |
| Publ. of the Astron. Soc. of the Pacific | $\lesssim 1$ |
| Academic Publishers (Book Reviews) | 1-2 |
| Grant or Observing Proposals Refereed: | |
| National Science Foundation (1998 and 2001) (each proposal typically few 100 k\$) | 50 |
| National Science Foundation — Referee of Large proposals (including one ~ 120 M\$ proposal in 2004) | 1/every few yrs |
| Lawrence Livermore National Laboratories (1990's) | 1 |
| Canada National Science/Engineering Research Council (2012, 2014) | 2 |
| Netherlands Organization for Scientific Research (NWO) | 1 |
| Israel Science Foundation (ISF; 2004, 2015) | 1 |
| Canada French Hawaiian Telescope (1996-1998) | 6 |
| National Radio Astronomy Observatory (three times a year in 1990's) | $\sim 50-100$ |
| NASA Hubble Space Telescope (1996, 1999, 2001, 2003, 2008, 2015-2020) | $\lesssim 125$ |
| NASA Spitzer Space Telescope (2004, 2012, 2015) | ~ 100 |
| NASA/STScI Hubble Fellowship Program (2001) | 124 |
| NASA ATP/Beyond Einstein Panel Review (2006) | ~ 50 |
| NASA Postdoctoral Program (2006, 2012, 2014, 2015) | 12 |
| U. S. Civilian Research and Development Foundation (2008) | 1 |
| Canada Foundation for Innovation (CFI; 2012, 2015) | 10 M\$ proposals |
| Steward Observatory Time Allocation Committee (1991-1994; 2000-2003; 2009-2015) | ~ 200 |
| NRAO Very Large Array Sky Survey (9000 hr proposal; 2015) | 1 |
| Other Refereeing Activities: | |
| Ph.D. Dissertations (ASU and for universities abroad) | $\lesssim 4$ |
| Reference letter for ex students and postdocs | ~ 100 |
| Reference for tenure/promotion of candidates worldwide | ~ 12 |

APPENDIX 3. TEACHING

3.a Undergraduate Lecture Courses Taught at ASU

| Course | Year | Title | Student Evaluation ^a Item 10 | Avg. 1-10 | Total nr of Students |
|---------|-----------|---|--|-------------------|-------------------------|
| AST 111 | Fall 88 | Introduction to Solar System Astronomy | 1.92 | 1.77 | 143 |
| AST 111 | Fall 90 | Introduction to Solar System Astronomy | 1.84 | 1.88 | 144 |
| AST 111 | Fall 91 | Introduction to Solar System Astronomy | 1.93 | 1.87 | 243 |
| AST 111 | Fall 92 | Introduction to Solar System Astronomy | – | – ^b | 141 |
| AST 111 | Summer 96 | Introduction to Solar System Astronomy | 1.74 | 1.64 | 057 |
| AST 111 | Fall 97 | Introduction to Solar System Astronomy | 1.80 | 1.80 | 134 |
| AST 111 | Fall 98 | Introduction to Solar System Astronomy | 2.03 | 2.08 | 140 |
| AST 111 | Fall 01 | Introduction to Solar System Astronomy | 1.81 | 1.89 ^c | 140 |
| AST 111 | Fall 03 | Introduction to Solar System Astronomy | 1.98 | 1.87 ^c | 140 |
| AST 111 | Fall 04 | Introduction to Solar System Astronomy | 1.40 | 1.53 ^c | 092 |
| AST 112 | Spring 89 | Introduction to Stars, Galaxies and Cosmology | 1.68 | 1.73 | 134 |
| AST 112 | Spring 92 | Introduction to Stars, Galaxies and Cosmology | – | – ^b | 127 |
| AST 112 | Spring 93 | Introduction to Stars, Galaxies and Cosmology | 2.09 | 2.14 | 130 |
| AST 112 | Spring 96 | Introduction to Stars, Galaxies and Cosmology | 1.97 | 1.90 | 212 |
| AST 112 | Spring 02 | Introduction to Stars, Galaxies and Cosmology | 1.68 | 1.71 ^c | 144 |
| AST 112 | Spring 05 | Introduction to Stars, Galaxies and Cosmology | 2.12 | 2.01 ^c | 200 |

Notes:

^a Teaching evaluation by students on scale of 1–5 (1 being best). Item 10 gives overall rating by students.

^b Student survey was not done because Department changed (temporarily) to reviews every three years.

^c This section contained one or several Barrett Honors College students.

3.a Undergraduate Lab Courses Taught at ASU (continued)

| Course | Year | Title | Student Evaluation ^{a,b} | | Total nr of Students |
|----------|-----------|--------------------------|-----------------------------------|-------------------|----------------------|
| | | | Item 10 | Avg. 1-10 | |
| AST 125 | Fall 87 | Astronomy Lab I | — | — | 043 |
| AST 126 | Spring 88 | Astronomy Lab II | — | — | 049 |
| AST 125 | Fall 89 | Astronomy Lab I | — | — | 140 |
| AST 126 | Spring 90 | Astronomy Lab II | — | — | 208 |
| AST 125 | Fall 94 | Astronomy Lab I | — | — | 309 |
| AST 126 | Spring 95 | Astronomy Lab II | — | — | 352 |
| AST 125 | Fall 95 | Astronomy Lab I | — | — | 350 |
| AST 113 | Fall 05 | Astronomy Lab I | — | — ^c | 384 |
| AST 114 | Spring 06 | Astronomy Lab I | — | — ^c | 384 |
| SES 103 | Fall 06 | Space Exploration Lab I | 1.31 | 1.67 ^c | 024 |
| SES 104 | Spring 07 | Space Exploration Lab II | 2.87 | 1.67 ^c | 024 |
| AST 113 | Fall 08 | Astronomy Lab I | — | — ^c | 384 |
| AST 113 | Fall 09 | Astronomy Lab I | — | — ^c | 550 |
| AST 113 | Fall 10 | Astronomy Lab I | — | — ^c | 550 |
| AST 113 | Fall 11 | Astronomy Lab I | — | — ^c | 550 |
| AST 113 | Fall 12 | Astronomy Lab I | — | — ^{c,d} | 525 |
| AST 113 | Fall 13 | Astronomy Lab I | — | — ^{c,d} | 450 |
| AST 113 | Fall 15 | Astronomy Lab I | — | — ^{c,d} | 432 |
| AST 113 | Fall 16 | Astronomy Lab I | — | — ^{c,d} | 408 |
| AST 113 | Fall 17 | Astronomy Lab I | — | — ^{c,d} | 408 |
| AST 113 | Fall 18 | Astronomy Lab I | — | — ^{c,d} | 408 |
| AST 113 | Fall 19 | Astronomy Lab I | — | — ^{c,d} | 375 |
| AST 113 | Fall 20 | Astronomy Lab I | — | — ^{c,d} | 375 |
| AST 111L | Fall 21 | Astronomy Lab I | — | — ^{c,d} | 375 |
| AST 111L | Fall 23 | Astronomy Lab I | — | — ^{c,d} | 288 |
| AST 114 | Spring 09 | Astronomy Lab II | — | — ^c | 500 |
| AST 114 | Spring 10 | Astronomy Lab II | — | — ^c | 550 |
| AST 114 | Spring 13 | Astronomy Lab II | — | — ^{c,d} | 450 |
| AST 114 | Spring 14 | Astronomy Lab II | — | — ^{c,d} | 425 |
| AST 114 | Spring 16 | Astronomy Lab II | — | — ^{c,d} | 432 |
| AST 114 | Spring 17 | Astronomy Lab II | — | — ^{c,d} | 408 |

Notes:

^a Teaching evaluation by students on scale of 1–5 (1 being best). Item 10 gives overall rating by students.

^b I'm involved in teaching several Lab sections myself, but student survey is only done by the unit for TA's. Faculty peer-reviews of my teaching are on file (with very good to excellent reviews).

^c This section contained one or several Barrett Honors College students.

^d This section used the 3D-tactiles for visually impaired or blind students.

3.b Upper Division and Graduate Courses Taught at ASU

| Course | Year | Title | Student Evaluation ^a | | Total nr of Students |
|-------------|--------------|---------------------------------------|---------------------------------|-------------------|----------------------|
| | | | Item 10 | Avg. 1-10 | |
| AST 422 | Spring 03 | Cosmology | 1.14 | 1.43 ^b | 007 |
| AST 422 | Spring 07 | Cosmology | 2.00 | 1.57 ^b | 006 |
| AST 500 | Fall 95, 06 | Astron. Techniques (w/ Scowen) | 1.75 | 1.83 | 012 |
| AST 598 | Fall 00 | Astron. Techniques (w/ Odewahn) | 2.00 | 1.86 | 007 |
| AST 598 | Spring 97 | Observational Cosmology | 2.13 | 1.94 | 008 |
| AST 598 | Spring 99 | Observational Cosmology | 1.56 | 1.47 | 009 |
| AST 598 | Spring 00 | Extragalactic Astronomy | 2.20 | 2.16 | 005 |
| AST 598 | Fall 02 | Galaxies III: Observational cosmology | 1.25 | 1.28 | 005 |
| AST 533 | Spring 04 | Galaxies III: Observational cosmology | 1.63 | 1.62 | 008 |
| AST 492/592 | 1987-present | Astrophysics Undergrad Research | – | – ^{b,c} | 112 |
| AST 599 | 1987-present | Astrophysics Master Thesis | – | – ^c | 045 |
| PHY 500 | 2008-present | Physics Research Rotation | – | – ^c | 020 |
| AST 792 | 1987-present | Astrophysics Graduate Research | – | – ^c | 056 |
| AST 799 | 1987-present | Astrophysics Ph.D. Dissertation | – | – ^c | 056 |
| AST491/591 | Spring 91 | Astronomy Journal Club | – | – | 012 |
| AST491/591 | Spring 98 | Astronomy Journal Club | – | – | 012 |
| AST491/591 | Fall 99 | Astronomy Journal Club | 1.00 | 1.00 | 008 |
| AST491/591 | Fall 02 | Astronomy Journal Club | 1.00 | 1.03 | 010 |
| AST491/591 | Fall 06 | Astronomy Journal Club | 1.00 | 1.50 | 010 |
| AST491/591 | Fall 08 | Astronomy Journal Club | – | – | 010 |
| AST491/591 | Spring 10 | Astronomy Journal Club | – | – | 012 |
| AST491/591 | Fall 10 | Astronomy Journal Club | – | – | 012 |

Notes:

^a Teaching evaluation by students on scale of 1–5 (1 being best). Item 10 gives overall rating by students.

^b This section contained one or several Barrett Honors College students.

^c I meet with all students in my research group once a week (Fr. pm) to assign projects, train all students, monitor progress, and discuss specific research aspects, skills, and progress on papers and proposals. Daily training further occurs in the Lab, and/or in personal meetings with the students.

3.c Lower and Upper Division Courses Taught at ASU (different evaluation scale starting in 2011)

| Course | Year | Title | Student Evaluation ^a | | Total nr of Students |
|---------|-----------|---|---------------------------------|----------------------|----------------------|
| | | | Item 1 | Avg. 1-5 | |
| AST 112 | Spring 14 | Introduction to Stars, Galaxies and Cosmology | 3.2/5 | 3.2/5 ^{b,c} | 195 |
| AST 112 | Spring 17 | Introduction to Stars, Galaxies and Cosmology | 3.5/5 | 3.5/5 ^{b,c} | 150 |
| AST 422 | Spring 11 | Cosmology | 4.3/5 | 4.3/5 ^b | 010 |
| AST 422 | Spring 12 | Cosmology | 4.0/5 | 3.9/5 ^b | 010 |
| AST 322 | Spring 18 | Galaxies and Cosmology | 3.8/5 | 4.0/5 ^b | 049 |
| AST 322 | Spring 19 | Galaxies and Cosmology | 3.4/5 | 3.4/5 ^b | 046 |
| AST 322 | Spring 20 | Galaxies and Cosmology | 4.4/5 | 4.5/5 ^b | 049 |
| AST 322 | Spring 21 | Galaxies and Cosmology | 3.9/5 | 4.0/5 ^b | 071 |
| AST 322 | Spring 22 | Galaxies and Cosmology | 4.0/5 | 4.1/5 ^b | 048 |
| AST 322 | Spring 24 | Galaxies and Cosmology | 4.1/5 | 4.2/5 ^b | 055 |
| AST 322 | Spring 25 | Galaxies and Cosmology | 4.0/5 | 4.0/5 ^b | 060 |

Notes:

^a Starting in 2011, the teaching evaluation scale changed to 1–5 with 5 being best. Item 1 is overall rating.

^b This section contained one or several Barrett Honors College students.

^c This section used the 3D-tactiles for visually impaired or blind students.

3.d Class Webpages of Courses Taught at ASU

| Course | Title | URL of Class Website |
|----------|--------------------------------------|---|
| SES 103 | Space Exploration Lab I | http://windhorst103.asu.edu/ |
| SES 104 | Space Exploration Lab II | http://windhorst104.asu.edu/ |
| AST 111 | Intro to Solar System Astronomy | http://windhorst111.asu.edu/ |
| AST 112 | Intro to Stars, Galaxies & Cosmology | http://windhorst112.asu.edu/ |
| AST 111L | Astronomy Lab I | http://windhorst111lab.asu.edu/ |
| AST 113 | Astronomy Lab I | http://windhorst113.asu.edu/ |
| AST 114 | Astronomy Lab II | http://windhorst114.asu.edu/ |
| AST 125 | Astronomy Lab I | http://windhorst113.asu.edu/ |
| AST 126 | Astronomy Lab II | http://windhorst114.asu.edu/ |
| AST 322 | Galaxies & Cosmology | http://windhorst322.asu.edu/ |
| AST 422 | Cosmology | http://windhorst422.asu.edu/ |
| AST 500 | Astron. Techniques (w/ Scowen) | http://windhorst500.asu.edu/ |
| PHY 500 | Astrophysics Research Rotation | http://windhorst500.asu.edu/ |
| AST 598 | Astron. Techniques (w/ Odewahn) | http://windhorst598.asu.edu/ |
| AST 598 | Observational Cosmology | http://windhorst598.asu.edu/ |
| AST 598 | Extragalactic Astronomy | http://windhorst598.asu.edu/ |
| AST 532 | Galaxies II: Galaxies | http://windhorst532.asu.edu/ |
| AST 533 | Galaxies III: Cosmology | http://windhorst533.asu.edu/ |

APPENDIX 3. TEACHING (continued)

3.e Postdocs and Research Scientists mentored at ASU

The following postdocs and students have been on my payroll, and/or did research with me at ASU (some students are from other Universities). For details, see my bibliography or list of grants.

| Name | Period | Research topic | Current or last known position |
|---------------------------|---------------|---|---|
| S. Driver | 05/94-08/95 | Faint Galaxy Evolution with HST | Faculty at U. Perth (Australia) |
| S. Odewahn | 07/95-04/97 | Faint Galaxy Classifications with HST | Resident Astronomer at UT Austin |
| | 08/99-11/03 | Faint Galaxy Studies & Image Processing | |
| M. Corbin | 06/04-06/06 | Dwarf galaxy formation in the local universe | Research Scientist at USNO |
| P. Eskridge | 09/01-09/06 | Sabbatical visit: HST nearby galaxy studies | Faculty at Minnesota State Univ. |
| E. Richards | 08/99-07/00 | Hubble Fellow: Faint Radio Sources | Dept. Chair at Talladega Coll. (AL) |
| P. Schmidtke ¹ | 06/92-06/95 | The HST Medium Deep Survey | Faculty at ASU West |
| I. Waddington | 01/98-09/00 | HST/NICMOS imaging of high z Galaxies | Research in Industry (Sussex, UK) |
| K. Tamura | 01/10-01/11 | Seyfert/AGN—Starformation Connection | Faculty at Naruto University (Japan) |
| L. Jiang | 09/11-02/15 | Hubble Fellow on $z \simeq 6$ Galaxies | Faculty at Kavli Inst. (Beijing, China) |
| H. Kim | 08/13-07/14 | WFC3 Nearby Galaxy Stellar Populations | IGRINS Postdoc at UT Austin (TX) |
| M. Mechtley | 12/15-01/17 | Host Galaxies of $z \simeq 2$ & $z \simeq 6$ QSOs | Software Industry |
| K. Olsen | 08/15-08/18 | Interstellar Gas in Young Galaxies & AGN | Postdoc in Copenhagen |
| R. Morgan | 06/12-08/20 | Numerical Λ CDM Cosmological Models | Retired from Industry |
| R. Jansen | 10/01-present | Galaxy Studies with HST and JWST | Senior Research Scientist at ASU |
| S. Cohen | 06/03-present | Distant Galaxies with HST and JWST | Research Scientist at ASU |
| B. Smith | 01/20-present | HST Lyman Continuum Studies at $z \sim 2-3$ | Software Industry in Phoenix |
| T. Carleton | 05/20-present | SKYSURF: HST Zodi & EBL Legacy Archive | SKYSURF Postdoc at ASU SESE |
| P. Kamieneski | 09/22-present | Study High Redshift Lensed Dusty Galaxies | SESE Fellow at ASU |
| C. Cain | 08/23-present | Reionization with Galaxies & Black Holes | Beus Fellow at ASU |
| K. Croker | 07/24-present | Black Holes in a Cosmological Context | SESE Fellow at ASU |
| V. Estrada | 08/24-present | Galaxy Assembly: HST+JWST grism spectra | Beus Fellow at ASU |

Notes:

¹ Postdoc shared with Prof. A. Cowley.

3.f Graduate Students supervised in ASU Physics or SESE

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|-----------------------------|---------------------|---|------------------------------------|
| A. Ferro ² | 07/90-06/93 | HST Imaging of Faint Radio Galaxies | NICMOS Programmer at UofA |
| D. Mathis | 05/88-04/91 | Imaging of Radio Galaxies (Masters) | S/W specialist at Lockheed (AZ) |
| | 05/91-09/98 | The US ROSAT Deep Survey (Ph.D.) | |
| S. Mutz | 01/93-12/98 | Evolution of Galaxy Light-Profiles (Ph.D.) | Faculty, Scottsdale Com. Col. (AZ) |
| L. Neuschaefter | 05/88-12/92 | Evolution of Galaxy Clustering (Ph.D.) | Software Specialist at IIS (CO) |
| S. Pascarelle | 05/92-08/97 | HST Imaging of z=2.4 Clusters (Ph.D.) | Research Scientist at AACISD (MD) |
| J. Ponder ³ | 08/95-01/98 | The Evolution of Barred HST Galaxies | IBM scientist in Columbus (OH) |
| A. Ponder | 08/96-01/98 | Internet deployment in elementary education | Teacher in Columbus (OH) |
| C. Chiarenza | 08/96-07/01 | UV-imaging of Nearby Early-Type galaxies | Faculty at Stark College (OH) |
| S. Cohen | 04/96-05/03 | B-band Counts vs. Morphological Type | Senior Research Scientist at ASU |
| H.-J. Yan | 01/99-05/03 | The LF of Galaxies around Reionization | Faculty at Univ. of Missouri (MO) |
| V. Taylor | 01/99-12/05 | UV-imaging of Nearby Late-Type galaxies | Faculty at U. Kentucky (KY) |
| J. Russell | 08/02-11/06 | HST Imaging of milliJansky Radio Sources | US Army Material Fellow |
| S. Finkelstein ⁴ | 05/06-07/08 | Studies of High Redshift Ly α Emitters | Faculty at UT Austin (TX) |
| N. Hathi | 01/02-05/08 | HST Studies of Galaxies at Redshifts z=1–6 | Research Staff at STScl |
| R. Ryan | 08/03-07/08 | The Epoch Dependent Merger Rate | Research Staff at STScl |
| A. Straughn | 01/03-07/08 | HUDF Tadpole Galaxies & Star-Formation | Civil Servant at NASA GSFC |
| A. Mott | 05/06-12/08 | The Evolution of Faint Radio Sources | Industry in Tempe AZ |
| M. Horning | 08/08-05/09 | UV Instrument Calibration (w/ R. Jansen) | Industry in Arizona |
| L. Echevarria | 08/00-08/08 | Shapelet studies of Galaxy Structure | Highschool Teacher in Tempe |
| K. Tamura | 01/02-11/09 | UV–near-IR Studies of Nearby Galaxies | Faculty at Naruto University |
| R. Behkam ⁴ | 01/03-12/10 | Theoretical Cosmology with GRBS's | Postdoc at UC Davis (CA) |
| B. Gleim | 08/08-05/10 | ASU Planetarium Outreach | Highschool Teacher in AZ |
| K. Kaleida | 08/07-09/11 | SF in Nearby Galaxies (w/ P. Scowen) | Scientific Staff at CTIO (Chile) |
| B. Regan | 08/10-05/11 | Seyfert/AGN—Starformation Connection | PHY graduate in industry |
| S. Moffet | 08/10-05/11 | Seyfert/AGN—Starformation Connection | PHY graduate in industry |
| Z. Yun | 08/10-05/11 | NASA SWIFT Imaging of Ly α Blobs | PHY graduate in industry |
| R. Morgan ⁵ | 08/02-05/12 | Numerical Λ CDM Cosmological Models | Retired from Industry |
| H. Kim | 08/05-12/12 | WFC3 Nearby Galaxy Stellar Populations | Scientific Staff at Gemini (HI) |
| T. Veach | 08/07-12/12 | Space Instrumentation (w/ P. Scowen) | Technical Staff at NASA JPL |
| P. Hegel | 01/11-12/12 | NASA SWIFT Imaging of Ly α Blobs | Industry in Arizona |
| M. Rutkowski | 08/08-05/13 | UV Properties of High-z Early-type Galaxies | Faculty at MN State U. |
| M. Mechtley | 08/09-01/14 | Host Galaxies of z \simeq 2 & z \simeq 6 QSOs | Software Industry |

Notes:

¹ Students with a Ph.D. topic or degree (defense date is at the end of the indicated Period).

² Student supervised together with Prof. S. Wyckoff.

³ Student supervised together with Prof. D. Burstein.

⁴ Student supervised together with Prof. J. Rhoads & S. Malhotra.

⁵ Student supervised together with Prof. E. Scannapieco.

3.f Graduate Students supervised at ASU SESE (continued)

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|---|---------------------|--|-------------------------------------|
| <i>Graduate Students supervised at ASU Physics or SESE:</i> | | | |
| P. Nguyen | 08/12-05/15 | HST studies of High Redshift Galaxies | Outreach faculty, Ariz. Sc. Center |
| K. Emig ² | 08/13-07/15 | Cosmic Sources of IceCube neutrinos | Senior Graduate student, Leiden U. |
| T. Shin | 08/13-05/15 | HST studies of High Redshift Clusters | Senior Graduate student at U. Penn. |
| E. Buie ³ | 08/16-08/17 | Identification of double-lobed LOFAR sources | SESE Graduate student at ASU |
| T. Ashcraft | 08/08-05/18 | Best seeing U-band images with LBT | Faculty at Michigan State |
| R. Sarmiento ³ | 08/12-08/18 | HST studies of High Redshift Galaxies | Iridium Systems Engineer (Boeing) |
| N. Mahesh ⁴ | 08/16-08/18 | Identification of double-lobed LOFAR sources | SESE Graduate student at ASU |
| R. Holton ⁵ | 08/16-08/19 | 3D Tactiles for Blind Students | SESE Graduate student at ASU |
| D. Kim ⁶ | 08/12-10/19 | Detailed Dust studies in Nearby Galaxies | KASI postdoc, Seoul, Korea |
| B. Smith | 08/12-11/19 | HST Lyman Continuum Studies at $z \sim 2-3$ | ASU post doc; Phoenix industry |
| K. Kim ⁷ | 01/17-05/20 | Solar gravitational field from VLBI sources | NASA postdoc at GSFC |
| B. Joshi | 08/13-06/20 | HST Grism Studies of High Redshift Galaxies | NASA postdoc at STScI |
| G. Vance ² | 05/16-05/22 | Cosmic Sources of IceCube neutrinos | SESE Graduate student at ASU |
| T. McCabe ⁸ | 08/18-08/24 | Best seeing U-band images with LBT | Internet security at Carvana |
| I. McIntyre | 08/22-10/24 | HST's Thermal Behavior & Dark Signal | Medical industry in Boston |
| H. Archer | 05/20-05/25 | Star-formation in Nearby Galaxy WLM | Staff at Lowell Observatory |
| R. O'Brien | 05/20-06/25 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU undergraduate student |
| <i>Graduate Students currently being supervised at ASU Physics or SESE:</i> | | | |
| D. Carter | 05/21-present | SPHEREx: Mission Scheduling & Calibration | ASU SPHEREx graduate student |
| S. Tompkins | 05/21-present | SKYSURF: HST Zodi & EBL Legacy Archive | U. West. Australia graduate student |
| D. Kramer ⁹ | 05/21-present | Replicating HUDF images to Constrain EBL | ASU SESE graduate student |
| T. Dimitrova ⁷ | 05/22-present | The North Ecliptic Pole Time Domain Field | ASU SESE graduate student |
| A. Pigarelli ¹⁰ | 05/22-present | Study of Gravitationally Lensing Clusters | ASU SESE graduate student |
| J. Berkheimer ¹¹ | 08/22-present | JWST Study of Distant Globular Clusters | ASU SESE graduate student |
| N. Foo ¹⁰ | 08/23-present | Study of Gravitationally Lensing Clusters | ASU SESE graduate student |
| R. Ortiz | 08/24-present | Active Galaxies in JWST NIRCам images | ASU SESE graduate student |

Notes:

¹ Students with a Ph.D. topic or degree (defense date is at the end of the indicated Period).

² Student supervised together with Prof. P. Young (SESE) and C. Lunardini (ASU Physics).

³ Student supervised together with Prof. E. Scannapieco.

⁴ Student supervised together with Prof. J. Bowman

⁵ Student supervised together with Dr. P. Scowen

⁶ Student supervised together with Dr. R. A. Jansen.

⁷ Student supervised together with Prof. N. Butler

⁸ Student supervised together with Prof. S. Borthakur

⁹ Student supervised together with Prof. A. van Engelen

¹⁰ Student supervised together with Prof. A. Noble

¹¹ Student co-supervised with primary advisor Prof. K. Bossert

3.g Undergraduate Students mentored at ASU

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|--|---------------------|---|--------------------------------|
| <i>Undergraduate Students supervised at ASU Physics or SESE:</i> | | | |
| J. Ensworth | 05/91-08/92 | HST Images of Distant Radio Galaxies | ASU graduate in education |
| L. Schroeder | 05/92-08/92 | Image processing for Medium Deep Survey | ASU graduate in industry |
| J. Gordon | 05/91-08/93 | Deconvolution of HST Galaxy images | ASU graduate in industry |
| E. Ostrander ¹ | 08/93-12/94 | The HST Medium Deep Survey | ASU graduate at Intel |
| B. Franklin ¹ | 08/91-07/95 | Evolution of the Galaxy Merger Rate | ASU graduate private sector |
| D. Kasen ¹ | 08/97-12/97 | Spectroscopy of faint HST-galaxies | Faculty at Stanford (CA) |
| C. Barragan | 08/97-05/98 | UV-imaging of nearby galaxies | ASU graduate in industry |
| J. Goodwin | 05/98-08/98 | Faint HST Galaxy images | ASU graduate in industry |
| T. Keck ¹ | 01/96-05/01 | The HST B-band Parallel Survey | ASU graduate private sector |
| J. Johnson | 01/03-05/04 | UV-imaging of nearby HST galaxies | ASU graduate in industry |
| J. Bruursema ¹ | 08/03-12/04 | HST Zodi Background and the Kuiper Belt | Graduated at JHU |
| A. Aloï | 05/03-01/05 | HST Zodi Background and the Kuiper Belt | ASU graduate in industry |
| J. Rogers ¹ | 08/03-01/05 | HST Zodi Background and the Kuiper Belt | Graduated at JHU |
| C. Ellinger | 05/04-05/05 | Magellan Imaging of Distant Galaxies | ASU graduate in industry |
| A. Mott ¹ | 05/04-05/05 | Surface Photometry of Edge-on Bulges | ASU graduate in industry |
| S. Bennett | 08/05-05/06 | Ground-based Imaging of Dwarf Galaxies | ASU graduate in industry |
| R. Jarnagin | 08/05-05/06 | HST Imaging of Dwarf Galaxies | ASU graduate in industry |
| K. Schneider | 08/05-05/07 | Spacecraft design for NASA Missions | ASU graduate in industry |
| M. Mechtley ¹ | 07/06-05/08 | Appreciating Hubble at Hyperspeed | Software Industry |
| D. Cox | 08/07-05/08 | C-fibers in Diabetic Type II patients | ASU graduate in industry |
| M. Jenners | 08/07-05/08 | Early Stages of the Universe | ASU graduate in industry |
| C. Rider | 08/07-05/08 | UV Properties of Nearby Galaxies | ASU graduate in industry |
| G. Hintzen ¹ | 08/05-05/09 | IR Studies of High-z Galaxies | ASU graduate at Lockheed |
| D. Blyth | 08/08-05/09 | UV Studies of Nearby Galaxies | ASU graduate in industry |
| J. Wilenchik | 08/08-05/09 | Alternative Cosmological Models | ASU graduate in industry |
| S. Dunn | 08/09-08/10 | UV Studies of Nearby Galaxies | ASU graduate in industry |
| M. Benton ¹ | 08/10-06/11 | NASA SWIFT Imaging of Lyman- α Blobs | Faculty at Community College |
| I. Blackburn | 08/10-06/11 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| P. Hegel ¹ | 05/10-07/12 | NASA SWIFT Imaging of Lyman- α Blobs | ASU graduate in industry |
| B. Smith | 05/11-07/12 | High Redshift Gravitational Lensing Bias | Community College Faculty |
| R. Sarmento | 05/11-07/12 | HST studies of High Redshift Galaxies | ASU graduate in U.S. Navy |
| M. Hellman | 04/12-12/12 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| T. Woyner | 04/12-05/13 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| C. Ignatowski | 04/13-01/14 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| H. Hutchison ¹ | 04/12-05/14 | HST studies of the Zodiacal Light | ASU graduate in industry |
| M. Mein ¹ | 04/12-05/14 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| A. Brokaw ¹ | 12/12-08/14 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| J. Trahan | 01/14-12/14 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| M. Lopes-alves | 05/14-12/14 | HST studies of High Redshift Galaxies | ASU graduate in Brazil |

Notes:

¹ Students with a (Honors) Thesis topic or degree (completion date is at the end of the indicated Period).

3.g Undergraduate Students mentored at ASU (continued)

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|--|---------------------|---|--------------------------------|
| <i>Undergraduate Students supervised at ASU Physics or SESE:</i> | | | |
| J. Dietrich | 05/14-09/14 | LBT U-band Imaging of CANDELS Fields | Harvard graduate student |
| F. de Souza | 05/14-12/14 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| T. Shewcraft | 04/12-05/15 | Spatially-resolved LMC extinction corrections | ASU graduate in industry |
| S. Burkhart | 04/13-05/15 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| I.Meisenheimer | 01/14-05/15 | HST studies of Escaping LyC Radiation | ASU graduate in industry |
| A. Abul-Haj | 01/14-05/15 | HST studies of High Redshift Galaxies | ASU graduate in industry |
| E. Hasper ¹ | 08/11-07/15 | 3D Tactiles for Blind Students | High school teacher, Phoenix |
| A. Aubry | 08/14-07/15 | 3D Journey in the Hubble UltraDeep Field | Grad student, Embry-Riddle |
| A. Warren | 04/13-12/15 | WFC3 Nearby Galaxy Stellar Populations | ASU graduate in industry |
| B. Monus | 01/15-08/15 | HST studies of High Redshift Galaxies | ASU graduate; HS teacher |
| K. Poetch ¹ | 08/14-08/16 | HST studies of Nearby Stellar Populations | Qwaltec industry, Tempe |
| J. Vehonsky ¹ | 01/15-05/16 | LBT U-band Imaging of CANDELS Fields | ASU graduate in industry |
| S. Zhang | 01/15-08/16 | HST studies of High Redshift Galaxies | ASU graduate |
| S. Stawinski ¹ | 08/15-05/17 | Identification of double-lobed LOFAR sources | ASU graduate at SDSU |
| J. Robinson | 08/15-05/17 | HST studies of $z \approx 2$ Quasars | ASU graduate in industry |
| J. Trenter | 05/16-05/17 | HST studies of Escaping LyC Radiation | ASU graduate |
| J. Blackburn | 08/16-05/18 | HST studies of High Redshift Galaxies | ASU graduate |
| C. Companik | 05/17-12/17 | Predictions for Cluster Caustic Transits | ASU graduate in industry |
| K. Blomquist | 08/17-05/18 | Predictions for Cluster Caustic Transits | ASU graduate |
| N. Mains ¹ | 08/17-05/18 | U-band imaging of the Andromeda Galaxy | ASU graduate in industry |
| G. Rand | 08/17-05/18 | Detailed Dust studies in Nearby Galaxies | ASU graduate in industry |
| H. Tamayo | 08/17-05/18 | HST studies of High Redshift Galaxies | ASU graduate |
| P. Rybak | 05/16-05/19 | HST studies of Escaping LyC Radiation | ASU graduate |
| V. Jones ¹ | 08/15-07/19 | Variability in the NEP Time Domain Field | UofA graduate student |
| C. White ¹ | 08/15-07/19 | Studies of Faint AGN in the NEP Field | UofA graduate student |
| G. Huckabee ¹ | 05/16-07/19 | LOFAR Observations of Nearby Galaxies | UCSC graduate student |
| T. Tyburczy | 05/17-07/19 | Faint Radio Sources in JWST NEP Field | ASU graduate |
| K. Horn ¹ | 05/18-12/18 | HST studies of High Redshift Galaxies | ASU graduate |
| H. Dromiack | 05/18-08/19 | HST studies of High Redshift Galaxies | ASU graduate |
| L. Whitler ¹ | 05/17-05/21 | LOFAR Observations of Nearby Galaxies | UofA graduate student |
| J. Chambers | 05/19-08/20 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU graduate |
| K. Webber | 05/19-08/20 | SKYSURF: HST Zodi & EBL Legacy Archive | Texas A&M ASU graduate student |
| H. Abate | 05/19-08/21 | SKYSURF: HST Zodi & EBL Legacy Archive | Graduate student in Germany |
| D. Carter ¹ | 05/19-05/21 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU SPHEREx graduate student |
| C. Gelb | 05/19-05/21 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU Physics graduate student |
| L. Otteson ¹ | 05/19-08/21 | VLT U-band Imaging of CANDELS Fields | ASU Physics graduate student |

Notes:

¹ Students with a (Honors) Thesis topic or degree (completion date is at the end of the indicated Period).

3.g Undergraduate Students mentored at ASU (continued)

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|--|---------------------|---|--------------------------------|
| <i>Undergraduate Students supervised at ASU Physics or SESE:</i> | | | |
| T. Patel | 05/19-05/21 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU graduate |
| J. Jeon ¹ | 08/19-08/21 | Modeling SED-slopes of $z \simeq 6$ Galaxies | UT Austin graduate student |
| S. Sherman | 01/20-08/21 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU graduate |
| J. Berkheimer | 01/20-08/21 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU SESE graduate student |
| C. Rogers | 01/20-08/21 | SKYSURF: HST Zodi & EBL Legacy Archive | AZ industry |
| S. Tompkins ¹ | 05/18-05/21 | Evolution of Solar-mass Population III Stars | W. Australia graduate student |
| L. Nolan ¹ | 08/18-05/22 | HST Studies of NEP Time Domain Field | Graduate student in Illinois |
| I. Huckabee | 08/19-08/22 | SKYSURF: HST Zodi & EBL Legacy Archive | Graduate student in Santa Cruz |
| K. Ganzel | 08/21-08/22 | JWST Image Simulations and Pipelines | AZ industry |
| C. Ramirez | 12/21-12/22 | SKYSURF: HST Zodi & EBL Legacy Archive | AZ industry |
| A. Blanche ¹ | 08/19-05/23 | HST Lyman Continuum Studies at $z \simeq 2-3$ | NASA JPL |
| D. Henningsen ¹ | 05/21-05/23 | SKYSURF: HST Zodi & EBL Legacy Archive | AZ industry |
| A. Swirbul | 05/21-08/23 | SKYSURF: HST Zodi & EBL Legacy Archive | NASA GSFC |
| C. Redshaw ¹ | 05/21-08/23 | LBT U-band Imaging of CANDELS Fields | Graduate student at Stanford |
| H. Andras | 05/22-08/23 | JWST Pipeline and Image Analysis | Graduate student at UofA |
| B. Brinkman | 05/22-05/23 | SKYSURF: Drizzling, Catalogs and Counts | AZ industry |
| H. Huang | 05/22-05/23 | SKYSURF: Drizzling, Catalogs and Counts | Graduate student in China |
| P. Porto | 05/22-08/23 | JWST Pipeline and Image Analysis | AZ industry |
| R. Ortiz ¹ | 01/23-08/24 | Active Galaxies in JWST NIRCcam images | ASU graduate student |
| C. Jeffries ¹ | 08/23-12/24 | Automated JWST NIRCcam PSF identification | ASU graduate student |
| D. Gapinski ¹ | 01/24-12/14 | Java tool: Hyper-Zoom into JWST images | ASU graduate student |
| N. McLeod ¹ | 08/23-05/25 | JWST Dwarf Galaxy studies | ASU graduate student |
| J. Summers ¹ | 12/21-present | JWST Stars in Magellanic Spurs & Models | ASU undergraduate student |
| J. Colborn | 05/22-present | SKYSURF: Drizzling, Catalogs and Counts | ASU undergraduate student |
| Z. Goisman ¹ | 05/22-present | SKYSURF: HST Zodi & EBL Legacy Archive | ASU undergraduate student |
| R. Honor ¹ | 05/22-present | JWST Pipeline and Image Analysis | ASU undergraduate student |
| T. Acharya ¹ | 08/22-present | JWST NIRCcam PSF fitting | ASU undergraduate student |
| L. Conrad | 05/23-present | JWST NIRCcam image analysis | ASU undergraduate student |
| A. Gahlot | 05/23-present | JWST NIRCcam image analysis | ASU undergraduate student |
| T. Hinrichs ¹ | 05/23-present | JWST NIRCcam globular cluster analysis | ASU undergraduate student |
| H. Ingram | 08/23-present | HST SKYSURF: Star Count Modeling | ASU undergraduate student |
| A. Nelander ¹ | 01/24-present | AGN Reionization Models and 21cm imprints | ASU undergraduate student |
| J. Perivoltis ¹ | 01/24-present | High- z Caustic Transits with JWST NIRCcam | ASU undergraduate student |
| A. Cardona ¹ | 05/24-present | JWST NIRCcam image analysis | ASU undergraduate student |
| M. Miller ¹ | 05/24-present | HST SKYSURF: Zodiacal Modeling | ASU undergraduate student |
| G. Bowling ¹ | 08/24-present | Active Galaxies in JWST NIRCcam images | ASU undergraduate student |

Notes:

¹ Students with a (Honors or Senior) Thesis topic or degree (completion date is at the end of the indicated Period).

3.g Undergraduate Students mentored at ASU (continued)

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|---------------|---------------------|---|--------------------------------|
| K. Johnston | 08/24-present | The JWST NIRCam Natural Confusion Limit | ASU undergraduate student |
| R. Griffin | 01/25-present | JWST NIRCam image analysis | ASU undergraduate student |
| E. Moreno | 01/25-present | JWST NIRCam image analysis | ASU undergraduate student |
| E. Weissbluth | 01/25-present | JWST NIRCam image analysis | ASU undergraduate student |

Notes:

¹ Students with a (Honors or Senior) Thesis topic or degree (completion date is at the end of the indicated Period).

3.g Undergraduate Students mentored at ASU (continued)

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|---|---------------------|---------------------------------------|---------------------------------|
| <i>Graduate Students co-supervised in other ASU Departments or Schools:</i> | | | |
| A. Casano | 08/05-05/09 | C-fibers in Diabetic Type II patients | Postdoc at UCLA (CA) |
| J. Brower | 08/07-05/09 | C-fibers in Diabetic Type II patients | Postdoc at Banner Health |
| L. Burnett | 05/04-08/07 | C-fibers in Diabetic Type II patients | Postdoc at UWash Medical Center |
| L. Harris | 05/12-08/14 | 3D Tactiles for Blind Students | ASU graduate in military |
| A. Gonzales | 05/12-05/15 | 3D Tactiles for Blind Students | ASU graduate in education |

Notes:

¹ Students with a (Honors or Senior) Thesis topic or degree (completion date at the end of the indicated Period).

3.h Phoenix Area Highschool Students supervised for research at ASU

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|---|---------------------|--|--------------------------------|
| <i>Phoenix Area Highschool Students supervised for Research at ASU:</i> | | | |
| K. von Beringe | 01/12-05/13 | HST studies of High Redshift Galaxies | ASU graduate |
| M. Stephens | 08/12-05/13 | HST studies of High Redshift Galaxies | ASU graduate |
| N. Turley | 01/12-05/13 | HST studies of High Redshift Galaxies | Caltech graduate |
| G. Mooney | 08/12-05/14 | 3D Tactiles for Blind Students | ASU graduate |
| J. Dowell | 12/12-05/15 | HST studies of High Redshift Galaxies | ASU graduate |
| D. Rivera | 05/14-05/15 | HST studies of High Redshift Galaxies | ASU graduate |
| H. Bradley | 05/17-05/19 | HST studies of High Redshift Galaxies | ASU graduate |
| A. Twibell | 08/17-05/19 | HST studies of High Redshift Galaxies | Stanford graduate |
| M. Rizzo | 05/18-05/19 | HST studies of High Redshift Galaxies | ASU graduate |
| Z. Goisman | 08/20-05/22 | SKYSURF: HST Zodi & EBL Legacy Archive | ASU graduate student |
| H. Andras | 01/21-08/21 | SKYSURF: HST Zodi & EBL Legacy Archive | UofA undergraduate student |
| S. Scheller | 12/21-present | SKYSURF: HST Zodi & EBL Legacy Archive | BASIS School student |
| P. Bahtia | 08/22-05/23 | SKYSURF: Bright end of HST Galaxy Counts | BASIS School student |
| R. Layton | 08/22-05/23 | SKYSURF: HST Zodi & EBL Legacy Archive | BASIS School student |
| V. Long | 05/23-08/24 | JWST NIRCам image analysis | BASIS School student |
| A. Calcaterra | 05/24-present | JWST NIRCам image analysis | BASIS School student |

Notes:

¹ High school students did supervised research in my group preparing to go to top universities.

3.i Graduate Students supervised at other Universities

| Name | Period ¹ | Research topic ¹ | Current or last known position |
|--|---------------------|--|-----------------------------------|
| <i>Graduate Students mentored at other Universities:</i> | | | |
| M. Oort | 01/83-09/87 | Deep Radio Surveys (Ph.D. at Leiden) | Mgr. at Fokker Aerospace (NL) |
| J. Lowenthal | 01/90-08/92 | Ultradeep VLA Surveys (Ph.D. at UofA) | Faculty at Amherst (MA) |
| E. Richards | 08/93-05/99 | Ultradeep VLA Surveys (Ph.D. at UVa) | Dept. Chair, Talladega Coll. (AL) |
| S. Caddy ² | 10/20-08/23 | SKYSURF: HST Zodiacal Sky Brightness | Research Staff, Macquarie U. (OZ) |
| S. Tompkins ³ | 05/21-present | SKYSURF: HST Zodi & EBL Legacy Archive | Grad. Student U. West. Australia |

Notes:

I co-supervised these students with close collaborators in these countries.

¹ Students with a Ph.D. topic or degree (defense date is at the end of the indicated Period).

² Student co-supervised with Prof. L. Spitler (Macquarie U., Sydney, Australia).

³ Student co-supervised with Prof. S. Driver (U. Western Australia), where he now resides.

APPENDIX 4. SIGNIFICANT CONTRIBUTIONS TO TEACHING & PROFESSIONAL SERVICE

- **(1) General Philosophy for Undergraduate Teaching:** I believe that it is our critical mission to provide high quality teaching in science, astronomy and cosmology to undergraduate students. My main goal is to provide them with a basic understanding of the cosmos through the application of simple principles of Physics and Mathematics, and boost the students' interest in science and how science applies to daily life. I believe that our undergraduate students need to receive a thorough training in all aspects of cosmology: observations, data processing, analysis, modeling and interpretation. I greatly enjoyed developing several new undergraduate courses and Labs to give our undergraduate students a very high quality training in this. I am also committed to train our undergraduate students in independent, world-class cosmology research, through weekly research meetings, seminars, journal clubs, and one-to-one work. Our undergraduate students are regular co-authors on our group research papers in top-ranked journals (see over 550 papers incl. Windhorst on <https://ui.adsabs.harvard.edu/classic-form>) and get in general excellent jobs. In total, I taught over 12,800 students at ASU since 1987, or on average about 375 students per year. Details are below and in my full CV (see URLs in §2):

- **(1a) Introductory Astronomy AST 113/114 Labs:** I very much enjoy developing and teaching the undergraduate astronomy Labs, which enroll 400–550 students per semester. Since I came to ASU, I increased the AST Lab enrollment 10-fold, which was direly needed because of the enormous demand on these classes. I streamlined the AST 113/114 Labs to make them much more resource efficient. In total, the AST Labs are taught each semester to 375–432 undergraduate students. I got over a dozen Honors students involved in both the AST 113/114 Labs, the AST 111/112 and 322 lecture classes, and in my AST 495/499 UG research.

- **(1b) Upper division Galaxies and Cosmology course AST 322:** I taught this course starting in Spring 2018, and spend a significant amount of time and effort to completely design it using the modern Cosmological framework and data. The course is taught to over 55–60 upper division undergraduate students in astrophysics, physics and materials science, mathematics, computer science, and in aerospace, environmental, electrical, and mechanical engineering. The mix of students is quite different from when I last taught such a course before (AST 422, 533, or 598). This required striking a delicate balance, as the physics and math background varied a lot between all the students. I therefore developed a completely new set of home-work questions and term projects for this course, that were doable for all students. AST 322 typically covers the main framework of Special and General Relativity during the first part of the semester (with a build-up of homework that culminates in letting the students solve the Friedmann equation that Einstein never could solve). In the second part of the semester, the students then write a term-project, with a choice of topics like the latest cosmological results from the Planck 2018 Cosmic Microwave Background mission, the recent Riess et al. high-redshift supernovae and Hubble Constant work, the latest LIGO stellar mass black-hole and neutron-star merger discovery, as well as the latest HST gravitational lensing results, or the stunning 2019 Event Horizon Telescope (EHT) black-hole shadow images. My AST 322 website also presents our “*AHaH*” Java tool — “Appreciating Hubble at Hyperspeed”, that lets the students travel 3D through the Hubble galaxy images in a relativistically expanding universe. Almost all students passed or will pass the AST 322 course with good-excellent grades. Past teaching evaluations were 3.4–3.8 out of 5 (5 being best). I also tremendously enjoyed teaching this class, and hope to teach it for several more years.

- **(2a) Shepard students under extreme distress:** Having taught over 12,800 students at ASU during my career, and mentored more than 130 of them in research, fate will sometimes strike. In 2017, I had to provide special guidance and suicide watch for an AST 113 student who was present during the September 2017 mass shooting in Las Vegas. While unhurt himself, he left the scene covered by the blood of others who he saw die around him. Then in fall 2018, two other AST 113 students were affected by shootings. One was shot during a fraternity party but survived, the other had his brother murdered during the mass shooting in Jacksonville (FL) in September 2018. Again, I pulled out all the stops to provide these students with counseling and help during the semester. Fortunately, all three succeeded in completing the Labs with good grades, and we made sure that their continued well-being is closely monitored by ASU. In addition, I made sure that two of my graduate students who fell gravely ill succeeded in their

PhD work. One coped with and survived cancer, and the other needed kidney dialysis and a kidney transplant. Both have published papers. One defended in summer 2018 and the other in fall 2019.

- **(2b) Help our students cope with COVID19:** Given the rapid spread of COVID19 world-wide, on Monday March 2, ASU Provost Mark Searle asked for volunteers to start teaching ASU in-person classes. I started teaching my AST 322 class via Zoom the next day, Tuesday March 3, and send a list of lessons learned to the ASU administration. I then continued to teach AST 322 via Zoom after Spring break, by which time the students were all used to it. It was a relatively smooth and painless transition.

- To help our UG students cope with COVID19, we had a “Bring your pet to School day” in AST 322 in April 2020. In the context of the AST 322 Cosmology chapter on “Cold Dark Matter” (CDM), students were asked to show their favorite pet on camera from home during the Zoom class. Students were given a way to vote on each other’s pet with the requirement that the pet should have properties in common with CDM: Cold (nearly zero velocity and Temperature), Dark (no interaction with photons), and Matter (has significant mass and gravity), or they could show pets that clearly violated the properties of cosmological CDM. In either case, they needed to motivate their choice of pet well. The class voting resulted in up to 10 extra credit points for the best motivated CDM (or non-CDM) pets. Winners were big CDM dogs, sleepy cats, a curled-up snake, and a non moving cold temperature dark gecko, and a clearly highly volatile non-CDM parakeet.

- **(3) Honors projects in AST classes and Labs:** During my AST classes, I made special efforts to increase the interest students have in the lower division courses, including students who want to do extra work for Barrett Honors credit. The students take these classes or Labs only to fulfill a science requirement, so most are at first poorly motivated. I catch their interest by announcing at the start of each semester that we will have special Honors projects during the semester.

- **(3a) For Honors projects in the AST 111/112 courses:** I very much enjoy teaching the large astronomy undergraduate courses (140–240 students per semester). Every semester of AST 111/112, I hold a “Great Debate on Extra-Terrestrials”. Students can participate in this debate in either the “Pro-ET” or “Con-ET” team. Only one rule governs the Debate: students *must* use the scientific method, no matter which side of the debate they argue. During the semester, I point out every time a law of physics or an astronomical principle is relevant to the question as to whether or not ET’s may exist, or may have visited the Earth. The students then prepare this Great Debate during the entire semester, and two groups (a “Pro-ET” and “Con-ET” group) lead out the discussion during the Great Debate, while presenting their materials for extra credit or Barrett Honors credit (*i.e.*, written reports, Web-sites, and/or Power-Point presentations). This has been a significant success: it has boosted the students interest in science, since the students now relate to something they care about or have always wondered about, and their average grades have increased as a result. For the AST 113/114 Labs, other Honors projects can be done on the planets, our Moon, etc, usually in conjunction with a current NASA Mission.

- **(3b) Honors or Senior Thesis credit from Hubble Archival Legacy Project SKYSURF:** In 2019, this largest HST Archival project ever proposed was approved for FY20–FY22. I am leading the international SKYSURF team of more than 40 scientists spread over 20 time-zones, including several research scientists, postdocs, graduate students and 10 UG students at ASU. SKYSURF project gives AST 322 and other students the opportunity for Honors or Senior Thesis credit. *We pulled out all the stops this semester to make sure all UGs and other SKYSURF scientists could remain working on SKYSURF despite COVID19 — we made it possible to run SKYSURF from everyone’s home computers on our ASU servers and via Zoom. Hence, all SKYSURFers remain employed during COVID19.* Project SKYSURF will measure the panchromatic sky-surface brightness and discrete object counts over 248,000 ACS and WFC3 exposures in more than 1100 independent HST fields. It will map over 2 million faint stars and galaxies at UV–near-IR wavelengths all across the sky. For further details on Project SKYSURF, see §2b.

- **(3c) Efficiently catching cheaters in AST 111/112 Exams:** I used and refined my software package that allows to delete ambiguous questions in AST 111/112 tests, and find possible cheaters from suspiciously large numbers of wrong answers in common between students who were sitting close together on the seating charts, and/or who were seen to have communicated by voice, paper, cell-phone or internet during the exam. Most students who are caught copying at a significant level confess in my office, and

are given the appropriate warning and grade in the exam or the course, typically several students every semester. I tell students that I do this to help make honest citizens out of them, and many of them appreciate that.

- **(4) 3D-tactiles for visually impaired/blind students:** Five years ago, I had a NASA Hubble Education grant to introduce 3-dimensional (3D) tactile images into the AST 113/114 Lab and AST 111/112 Lecture classroom to help blind or visually impaired (BVI) students learn to use real images in STEM courses at ASU. This project has been very successful, and the first paper on its results was published by my undergraduate student E. Hasper, Windhorst, et al. (2015, J. of College Science Teaching, 44, 82). This project is called 3D-IMAGINE, or “3D IMAGE Arrays to Graphically Implement New Education”. 3D-IMAGINE’s focus is to increase the participation and performance of BVI students by providing a multi-modal tactile approach to learning image-rich material. We explored the use of various tactile image formats and activity sets to evaluate how well these assist students in Lab exercises. We evaluated these haptic tools in classes that had *both* sighted *and* BVI students, as well as in a participation study of students with vision impairment. Our study clearly showed that the use of 3D tactile images are very helpful to both sighted and vision-impaired students, and should be used further for enhanced educational benefits (see Figures in Hasper et al. 2015).

- **(5a) Graduate teaching:** I believe that graduate students need to receive a thorough training in all aspects of cosmology: observations, data processing, analysis, modeling and interpretation. I very much enjoyed developing new graduate courses to give the students world-class training in this.

- **(5b) Graduate student training:** I am committed to train graduate and undergraduate students in independent, world-class cosmology research, through weekly research meetings, seminars, journal clubs, and one-to-one work. They regularly publish their Ph. D. work in top-ranked journals (see over 520 papers incl. Windhorst on <https://ui.adsabs.harvard.edu/classic-form>), including a number of Dissertation papers in the prestigious journal Nature.

- **(6) Public outreach:** It is critical for a University to reach out to the local community, and help the general public understand the importance of the University and the value of science education. Hence, I enjoy giving popularizing lectures on campus or elsewhere in the valley each year. I involve my student in regular press releases, mostly related to the NASA/Hubble research in my group (see hubblesite.org/news/2018/23, [../2014/27](http://hubblesite.org/news/2014/27), [../2011/04](http://hubblesite.org/news/2011/04), [../2010/01](http://hubblesite.org/news/2010/01), [../2004/28](http://hubblesite.org/news/2004/28), [../2001/04](http://hubblesite.org/news/2001/04), [../2001/37](http://hubblesite.org/news/2001/37), [../1996/29](http://hubblesite.org/news/1996/29), and [../1995/08](http://hubblesite.org/news/1995/08)). I did a live KTAR radio talk-show during my AST 112 class on a NASA press release that day.

- **(7) Departmental, School College, and University Service and Personnel Management:** I have been actively involved in helping the Department, School, College, and University function optimally, and advance their goals in various areas of operation. In particular, I served as at ASU as Associate Department Chair for six years, helping the Chair run the Department of Physics and Astronomy. In this position, I was responsible for: (a) assignment of all 50 graduate teaching assistants each semester; (b) making the teaching assignments of 40 faculty; (c) assist and advise the Chair in the daily operation of the Department, and resolve personnel conflicts; (d) run various Departmental Committees; (e) manage all Astronomy related issues in the Department.

- **(8) Service to the Astronomical Community:** I want to advance the cause of astronomy in the USA by being actively involved in various astronomy committees at the national and international level. I serve, and will continue to serve on several key committees in the astronomical community:

- **(8a) Ground-based Observatories:** I was member of the National Radio Astronomy Observatory Users Committee, which helps NRAO obtain optimal use of their radio telescopes, interferometry software, and their future facilities. I served on the NRAO Oversight Committee for the VLA All-Sky Surveys (1993–1996 and 2014–present), which advised NRAO on the operation, reduction and analysis of their two 5000-hr VLA All Sky Surveys.

- **(8b) The Hubble Space Telescope (HST):** I was particularly active in the Hubble Space Telescope Users Committee (STUC), which is a watch-dog of HST’s reliability, efficiency, health, and budget. Here,

I chaired the HST/STUC Independent Budget Review Committee, which reviewed the entire NASA HST-budget (240 M\$/year) for 10 years. I was an active member of the HST Parallel Working Group, who advises STScI how to best take (parallel) observations with all the Hubble instruments. I am a key member the Scientific Oversight Committee (SOC) of HST's Wide Field Camera 3 (WFC3), which closely monitored the design and construction of the 130 M\$ WFC3 to make sure WFC3 could fully carry out its intended science. WFC3 was successfully launched towards Hubble by the Space Shuttle astronauts in May 2009 to help keep Hubble operational till well beyond 2020, possibly until 2025. I lead the WFC3 far-extragalactic Early Release Science (ERS) program, which led to $\gtrsim 65$ refereed papers since 2009.

• **(8c) The James Webb Space Telescope (JWST):** I am one of the world's six Interdisciplinary Scientists for the James Webb Space Telescope. JWST is the 6.5 meter sequel to Hubble that was successfully launched in Dec. 2021. My responsibilities are to define the best JWST science, help the JWST Project define the optimal telescope and instrument performance, simulate JWST's actual performance, monitor the entire design, integration and testing phases of JWST, and after its launch carry out a vigorous research JWST program in 2022–2025 using our 110 guaranteed hours of observing time (GTO time). Starting in summer 2022, I will lead JWST studies on the assembly of galaxies at redshifts $z=1-5$, when the universe was a few billion years old, and lead a search for the first stars and star clusters that started shining at redshifts $z=6-20$, when the universe was less than one billion years old. My JWST work in these peer-reviewed projects is supported by NASA grants since 2002, and planned to last through 2025.

• **(8d) ASU Founders Representative at the Giant Magellan Telescope Board:** Since 2018, I have been the ASU Representative at the GMT Founders Board, after ASU joined the 25 meter Giant Magellan Telescope project in late 2017. This board meets several times a year. The GMT Organization president is Dr. R. Shelton in Pasadena. I am actively involved in the ASU fundraising for this project, as well as recruiting a senior astronomer to ASU who can build a next generation instrument for GMT.

APPENDIX 5. HIGHLIGHTS OF MAIN RESEARCH

Here I review the highlights of my research, and give references to the relevant journal papers or review papers listed in my bibliography. By the nature of the field, many of my papers are multi-authored. Hence, I will summarize those projects and papers where I was the science lead, or where one of the 20 postdocs or 56 graduate students (see App. 3.e–f) in my group at ASU was first author (see App. 6), and/or when I had otherwise a significant impact on the science results:

(1) The Nature and Evolution of Faint Radio Source Populations

- **Multi-frequency radio surveys down to milliJansky levels:** Starting in the 1980's, I carried out deep radio-optical surveys of the sky to delineate the cosmological evolution of the radio source population (in luminosity, space density, and linear size) and trace its physical cause: Why were active galactic nuclei much more numerous and luminous in the past? In the first set of sub-milliJansky surveys with the Westerbork Radio Synthesis Telescope and the Very Large Array, I discovered the upturn in the milliJansky source counts (Windhorst et al. 1984, 1985, 1990), which heralded a different population of radio faint sources than the canonical giant ellipticals and quasars, whose central engines are super-massive black holes.
- **Ultradeep microJansky radio surveys of selected areas:** I carried out or was involved in systematic radio surveys at microJansky levels with the VLA and Westerbork, which confirmed the upturn in the milliJansky source counts over almost 1 dex in frequency and greatly improved its significance (Windhorst et al. 1985, 1993, 1995, 2003; Oort & Windhorst 1985; Oort et al. 1988; Donnelly, Partridge, & Windhorst, 1987; Katgert, Oort, & Windhorst, 1988; Fomalont et al. 1991, 2003, 2004; Hopkins et al. 2000).
- **Limits to fluctuations in the Cosmic Background Radiation at cm wavelengths:** I was involved in using these microJansky surveys to set meaningful upper limits to possible fluctuations in the Cosmic Background Radiation on arcsec–subarcmin scales at cm wavelengths (Fomalont et al. 1988; Windhorst et al. 1995; Richards et al. 1997; Partridge et al. 1997; Campos et al. 1999).
- **High resolution imaging of faint radio sources:** I was involved in systematic high-resolution VLA imaging of the nature of milliJansky and microJansky radio sources. These sources are a mixture of classical FR-II/FR-I sources, starburst-driven compact radio sources, and sources with weak compact AGN (Oort et al. 1987). We measured the size evolution of the FR-II sources (Oort, Katgert, & Windhorst, 1987). These results led to papers to simulate the nanoJansky radio universe with the Square Kilometer Array ("SKA", Hopkins et al. 2000; Kawata, Gibson, & Windhorst, 2004) and a review paper on the natural confusion limit at radio and optical–IR wavelengths (Windhorst et al. 2005).
- **HST imaging, multicolor photometry and spectroscopy of faint radio galaxies:** I led or was closely involved in a number of projects to delineate the true nature and evolution of faint radio galaxies, which provided solid UV-optical evidence of a mixture of early-type galaxies, starbursting and post-starburst galaxies, and weak AGN, where the starburst galaxies cause the upturn in the milliJansky source counts (Windhorst et al. 1984b, 1985, 1991, 1992, 1994a, 1994b, 1998; Oort & Windhorst 1985; Kron, Koo, & Windhorst, 1985; Keel, & Windhorst, 1993, Fomalont et al. 1997; 1997, 2003, 2004; Scoville et al. 1997; Richards et al. 1998, 1999; Haarsma et al. 2000; Waddington et al. 1999, 2000, 2001, 2002).
- **In summary:** The above work was described in a number of review papers (van der Laan & Windhorst 1982; Windhorst 1985, 1986; Windhorst et al. 1990, 1999a, 1999b, 2000a, 2000b, 2001, 2003). In Windhorst et al. (1985, 1995), we identify the microJansky sources as a population dominated by double, interacting and merging sources, and suggest that these objects are gradually forming giant early-type galaxies through repeated hierarchical merging. In Windhorst (2003), I suggested that the Cosmological Constant Λ may have played a role in driving the strong cosmological evolution of faint radio sources by winding down the strongly epoch-dependent merger rate and gas infall for $z \lesssim 0.5$ –1. This same process may also cause the transition between the merger/infall-driven universe of interacting/peculiar galaxies that we see with HST at $z \gtrsim 1$ and the universe that is mostly passively evolving at $z \lesssim 0.5$ –1, as described in later HST papers (*e.g.*, Cohen et al. 2003, Windhorst et al. 2004).

(2) The Faint Galaxy (two-point) Correlation Function and the Evolution of Galaxy Clustering

- These deep radio-optical surveys were also used to delineate the faint galaxy two-point correlation function for $V \lesssim 26$ mag on 0.5° scales (Neuschaefer, Windhorst, & Dressler, 1991; Neuschaefer, & Windhorst, 1995a, 1995b). This showed a significantly lower amplitude of galaxy clustering at faint fluxes ($z \gtrsim 1$), and set limits to the possible evolution of the correlation function slope, which are important constraints to large scale structure formation.

(3) HST Surveys to Trace the Nature and Evolution of Faint Galaxies

I led or was closely involved in a significant number of HST projects to delineate the nature and evolution of faint galaxies:

- **HST mid-UV imaging of nearby galaxy morphology and structure as benchmark for reliable high redshift classifications:** The key to address the nature and evolution of faint field galaxies is to understand the rest-frame UV morphology and structure of nearby galaxies. This we begun to do in Keel & Windhorst (1991, 1993) and Windhorst et al. (1994a, 1994b). A significant step forward came from recent systematic HST imaging projects in the rest-frame mid-UV of nearby galaxies (Windhorst et al. 2002; Eskridge et al. 2003; de Grijs et al. 2003; Taylor-Mager et al. 2005, 2007, 2018; Windhorst et al. 2011). The main findings were that at high redshift, true early-type galaxies are more likely to be misclassified than true late-type galaxies, although early-types do not usually get misclassified at late-type galaxies (Windhorst et al. 2002). See also: hubblesite.org/news/2001/04 and [2001/37](http://hubblesite.org/news/2001/37).

- **Accurate quantitative classification of faint galaxies:** My group at ASU classified faint galaxies using Artificial Neural Networks (Odewahn et al. 1996, 1997) and Fourier decomposition methods (Odewahn et al. 2002), resulting in more robust classification of the faint blue galaxy population seen by HST.

- **The nature of faint galaxies seen in deep HST surveys:** I led a group at ASU to do systematic deep HST surveys — even before the Hubble Deep Fields came out — and was actively involved in the HST Medium-Deep Survey Key Project to image many more fields with HST/WFPC2 in parallel mode. Even before HST’s spherical aberration was fixed, this led to some ability to classify faint galaxies as bulge-dominated or disk-dominated (King et al. 1991; Windhorst et al. 1992, 1994a, 1994b; Casertano et al. 1995; Griffiths et al. 1994a; Phillips et al. 1995). The most significant results from this work came after HST’s image quality was fixed in late 1993: we used the HST images to show that faint blue field galaxies are dominated by late-type/irregular or peculiar/merging and actively star-forming galaxies (Driver, Windhorst et al. 1995a, 1995b, 1996, 1998, 2003; Mutz et al. 1994, 1997; Schmidtke et al. 1997, and review papers by Windhorst et al. 1996, 1998, 1999a, 1999b, 2000b, 2003). See also: hubblesite.org/news/1995/08.

- **The evolution of faint galaxies seen in HST surveys:** My group at ASU used these deep HST images and the Medium-Deep Survey images to constrain the metric sizes and size evolution of faint galaxies (Mutz et al. 1994), and to delineate the evolution of faint galaxies across the Hubble sequence (Driver et al. 1995b, 1996, 1998; Griffiths et al. 1994b; Cohen et al. 2003). The most important result from this work appeared in Driver et al. (1995, 1998), Odewahn et al. (1996) and Cohen et al. (2003): the dominant class of late-type/irregular and peculiar/merging galaxies at $z \gtrsim 1-2$ is in the gradual process of hierarchically growing the giant early-type galaxies, which dominate the Hubble sequence that we see at $z \lesssim 1$.

- **HST imaging of other classes of objects:** My groups was also involved in constraining the epoch-dependent merger rate from the HST images (Burkey et al. 1994), and set limits to the Cosmological Constant from the counts of well-classified early-type HST galaxies (Driver et al. 1996; Phillips et al. 2000) before the SN and WMAP results yielded an accurate value of Λ . I was also involved in HST studies of the nature of specific classes of high redshift sources, such as sub-mm sources (Chapman et al. 2003a, 2003b, 2004b; Conselice et al. 2003), Lyman Break Galaxies (Chapman et al. 2002), $\text{Ly}\alpha$ “Blobs” (Chapman et al. 2004a), faint X-ray sources (Nandra et al. 2002; Yan et al. 2002), and faint high redshift radio galaxies (Windhorst et al. 1998, Keel et al. 1999, 2002). A number of the latter objects have weak AGN that were identified through faint $\text{Ly}\alpha$ AGN-reflection cones.

(4) Distant Groups or Proto-Clusters of Young Sub-galactic Sized Objects

- One of the dramatic discoveries with HST was that one high redshift radio galaxy at $z=2.39$ that my group had studied — including with HST (Windhorst et al. 1991, 1992, 1998) — was surrounded by

a significant number of faint Ly α emitting candidates, which were very blue and compact in the HST images. These objects were identified at $z \simeq 2.4$ in papers by Pascarelle et al. (1996a, 1996b, 1998) and Keel et al. (1999, 2002, 2004). In total, three weak radio AGN were found at $z \simeq 2.39$ with faint AGN reflection cones shining off to one side. The most significant result was that the faint surrounding $z \simeq 2.4$ objects are clearly sub-galactic in size and mass ($M \simeq 10^8 - 10^9 M_\odot$), and as a group had a small enough velocity dispersion to allow for subsequent merging at $z \gtrsim 2$, resulting in the giant galaxies that we see today at $z \lesssim 1$. This is thus a direct manifestation of the hierarchical galaxy growth that is implicitly visible in the evolution of the Hubble sequence in the HST field galaxy surveys described above. See also: hubblesite.org/news/1996/29.

(5) Nature and Evolution of the Oldest or Reddest Galaxies at High Redshifts

As a spin-off of the deep radio-optical surveys, I was involved in finding a number of optically very faint or unidentified radio sources, whose nature only became clear through careful collaborative studies involving the worlds largest telescopes:

- **Ages of the oldest galaxies at high redshifts:** In Dunlop et al. (1996) and Spinrad et al. (1997), this work identified two milliJansky radio sources through Keck spectroscopy as ~ 3.5 -Gyr old galaxies $z \simeq 1.43 - 1.55$, which were the oldest known galaxies known at high redshifts at that time. In Peacock et al. (1998), we summarized the constraints that these old high redshift galaxies provided on the primordial density fluctuation spectrum. These old ages at high redshift posed an immediate problem for high redshift galaxies in the then-popular zero- Λ cosmologies, and was foreboding the need for a Dark Energy dominated cosmology (Driver et al. 1996; Phillips et al. 2000).
- **Sizes of the oldest galaxies at high redshifts:** In Waddington et al. (2002), we presented HST/NICMOS images of these two old galaxies at $z \simeq 1.5$, which clearly showed dominant $r^{1/4}$ -laws and which constrained the Kormendy relation at that redshift.

(6) Studies of the Cosmic Reionization Epoch

Recently, part of my group at ASU has been involved in delineating the population that was responsible for completing the epoch of cosmic reionization at $z \simeq 6$:

- **The population of objects that completed cosmic reionization at $z \simeq 6$:** In papers led by Haojing Yan, we summarized all available constraints to the surface density and LF of objects at $z \simeq 6$ (Yan et al. 2002). Next, these were supplemented with samples of $z \simeq 6$ dropouts from HST/ACS parallel fields (Yan, Windhorst, & Cohen 2003) and the Hubble Ultra Deep Field (Yan, & Windhorst 2004a, 2004b). The fraction of bogus detections and lower-redshift interlopers is generally small enough that at the faint-end ($AB \simeq 27 - 29.5$ mag) i-band dropouts are largely genuine $z \simeq 6$ objects. Their number density is large enough and their faint-end LF-slope is steep enough that the collective UV-output of dwarf galaxies likely ended the process of cosmic reionization at $z \simeq 6$ (Yan & Windhorst 2004a, 2004b, 2010). If true, this has dramatic consequences for the formation of objects at $z \gtrsim 6 - 7$ and the design of surveys with James Webb Space Telescope (JWST). See also: hubblesite.org/news/2004/28 and hubblesite.org/news/2003/05.
- **The HST ACS and WFC3 Grism Surveys:** Through the HST “GRAPES”, “PEARS” and “FIGS” grism surveys, I was involved in getting ACS and WFC3 grism redshifts for faint objects in the Hubble Ultra Deep Field and the GOODS fields to $AB = 27 - 27.5$ mag. This resulted in $\gtrsim 28$ papers by Pirzkal et al., Rhoads et al., Malhotra et al., and other collaborators since 2004. These projects showed that i-band dropouts to $AB = 27.5$ mag have a 80–93% spectroscopic confirmation rate at $z \simeq 6$, thereby validating the Yan et al. (2004) reionization results, and that the number of LT-dwarfs stars among the i-band dropouts is small.
- **Indirect constraints to reionization:** In a paper by Shaver, Windhorst, Madau, & de Bruyn (1999), we investigated if the reionization epoch can be detected as a global signature in the cosmic background — both in redshifted HI and redshifted Ly α , and delineated how these features may be constrained with Low Frequency Array (“LOFAR”) and HST/STIS. This is now being implemented as science requirements for the next generation radio telescopes LOFAR and the SKA. As of 2018, this prediction has been verified by a first observation of the global redshifted neutral hydrogen (or HI) signal with the EDGES experiment of Bowman et al. (2018), although this feature occurs at a higher redshift than predicted.

(7) Applying Astronomical Image Analysis Software to Improve Diagnosis in Medical Images:

I led a team of people to systematically apply astronomical image analysis and classification software to a variety of medical images with as main goal to help more accurately to produce fast, reliable, and user-friendly methods to diagnose various diseases in an early stage. Critical for this work are the algorithms that we use for faint HST galaxy detection, object deblending, unsharp masking, surface photometry, asymmetry analysis, and galaxy classification. This research is in progress and includes:

- **Finding the onset of Type 2 diabetes in an early stage:** This is done by delineating and quantitatively measuring the surface density of C-fibers in skin-biopsies of healthy, pre-diabetic and diabetic Type 2 patients. The goal is to identify pre-diabetic patients in an early stage, *i.e.*, when the onset of the disease may still be prevented or delayed through natural means. In Burnett et al. (2004) we present the first results. A patent for this diagnostic method has been granted, and we published the method in Tamura et al. (2009, J. of Neuroscience Methods, 185, 325).

- **Recognizing deficiencies in glucose cells:** This is done by quantitatively measuring the density of defects on top of glucose cell images. Goal is to identify glucose deficiencies in an early stage.

- **Quantitatively measuring the spreading of tumor cells:** This will be done by quantitatively measuring the distribution of tumor cells in images of various kinds of cancer tissue. Goal is to measure the spread of tumors in the earliest possible stage.

In summary: After some initial startup issues related to dealing with human subjects and human tissue, the unique combination of medical imaging and HST faint galaxy classification and image analysis software offers a significant area of potential growth.

(8) 3D Tactiles to Help Blind/Visually Impaired Students Study STEM Materials and Images:

Starting in 2012, I led a team a group of faculty and researchers in ASU Life Sciences, ASU Engineering and SESE to use 3D tactile surfaces to help blind and visually impaired students study STEM materials from images. This includes a concept to make a fully movable 3D tactile surface that fits on top of iPhones or iPads using temperature/current sensitive Hydrogel pixels. Details on this 3D tactile project can be found on: <http://windhorst113.asu.edu/> (see Syllabus) ; https://asunews.asu.edu/20120821_3dimagine ; and https://asunews.asu.edu/20120827_windhorst . We published details on this project in Hasper et al. (2015, J. of College Science Teaching, 44, 82), and it led to another patent.

(9) The HST WFC3 Early Release Science (ERS) survey:

The extragalactic part of our HST WFC3 ERS survey resulted in $\gtrsim 65$ papers since 2009 on targets ranging from nearby galaxies to early objects in the epoch of reionization at redshifts $z \gtrsim 6$, when the universe was less than 1 billion years old. The unique UV–near-IR capabilities of WFC3 that we designed in the SOC were essential to trace the star-formation from today all the way back to redshifts $z \approx 8-10$, when the universe less than 650 million yrs old. In the areas surveyed, the unique HST WFC3 data provide the essential UV–optical complement (at wavelengths $\lambda \approx 0.2-0.7 \mu\text{m}$) to JWST images that will cover $\lambda \approx 0.7-5 \mu\text{m}$ and longwards starting in 2021.

(10) Papers in preparation of our JWST GTO surveys:

In preparation for our JWST GTO survey that will start in 2021, we have published $\gtrsim 30$ HST papers since 2010 that were written in support for JWST. Only Hubble can provide the unique short wavelength data (at $\lambda \approx 0.2-0.7 \mu\text{m}$) that provide the essential complement the JWST that we will get at $\lambda \approx 0.7-5.0 \mu\text{m}$ and beyond starting in 2021. Noteworthy here are the following: (a) We aim to observe the First Stars directly during the first 500 Myr via cluster caustic transits, where gravitational lensing can temporarily produce extreme magnifications (*e.g.*, Windhorst et al. 2018); (b) We also plan to monitor the best survey field at the North Ecliptic Pole (NEP) to find the first supernovae with JWST (*e.g.*, Jansen & Windhorst 2018).

(11) Selected Web-sites of NASA Hubble Press Releases on my Research:

- <https://hubblesite.org/contents/news-releases/1995/news-1995-08>
- <https://hubblesite.org/contents/news-releases/1996/news-1996-29>
- <https://hubblesite.org/contents/news-releases/2001/news-2001-04>
- <https://hubblesite.org/contents/news-releases/2001/news-2001-37>
- <https://hubblesite.org/contents/news-releases/2003/news-2003-05>
- <https://hubblesite.org/contents/news-releases/2004/news-2004-07>
- <https://hubblesite.org/contents/news-releases/2004/news-2004-28>
- <https://hubblesite.org/contents/news-releases/2006/news-2006-04>
- <https://hubblesite.org/contents/news-releases/2009/news-2009-25>
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- <https://asunow.asu.edu/20180425-discoveries-see-first-born-stars-universe>
- <https://www.nasa.gov/feature/goddard/2020/simulations-show-webb-telescope-can-reveal-distant-galaxies-hidden-in-quasars-glare/>
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- <https://hubblesite.org/contents/news-releases/2022/news-2022-003>
- <https://blogs.nasa.gov/webb/2022/10/05/webb-hubble-team-up-to-trace-interstellar-dust-within-a-galactic-pair/>
- <https://news.asu.edu/20221005-discoveries-webb-images-reveal-interstellar-discovery>
- <https://www.cnn.com/2022/10/05/world/webb-telescope-galaxy-pair-hubble-scn/index.html>
- <https://hubblesite.org/contents/news-releases/2022/news-2022-050>
- <https://news.asu.edu/20221208-hubble-detects-faint-ghost-light-around-our-solar-system-skysurf>
- <https://webbtelescope.org/contents/early-highlights/webb-glimpses-field-of-extragalactic-pearls-studded-with-galactic-diamonds>
- <https://blogs.nasa.gov/webb/2022/12/14/webb-glimpses-field-of-extragalactic-pearls-studded-with-galactic-diamonds/>
- <https://esawebb.org/images/pearls1/zoomable/>
- <https://news.asu.edu/20221213-jwst-pearls-project-unveils-exquisite-views-distant-galaxies>
- <https://www.cnn.com/2022/12/14/world/webb-telescope-galactic-diamonds-scn/index.html>
- <https://www.quantamagazine.org/astronomers-say-they-have-spotted-the-universes-first-stars-20230130/>
- <https://webbtelescope.org/contents/news-releases/2023/news-2023-119>

(11) Selected Web-sites of NASA Hubble Press Releases on my Research (cont):

- <https://www.nasa.gov/feature/goddard/2023/webb-spotlights-gravitational-arcs-in-el-gordo-galaxy-cluster>
- <https://news.asu.edu/20230801-jwsts-gravitational-lens-reveals-distant-objects-behind-el-gordo-galaxy-cluster>
- <https://news.asu.edu/20230802-global-engagement-asu-webb-telescope-einstein-werner-salinger-holocaust>
- <https://www.space.com/james-webb-telescope-einstein-general-relativity-galaxy-warps>
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- <https://esawebb.org/news/weic2327/?lang>
- <https://news.asu.edu/20231107-hubble-and-jwst-synergy-reveals-vivid-landscape-galaxies>
- <https://www.cnn.com/2023/11/09/world/webb-hubble-colorful-galaxy-cluster-scn/index.html>
- <https://www.nytimes.com/2023/12/19/science/christmas-stars-galaxies-webb-nasa.html?>
- <https://bigthink.com/starts-with-a-bang/triple-lens-supernova-jwst/>
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- <https://news.asu.edu/20241028-science-and-technology-robotic-eyes-help-researchers-explore-big-bang-reverse>
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- <https://www.sciencealert.com/black-holes-could-be-the-mysterious-force-expanding-the-universe>
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- <https://earthsky.org/space/black-holes-as-the-source-dark-energy/>
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- <https://www.earth.com/news/new-evidence-suggests-that-dark-energy-comes-from-black-holes/>
- <https://www.astronomy.com/science/could-black-holes-create-dark-energy/>
- <https://www.iflscience.com/black-holes-could-be-churning-out-dark-energy-potentially-solving-cosmological-mystery-77264>
- <https://news.asu.edu/20250106-science-and-technology-beyond-dragon-arc-unveiling-treasure-trove-hidden-stars>
- <https://www.space.com/space-exploration/james-webb-space-telescope/james-webb-space-telescope-spots-record-breaking-collection-of-stars-in-far-flung-galaxy>
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- <https://news.asu.edu/20250822-science-and-technology-breakthrough-dark-energyblack-hole-connection-sheds-light-neutrino>

(11) Selected Web-sites of NASA Hubble Press Releases on my Research (cont):

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- <https://www.desi.lbl.gov/2025/08/21/black-holes-that-convert-matter-into-dark-energy-allow-for-positive-neutrino-masses/>
- <https://news.umich.edu/dark-energy-filled-black-holes-plus-desi-data-give-neutrino-masses-that-make-sense/>
- <https://www.nature.com/articles/d41586-025-02720-6>
- <https://www.eurekalert.org/news-releases/1095541>
- <https://www.space.com/astronomy/black-holes-that-transform-matter-into-dark-energy-could-solve-cosmic-hiccups-mystery>
- <https://www.newswise.com/articles/dark-energy-filled-black-holes-plus-desi-data-give-neutrino-masses-that-make-sense>
- <https://gizmodo.com/black-holes-are-the-elusive-source-of-the-universes-dark-energy-study-argues-2000646919>

Total internet reads or hits from press releases since 1995: over 10 billion ¹.

¹ (These numbers are estimates provided by NASA and/or <https://app.criticalmention.com> , e.g., <https://app.criticalmention.com/cm/report/66f7d9ce-28be-4b53-89bd-420e6e15621b>).

APPENDIX 6. BIBLIOGRAPHY

All my papers can be found on: <https://ui.adsabs.harvard.edu/classic-form> , or in my full resume on: http://www.asu.edu/clas/hst/CV/windhorstCV_full.pdf . In summary:

- 359 refereed papers published or in press since 1981;
- 137 conference papers and 267 AAS abstracts since 1983.

Note: In determining authorship order, my principle is to have a more junior author who worked under my close supervision listed first, such as my graduate students and postdocs. In such cases, I am usually listed as second or third author. If all authors contribute about equally, the order is usually alphabetic. Total current number of published pages in refereed journals: 3267.

6.a Papers submitted or resubmitted to refereed journals

- 380) “A Long Time Ago in an LAE Far, Far Away: A Signpost of Early Reionization or a Nascent AGN at $z=13$?”
Cohon, J., Cain, C., Windhorst, R., D’Aloisio, A., Carleton, T., & Zhu, Y. 2025, ApJ, submitted (astro-ph/2508.05739)
- 379) “Globular Clusters in the Galaxy Cluster MACS0416 at $z = 0.397$ ”
Berkheimer, J. M., Windhorst, R. A., Harris, W. E., Koekemoer, A. M., Carleton, T., Cohen, S. H., Jansen, R. A., Coe, D., Diego, J., Conselice, C. J., Driver, S. P., Frye, B. L., Grogin, N. A., Hinrichs, T. R., Holwerda, B. W., Keatley, K. E., Keel, W. C., Lucas, R. A., Marshall, M. A., Nonino, M., Pirzkal, N., Ricotti, M., Robertson, C. D., Robotham, A., Ryan, Jr., R. E., Summers, J., Willmer, C. N. A., & Haojing Yan, H. 2025, ApJ, submitted (astro-ph/2508.03883)
- 378) “The Distribution of Quenched Galaxies in the Massive $z = 0.87$ Galaxy Cluster El Gordo”
Honor, R., Cohen, S. H., Carleton, T., Willner, S. P., del Carmen Polletta, M., Windhorst, R. A., Coe, D., Conselice, C. J., Diego, J. M., Driver, S. P., D’Silva, J. C. J., Foo, N., Frye, B. L., Grogin, N. A., Hathi, N. P., Jansen, R. A., Kamieneski, P. S., Koekemoer, A. M., Leimbach, R., Marshall, M. A., Ortiz, III, R., Pirzkal, N., Ricotti, M., Robotham, A. S. G., Rutkowski, M. J., Ryan, Jr., R. E., Saikia, P., Summers, J., Willmer, C. N. A., & Yan, H. 2025 ApJ, submitted (astro-ph/2508.xxxxx)
- 377) “Can High-redshift AGN Observed by JWST Explain the EDGES Absorption Signal?”
Nelander, A., Cain, C., D’Silva, J. C. J., Sims, P. H., Windhorst, R. A., & Bowman, J. D. 2025, PASA, submitted (astro-ph/2507.21230)
- 376) “JWST Spectroscopic Confirmation of the Cosmic Gems Arc at $z=9.625$ — Insights into the Small Scale Structure of a Post-Burst System”
Messa, M., Vanzella, E., Loiacono, F., Adamo, A., Oguri, M., Sharon, K., Bradley, L. D., Christensen, L., Claeysens, A., Richard, J., Abdurro’uf, Bauer, F. E., Bergamini, P., Bolamperti, A., Brada, M., Calura, F., Coe, D., Diego, J. M., Grillo, C., Y-Y. Hsiao, T. , Inoue, A. K., Fujimoto, S., Lombardi, M., Meneghetti, M., Resseguier, T., Ricotti, M., Rosati, P., Welch, B., Windhorst, R. A., Xu, X., Zackrisson, E., Zanella, & A., Zitrin, A. 2025, A&A, submitted (astro-ph/2507.18705)
- 375) “Dissecting Reionization with the Cosmic Star Formation and AGN Luminosity History”
D’Silva, J. C. J., Driver, S. P., Lagos, C. D. P., Robotham, A. S. G., Adams, N. J., Conselice, C. J., Frye, B., Hathi, N. P., Harvey, T., Koekemoer, A. M., Ortiz III, R., Ricotti, M., Robertson, C., Silver, R. M., Wilkins, S. M., Willmer, C. N. A., Windhorst, R. A., Cohen, S. H., Jansen, R. A., Summers, J., Coe, D., Grogin, N. A., Marshall, M. A., Pirzkal, N., Ryan Jr., R. E., & Yan, H. 2025, MNRAS, submitted (astro-ph/2507.16112)
- 374) “PEARLS: NuSTAR and XMM-Newton Extragalactic Survey of the JWST North Ecliptic Pole Time-domain Field III”
Silver, R., Civano, F., Zhao, X., Creech, S., Willmer, C. N. A., Willner, S. P., Windhorst, R. , Yan, H., Koekemoer, A. M., O’Brien, R., Ortiz III, R., Jansen, R. A., Maksym, P., Cappelluti, N.,

Fornasini, F., Carleton, T., Cohen, S. H., Honor, R., Summers, J., DSilva, J. C. J., Laha, S., Coe, D., Conselice, C. J., Diego, J. M., Driver, S. P., Frye, B., Grogin, N. A., Marshall, M. A., Pirzkal, N., Robotham, A., & Ryan, Jr. R. E., 2025, ApJ, submitted

373) “SKYSURF-10: A Novel Method for Measuring Integrated Galaxy Light”

Carter, D. D., Carleton, T., Henningsen, D., Windhorst, R. A., Cohen, S. H., Tompkins, S., O’Brien, R., Koekemoer, A. M., Li, Juno, Goisman, Z., Driver, S. P., Robotham, A., Jansen, R., Grogin, N., Huang, H., Acharya, T., Berkheimer, J., Abate, H., Gelb, C., Huckabee, I., & MacKenty, J. 2025, ApJS, submitted (astro-ph/2507.05323)

372) “SKYSURF IX – The Cosmic Optical and Infrared Background from Integrated Galaxy Light Measurements”

Tompkins, S. A., Driver, S. P., Robotham, A. S. G., Windhorst, R. A., Carter, D., Carleton, T., Goisman, Z., Henningsen, D., Davies, L. J., Bellstedt, S., D’Silva, J. C. J., Li, J., Cohen, S. H., Jansen, R. A., O’Brien, R., Koekemoer, A. M., Grogin, N., & MacKenty, J. 2025, MNRAS, submitted (astro-ph/2507.03412)

371) “JWST’s PEARLS: A Candidate Massive Binary Star System in a Lensed Galaxy at Redshift 0.94”

Williams, H., Kelly, P. L., Zapartas, E., Windhorst, R. A., Conselice, C. J., Cohen, S. H., Dhanas-ingham, B., Diego, J. M., Filippenko, A. V., Holwerda, B. W., Jones, T. J., Koekemoer, A. M., Meena, A. K., Ricotti, M., Robertson, C. D., Saikia, P., Sun, B., Willner, S. P., Yan, H/. & Zitrin, A. 2025, ApJ, submitted (astro-ph/2507.03098)

370) “JWST’s PEARLS: Temperatures of Nine Highly Magnified Stars in a Galaxy at Redshift $z=0.94$ and Simulated Stellar Population Dependence on Stellar Metallicity and the Initial Mass Function”

Williams, H., Kelly, P. L., Windhorst, R. A., Filippenko, A. V., Alfred, A., Broadhurst, T., Chen, W., Conselice, C. J., Cohen, S. H., Diego, J. M., Holwerda, B. W., Koekemoer, A. M., Li, S.-K., Meena, A. K., Palencia, J. M., Ricotti, M., Robertson, C. D., Sun, B., Willner, S. P., Yan, H., & Zitrin, A. 2025, ApJ, submitted (astro-ph/2507.03097)

369) “PEARLS: Twenty-One Transients Found in the Three-Epoch NIRCcam Observations in the Continuous Viewing Zone of the James Webb Space Telescope”

Yan, H., Sun, B., Ma, Z., Wang, L., Willmer, C. N. A., Chen, W., Grogin, N. A., Beacom, J. F., Willner, S. P., Cohen, S. H., Windhorst, R. A., Jansen, R. A., Cheng, C., Huang, J.-S., Yun, M., Gim, H. B., Hammel, H. B., Milam, S. N., Koekemoer, A. M., Hu, L., Diego, J. M., Summers, J., D’Silva, J. C. J., Coe, D., Conselice, C. J., Driver, S. P., Frye, B., Marshall, M. A., Ortiz, R., III, Pirzkal, N., Robotham, A., Ryan, R. E., Jr., Honor, R., O’Brien, R., Fazio, G. G., Adams, N. J., Ricotti, M., Saikia, P., Hathi, N. P., Smith, B., Holwerda, B. W., & Kelly, P. 2025, ApJS, submitted (astro-ph/2506.12175)

368) “Galaxy-Scale Lens Search in the PEARLS NEP TDF and CEERS JWST Fields”

Ferrami, G., Adams, N. J., Westcott, L., Harvey, T., Jansen, R. A., Diego, J. M., Estrada-Carpenter, V., Windhorst, R. A., Conselice, C. J., Koekemoer, A. M., D’Silva, J. C. J., Willmer, C., Wyithe, J. S. B., Rutkowski, M. J., Cohen, S. H., Frye, B. L., & Grogin, N. A. 2025, MNRAS, submitted (astro-ph/2505.17318)

367) “JWST’s PEARLS: NIRCcam Imaging and NIRISS Spectroscopy of a $z=3.6$ Star-forming Galaxy Lensed into a near-Einstein Ring by a $z=1.258$ Massive Elliptical Galaxy”

Adams, N. J., Ferrami, G., Westcott, L., Harvey, T., Estrada-Carpenter, V., Conselice, C. J., Austin, D., Wyithe, J. S. B., Goolsby, C. M., Li, Q., Rusakov, V., Windhorst, R. A., Cohen, S. H., Jansen, R. A., Summers, J., O’Brien, R., Koekemoer, A. M., Driver, S. P., Frye, B., Hathi, N. P., Coe, D., Grogin, N. A., Marshall, M. A., Pirzkal, N., Ryan, R. E., Jr., Willmer, C. N. A., Yan, H., Holwerda, B. W., Kamienieski, P. S., Broadhurst, T., Maksym, W. P., Saikia, P., & Gelfand, J. D. MNRAS, submitted (astro-ph/2504.03571)

366) “Self-Consistent JWST Census of Star Formation and AGN activity, at $z=5.5-13.5$ ”

D'Silva, J. C. J., Driver, S. P., Lagos, C. D. P., Robotham, A. S. G., Adams, N. J., Conselice, C. J., Frye, B., Hathi, N. P., Harvey, T., Ortiz, R., III, Ricotti, M., Robertson, C., Silver, R. M., Wilkins, S. M., Willmer, C. N. A., Windhorst, R. A., Cohen, S. H., Jansen, R. A., Summers, J., Koekemoer, A. M., Coe, D., Grogin, N. A., Marshall, M. A., Nonino, M., Pirzkal, N., Ryan, R. E., Jr., & Yan, H. 2025, A&A, submitted (astro-ph/2503.03431)

- 365) “Extending the Cosmic Distance Ladder two orders of magnitude with Strongly Lensed Cepheids, Carbon AGB, and RGB stars”
Diego, J. M., Willner, S. P., Palencia, J. M., & Windhorst, R. A. 2025, A&A, submitted (astro-ph/2410.09162)
- 364) “Galaxy Mergers in the Epoch of Reionization II: Major Merger-Triggered Star Formation and AGN Activities at $z=4.5-8.5$ ”
Duan, Q., Li, Q., Conselice, C. J., Harvey, T., Austin, D., Adams, N. J., Ferreira, L., Duncan, K., J., Trussler, J., Pascalau, R. G., Windhorst, R. A., Holwerda, B. W., Broadhurst, T. J., Coe, D., Cohen, S. H., Du, X., Driver, S. P., Frye, B., Grogin, N. A., Hathi, N. P., Jansen, R. A., Koekemoer, A. M., Marshall, M. A., Nonino, M., Ortiz III, R., Pirzkal, N., Robotham, A., Ryan Jr., R. E., Summers, J., D'Silva, J. C. J., Willmer, C. N. A., & Yan, H. 2024, MNRAS, submitted (astro-ph/2411.04944)
- 363) “EPOCHS III: Unbiased UV continuum slopes at $6.5 < z < 13$ from combined PEARLS GTO and public JWST NIRCам imaging”
Austin, D., Conselice, C. J., Adams, N. J., Harvey, T., Duan, Q., Trussler, J., Li, Q., Juodzbailis, I., Ormerod, K., Ferreira, L., Westcott, L., Harris, H., Wilkins, S. M., Bhatawdekar, R., Caruana, J., Coe, D., Cohen, S. H., Driver, S. P., D'Silva, J. C. J., Frye, B., Furtak, L. J., Grogin, N. A., Hathi, N. P., Holwerda, B. W., Jansen, R. A., Koekemoer, A. M., Marshall, M. A., Nonino, M., Ortiz, R., III, Pirzkal, N., Robotham, A., Ryan, R. E., Jr., Summers, J., Willmer, C. N. A., Windhorst, R. A., Yan, H., & Zackrisson, E. 2024, ApJ, submitted (astro-ph/2404.10751)
- 362) “A Smooth Filament Origin for Prolate Galaxies ”Going Bananas” in Deep JWST Images”
Pozo, A., Broadhurst, T., Emami, R., Mocz, P., Vogelsberger, M., Hernquist, L., Conselice, C. J., Nhan Luu, H., Smoot, G. F., & Windhorst, R. 2024, Nature Astron., resubmitted (astro-ph/2407.16339)

6.b Refereed papers (published or in press)

- 361) “JWST’s PEARLS: A $z=6$ Quasar in a Train-Wreck Galaxy Merger System”
Marshall, M. A., Windhorst, R. A., Ferrami, G., Willner, S. P., Polletta, M., Keel, W. C., Fazio, G. G., Cohen, S. H., Carleton, T., Jansen, R. A., Honor, R., Ortiz, R., III, Summers, J., D'Silva, J. C. J., Koekemoer, A. M., Coe, D., Conselice, C. J., Diego, J. M., Driver, S. P., Frye, B., Grogin, N. A., Pirzkal, N., Robotham, A., Ryan, R. E., Jr., Willmer, C. N. A., Yan, H., Ricotti, M., Zitrin, A., Adams, N. J., Cheng, C., Wyithe, J. S. B., Lim, J., Perna, M., Ubler, H., Willott, C. J., Jones, G., Scholtz, J., & Mechtley, M. 2025, A&A, in press (astro-ph/2502.20550)
- 360) “SKYSURF VIII – Modeling SKYSURF Completeness Data for Comparison to the Hubble Space Telescope Exposure Time Calculator”
Goisman, Z., Carleton, T., Cohen, S. H., Carter, D., Windhorst, R. A., O'Brien, R., & Weissbluth, E. 2025, PASP, in press (astro-ph/2508.08484)
- 359) “PEARLS: Globular Clusters and Ultra-Compact Dwarfs in the El Gordo Galaxies at $z = 0.87$ ”
Harris, W. E., Reina-Campos, M., Koekemoer, A. M., Berkheimer, J. M., Carleton, T., Cohen, S. H., Frye, B. L., Hinrichs, T. R., Holwerda, B. W., Honor, R., Ricotti, M., Willner, S. P., Windhorst, R. A., & Yan, H. 2025, ApJ, in press (astro-ph/2508.12862)
- 358) “Lonely Little Red Dots: Challenges to the AGN-nature of Little Red Dots through their Clustering and Spectral Energy Distributions”

- Carranza-Escudero de las Mercedes M., Conselice, C. J., Adams, N., Harvey, T., Austin, D., Behroozi, P., Ferreira, L., Ormerod, K., Duan, Q., Trussler, J., Li, Q., Westcott, L., Windhorst, R. A., Coe, D., Cohen, S. H., Cheng, C., Driver, S. P., Frye, B., Furtak, L. J., Grogin, N. A., Hathi, N. P., Jansen, R. A., Koekemoer, A. M., Marshall, M. A., O'Brien, R., Pirzkal, N., Polletta, M., Robotham, A., Rutkowski, M. J., Summers, J., Wilkins, S. M., Willmer, C. N. A., Yan, H., & Zitrin, A. 2025, *ApJL*, in press (astro-ph/2506.04004)
- 357) “Unveiling the Cosmic Gems Arc at $z \simeq 10.2$ with JWST”
Bradley, L. D., Adamo, A., Vanzella, E., Sharon, K., Brammer, G., Coe, D., Diego, J. M., Kokorev, V., Mahler, G., Oguri, M., Abdurro'uf, Bhatawdekar, R., Christensen, L., Fujimoto, S., Hashimoto, T., Hsiao, T. Y.-Y., Inoue, A. K., Jiménez-Teja, Y., Messa, M., Norman, C., Ricotti, M., Tamura, Y., Windhorst, R. A., Xu, X., & Zitrin, A. 2024, *ApJ*, in press (astro-ph/2404.10770)
- 356) “Mapping Interstellar Dust and Reddening Slopes in the Near-Infrared with Occulting Galaxy Pair VV191”
Robertson, C. D., Holwerda, B. W., Castellano, I., Cook, K. W., Berkheimer, J. M., Keel, W. C., Koekemoer, A. M., Nasr, C., Patel, D., & Windhorst, R. A. 2024, *ApJ*, in press
- 355) “PASSAGES: The Discovery of a Strongly Lensed Protocluster Core Candidate at Cosmic Noon”
Foo, N., Harrington, K. C., Frye, B., Kamieneski, P. S., Yun, M. S., Pascale, M., Yoon, I., Noble, A., Windhorst, R. A., Cohen, S. H., Lowenthal, J. D., Kaasinen, M., Alcalde P. B., Liu, D., Cooper, O., Garcia, D. C., Diaz, A., Diego, J., Garuda, N., Jimenez-Andrade, E. F., Leimbach, R., Vishwas, A., Wang, Q. D., Zhou, D., & Zitrin, A. 2025, *ApJ*, in press (astro-ph/2504.05617)
- 354) “JWST lens model for A370: A Very Low Dark Matter Fraction for a Brightest Cluster Galaxy and Lensing Properties for the Dragon Arc”
Diego, J. M., Sun, F., Palencia, J. M., Lin, X., Limousin, M., Gledhill, R., Niemiec, A., Chen, W., Windhorst, R. A., Struble, M. F., & Broadhurst, T. 2025, *ApJ*, in press (astro-ph/2506.11207)
- 353) “Microlensing at Cosmological Distances: Event Rate Predictions in the Warhol Arc of MACS 0416”
Palencia, J. M., Diego, J. M., Dai, L., Pascale, M., Windhorst, R., Koekemoer, A. M., Li, S. K., Kavanagh, B. J., Sun, F., Alfred, A., Meena, A. K., Broadhurst, T. J., Kelly, P. L., Perera, D., Williams, H., & Zitrin, A. 2025, *ApJ*, in press (astro-ph/2504.07039)
- 352) “Cosmic Stillness: High Quiescent Galaxy Fractions Across Upper Mass Scales in the Early Universe to $z = 7$ with JWST”
Russell, T. A., Dobric, N., Adams, N. J., Conselice, C. J., Austin, D., Harvey, T., Trussler, J., Ferreira, L., Westcott, L., Harris, H., Windhorst, R. A., Coe, D., Cohen, S. H., Driver, S. P., Frye, B., Grogin, N. A., Hathi, N. P., Jansen, R. A., Koekemoer, A. M., Marshall, M. A., Ortiz III, R., Pirzkal, N., Robotham, A., Ryan Jr, R. E., Summers, J., D'Silva, J. C. J., Willmer, C. N. A., Yan, H. 2024, *MNRAS*, submitted (astro-ph/2412.11861) O'Connell, R., Rafelski, M., Scarlata, C., Teplitz, H. I., Wang, X., Windhorst, R., Yung, A., & the UVCANDELS Team 2025, *ApJ*, in press
- 351) “DIISC-V: Variations in H α -to-FUV Star Formation Rate Ratios Across Star-forming Regions in Nearby Galaxies”
Padave, M., Borthakur, S., Jansen, R. A., Thilke, D., Monkiewicz, J., Windhorst, R. A. 2024, *ApJ*, in press (astro-ph/2407.16690)
- 350) “Positive Neutrino Masses with DESI DR2 via Matter Conversion to Dark Energy”
Ahlen, S., Aviles, A., Cartwright, B., Croker, K. S., Elbers, W., Farrah, D., Fernandez, N., Niz, G., Rohlf, J., Tarle, G., Windhorst, R. A., Aguilar, J., Andrade, U., Bianchi, D., Brooks, D., Claybaugh, T., de la Macorra, A., de Mattia, A., Dey, B., Doel, P., Forero-Romero, J. E., Gaztanaga, E., Gontcho, S. A., Gutierrez, G., Huterer, D., Ishak, M., Kehoe, R., Kirkby, D., Kremin, A., Lahav, O., Lamman, C., Landriau, M., Le Guillou, L., Levi, M. E., Manera, M., Miquel, R., Moustakas, J., Perez-Rafols, I., Prada, F., Rossi, G., Sanchez, E., Schubnell, M., Seo, H., Silber, J., Sprayberry, D., Walther, M., Weaver, B. A., Wechsler, R. H., & Zou, H. 2025, *Phys. Rev. Lett.*, 125, 081003 (astro-ph/2504.20338v2)

- 349) “Peering into the Heart of Darkness with VLBA : Radio Quiet AGN in the JWST North Ecliptic Pole Time-Domain Field”
Saikia, P., Wrzosek, R., Gelfand, J., Briskin, W., Cotton, W., Gim, H. B., Windhorst, R. A., Estrada-Carpenter, V., Katkov, I. Y., Zaw, I., Rosenthal, M., Shafi, H., Kellermann, K., Condon, J., Cohen, S. H., Jansen, R. A., Summers, J., J. D’Silva, J. C., Koekemoer, A. M., Conselice, C. J., Driver, S. P., Frye, B., Grogin, N. A., Hammel, H. B., Marshall, M. A., Ortiz III, R., Pirzkal, N., Robotham, A., Ryan Jr., R. E., Willmer, C. N. A., Yan, H., & Yun, M. S. 2025, ApJ, 989, 29 (24 pp)
- 348) “Explaining JWST Counts with Galaxy Formation Models”
Manzoni, G., Broadhurst, T., Lim, J., Liu, T., Smoot, G., Baugh, C. M., Tompkins, S., Windhorst, R., Driver, S., Carleton, T., Frye, B., Fung, L., Zhang, J., Cohen, S. H., Conselice, C. J., Grogin, N. A., Jansen, R. A., Koekemoer, A. M., Ortiz III, R., Pirzkal, N., & Willmer, C. N. A. 2025, ApJ, 988, 264 (15 pp) (astro-ph/2502.04702)
- 347) “Magnification Bias Reveals Severe Contamination in Hubble Frontier Field Photo-z Catalogs”
Zhang, J., Lim, J., Broadhurst, T., Li, S.-K., Cheung Li, M., Manzoni, G., & Windhorst, R. 2025, ApJ, 988, 279 (13 pp) (astro-ph/2507.09142)
- 346) “Constraining the $z \sim 1$ Initial Mass Function with *HST* and *JWST* Lensed Stars in MACS J0416.1-2403”
Li, S. K., Diego, J. M., Meena, A. K., Lim, J., Fung, L. W. H., Levitskiy, A., Nianias, J., Palencia, J. M., Williams, H., Zhang, J., Amruth, A., Broadhurst, T. J., Chen, W., Filippenko, A. V., Kelly, P. L., Koekemoer, A. M., Perera, D., Sun, B., Williams, L. L. R., Windhorst, R. A., Yan, H., & Zitrin, A. 2025, ApJ, 988, 178 (16 pp) (astro-ph/2504.06992)
- 345) “GNHeII J1236+6215: A He II $\lambda 1640$ Emitting and Potentially LyC Leaking Galaxy at $z = 2.9803$ Unveiled through JWST & Keck Observations”
Mondal, C., Saha, K., Borgohain, A., Smith, B. M., Windhorst, R. A., Reddy, N., Chen, C.-C., Umetsu, K., Jansen, R. A. 2025, ApJ, 988, 171 (19 pp) (astro-ph/2506.06831)
- 344) “Medium-band Astrophysics with the Grism of NIRCам In Frontier fields (MAGNIF): Spectroscopic Census of H α Luminosity Functions and, Cosmic Star Formation at $z \sim 4.5$ and 6.3”
Fu, S., Sun, F., Jiang, L., Lin, X., Diego, J. M., Furtak, L. J., Jauzac, M., Koekemoer, A. M., Li, M., Oguri, M., Patel, N. R., Willmer, C. N. A., Windhorst, R. A., Zitrin, A., Bauer, F. E., Chen, C.-C., Chen, W., Cheng, C., Conselice, C. J., Eisenstein, D. J., Egami, E., Espada, D., Fan, X., Fujimoto, S., Hsiao, T. Y.-Y., Jin, X., Kohno, K., Lagattuta, D. J., Li, Z., Liu, W., Miralda-Escude, J., Ning, Y., Tacchella, S., Tee, W. L. Umehata, H., Wang, F., Yan, H., & Zhu, Y., 2025, ApJ, 987, 186 (19 pp) (astro-ph/2503.03829)
- 343) “Galaxy Mergers in the Epoch of Reionization I: A JWST Study of Pair Fractions, Merger Rates, and Stellar Mass Accretion Rates at $z=4.5-11.5$ ”
Duan, Q., Conselice, C. J., Li, Q., Austin, D., Harvey, T., Adams, N. J., Duncan, K. J., Trussler, J., Ferreira, L., Westcott, L., Harris, H., Windhorst, R. A., Holwerda, B. W., Broadhurst, T. J., Coe, D., Cohen, S. H., Driver, S. P., Frye, B., Grogin, N. A., Hathi, N. P., Jansen, R. A., Koekemoer, A. M., Marshall, M. A., Nonino, M., Ortiz III, R., Pirzkal, N., Robotham, A., Ryan, Jr., R. E., Summers, J., D’Silva, J. C. J., Willmer, C. N. A., & Yan, H. 2024, MNRAS, 540, 774–805 (32 pp) (astro-ph/2411.04944)
- 342) “Galaxy Rest-Frame UV Colors at $z \approx 2-4$ with HST UVCANDELS”
Morales, A., Finkelstein, S., Bagley, M., Alavi, A., Grogin, N., Hathi, N., Koekemoer, A., Nedkova, K., Prichard, L., Rafelski, M., Sunnquist, B., Taamoli, S., Teplitz, H., Wang, X., Windhorst, R., & Yung, L. Y. A. 2024, ApJ, 985, 174 (13 pp) (astro-p/2405.10901)
- 341) “The Tale of Two Telescopes: How Hubble Uniquely Complements the James Webb Space Telescope: Galaxies”
Windhorst, R. A., Summers, J., Carleton, T., Cohen, S. H., Croker, K. S., Jansen, R. A., O’Brien, R., Smith, B. M., Conselice, C. J., Diego, J. M., Driver, S. P., Frye, B., Holwerda, B., & Yan, H.

2025, J. BAAS, 57, 1, (41 pp) (astro-ph/2410.01187v1) <https://doi.org/10.3847/25c2cfefb61a04>
or <https://baas.aas.org/pub/2025i009/release/1>

- 340) “Stellar Populations and Molecular Gas Composition in the Low-Metallicity Environment of WLM”
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Oort, M. J. A., & Windhorst, R. A. 1985, *A&A*, 145, 405–424
- 007) “Sub-MilliJansky 1.4 GHz Source Counts and Multicolor Studies of Weak Radio Galaxy Populations”
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- 006) “Near Infrared Photometry of Faint Radio Galaxies in Selected Areas”
Thuan, T. X., Windhorst, R. A., Puschell, J. J., Isaacman, R. B., & Owen, F. N. 1984, *ApJ*, 285, 515–526
- 005) “A Deep Westerbork Survey of Areas with Multicolor Mayall 4 m Plates. II. Optical Identifications”
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- 004) “A Deep Westerbork Survey of Areas with Multicolor Mayall 4 m plates. I. The 1412 MHz Catalogue, Source Counts and Angular Size Statistics”
Windhorst, R. A., van Heerde, G. M., & Katgert, P. 1984, *A&AS*, 58, 1–37
- 003) “Einstein X-ray Observations of Optical-Radio Selected Areas”
Katgert, P., Thuan, T. X., & Windhorst, R. A. 1983, *ApJ*, 275, 1–7
- 002) “New VBLUW Observations of the X-ray Binary HD 153919 (4U 1700-37)”
van Genderen, A. M., Windhorst, R. A., van Driel, W., Bakker, R., Wesselink, T. J. H., & Hammerschlag-Hensberge, G. 1981, *A&AS*, 44, 83–86

- 001) “New VBLUW Photometry of the X-ray Binary HD 153919 (4U 1700-37). The Optical Micro Variability of the O6.5f Supergiant”
van Genderen, A. M., & Windhorst, R. A. 1981, A&A, 97, 79–84

6.c Papers in preparation for refereed journals

- 380) “The James Webb Space Telescope North Ecliptic Pole Time-Domain Field. III. UV–Visible Source Photometry and Characterization with the Hubble Space Telescope Wide Field Camera 3 and Advanced Camera for Surveys”
Jansen, R. A., Grogin, N. A., Ashcraft, T., Cohen, S., Jones, V., White, C., Windhorst R. A., Briskin, W., Conselice, C., Driver, S., Finkelstein, S., Frye, B., Hathi, N., Joshi, B., Kim, D., Koekemoer, A., Maksym, W., Riess, A., Rodney, S., Royle, P., Ryan, R., Smith, B., Strolger, L., & Willmer, C. 2024, PASP, in preparation
- 379) “Large Binocular Camera *Ugriz* Imaging of the *JWST* North Ecliptic Pole Survey Field”
Jansen, R. A., Ashcraft, T. A., Joshi, B., Windhorst, R. A., Rieke, M. J., Cohen, S. H., Willmer, C., et al. 2024, PASP, in preparation

6.d Invited review papers (published or in press)

- 34) “Galaxy Science with ORCAS: Faint Star-Forming Clumps to $AB \lesssim 31$ mag and $r_e \gtrsim 0''.01$ ”
Windhorst, R. A., Carleton, T., Cohen, S. H., Jansen, R., O’Brien, R., Tompkins, S., Coe, D., Diego, J. M., & Welch, B. 2021, White paper to the NASA ORCAS Science Working Group (<https://arxiv.org/abs/2106.02664>)
- 33) “SPHEREx: NASA’s Near-Infrared Spectrophotometric All-Sky Survey”
Crill, B. P., Werner, M., Akeson, R., Ashby, M., Bleem, L., Bock, J. J., Bryan, S., Burnham, J., Byunh, J., Chang, T.-C., Chiang, Y.-K., Cook, W., Cooray, A., Davis, A., Doré, O., Dowell, C. D., Dubois-Felsmann, G., Eifler, T., Faisst, A., Habib, S., Heinrich, C., Heitmann, K., Heaton, G., Hirata, C., Hristov, V., Hui, H., Jeong, W., Kang, J.-H., Kecman, B., Kirkpatrick, J. D., Korngut, P. M., Krause, E., Lee, B., Lisse, C., Masters, D., Mauskopf, P., Melnick, G., Miyasaka, H., Nayyeri, H., Nguyen, H., Oberg, K., Padin, S., Paladini, R., Pourrahmani, M., Pyo, J., Smith, R., Song, Y.-S., Symons, T., Teplitz, H., Tolls, V., Unwin, S., Windhorst, R., Yang, Y., & Zemcov, M., 2020, Proc. SPIE, Vol. 11443, “Space Telescopes and Instrumentation 2020: Optical, Infrared, and Millimeter Wave” (<https://doi.org/10.1117/12.2567224>)
- 32) “SPHEREx: An All-Sky NIR Spectral Survey”
Korngut, P. M., Bock, J. J., Akeson, R., Ashby, M., Bleem, L., Boland, J., Bolton, D., Bradford, S., Braun, D., Bryan, S., Capak, P., Chang, T.-C., Coffey, A., Cooray, A., Crill, B., Doré, O., Eifler, T., Feng, C., Habib, S., Heitmann, K., Hemmati, S., Hirata, C., Jeong, W.-S., Kim, M., Kirkpatrick, J. D., Kowalkowski, T., Krause, E., Lisse, C., Mauskopf, P., Masters, D., McGuire, J., Melnick, G., Nguyen, H., Nayyeri, H., Oberg, K., de Putter, R., Purcell, W., Rocca, J., Runyan, M., Sandstrom, K., Smith, R., Song, Y.-S., Stickley, N., Stober, J., Susca, S., Teplitz, H., Tolls, V., Unwin, S., Werner, M., Windhorst, R., & Zemcov, M. 2018, in “Space Telescopes and Instrumentation 2018: Optical, Infrared, and Millimeter Wave”, Eds. M. Lystrup, H. A. MacEwen, & G. G. Fazio, Proc. SPIE, Vol. 10698, 106981U
- 31) “Science Impacts of the SPHEREx All-Sky Optical to Near-Infrared Spectral Survey II”
Doré, O., Werner, M. W., Ashby, M. L., Bleem, L. E., Bock, J., Burt, J., Capak, P., Chang, T.-C., Chaves-Montero, J., Chen, C. H., Civano, F., Cleaves, I. I., Cooray, A., Crill, B., Crossfield, I. J. M., Cushing, M., de la Torre, S., Di Matteo, T., Dvory, N., Dvorkin, C., Espaillat, C., Ferraro, S., Finkbeiner, D., Greene, J., Hewitt, J., Hogg, D. W., Hufferberger, K., Ilbert, O., Jeong, W.-S., Johnson, J., Jun, H.-S., Kim, M., Kirkpatrick, J. D., Kowalski, T., Korngut, P., Li, J., Lisse, C. M., MacGregor, M., Mamajek, E. E., Mauskopf, P., Melnick, G., Ménard, B., Neyrinck, M., Oberg, K., Pisani, A., Rocca, J., Salvato, M., Schaan, E., Scoville, N. Z., Song, Y.-S., Stevens, D. J.,

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- 30) “Science Impacts of the SPHEREx All-Sky Optical to Near-Infrared Spectral Survey”
Doré, O., Werner, M., Ashby, M., Banerjee, P., Battaglia, N., Bauer, J., Benjamin, R. A., Bleem, L. E., Bock, J., Boogert, A., Bull, P., Capak, P., Chang, T.-C., Chiar, J., Cohen, S. H., Cooray, A., Crill, B., Cushing, M., de Putter, R., Driver, S. P., Eifler, T., Feng, C., Ferraro, S., Finkbeiner, D., Gaudi, B. S., Greene, T., Hillenbrand, L., Höflich, P. A., Hsiao, E., Huppenberger, K., Jansen, R. A., Jeong, W.-S., Joshi, B., Kim, D., Kim, M., Kirkpatrick, J. D., Korngut, P., Krause, E., Kriek, M., Leistedt, B., Li, A., Lisse, C., Malhotra, S., Mauskopf, P., Mechtley, M., Melnick, G., Mohr, J., Murphy, J., Neben, A., Neufeld, D., Nguyen, H., Pierpaoli, E., Pyo, J.-H., Rhoads, J. E., Rhodes, J., Sandstrom, K., Schaan, E., Schlaufman, K., Silverman, J., Su, K., Stassun, K., Stevens, D., Strauss, M., Tielens, X., Tsai, C.-W., Tolls, V., Unwin, S., Viero, M., Windhorst, R. A., & Zemcov, M. 2016, Report of a Community Workshop Examining Extragalactic, Galactic, Stellar and Planetary Science (NASA, IPAC) (astro-ph/1606.07039)
 - 29) “Observing Galaxy Assembly with the James Webb Space Telescope”
Windhorst, R. A., 2013, in Space Telescope Science Institute Newsletter, Vol. 30, Issue 2, pg. 31–34, Ed. R. A. Brown (<https://blogs.stsci.edu/newsletter/volume-30-issue-02/> ; Baltimore: Space Telescope Science Institute)
 - 28) “How HST/WFC3 and JWST can Measure Galaxy Assembly and AGN Growth”
Windhorst, R. A., & Cohen, S. H. 2010, in Proc. of the UT Austin Workshop on “The First Stars and Galaxies: Challenges for the Next Decade”, Eds. D. J. Whalen & V. Bromm, AIP Conf. Proc., Vol. 1291, p. 225–233
 - 27) “GiGa”: the Billion Galaxy HI Survey — Tracing Galaxy Assembly from Reionization to the Present.”
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 - 26) “The James Webb Space Telescope”
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 - 25) “High Resolution Science with High Redshift Galaxies”
Windhorst, R. A., Hathi, N. P., Cohen, S. H., Jansen, R. A., Kawata, D., Driver, S. P., & Gibson, B. 2008, in Proceedings of the 36th COSPAR Scientific Assembly on “Challenges in High Resolution Space Astronomy: Astrophysics, Technology and Data”, Eds. M. A. Shea et al. (Amsterdam: Elsevier), J. Adv. Space Res., Vol. 41, 1965–1971 (refereed review paper; astro-ph/0703171; Epub: www.sciencedirect.com, doi: 10.1016/j.asr.2007.07.005)
 - 24) “The James Webb Space Telescope”
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 - 23) “Science with the James Webb Space Telescope”
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- 22) “Did Galaxy Assembly and Supermassive Black-Hole Growth go hand-in-hand?”
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 - 21) “Generation-X: an X-ray Observatory designed to observe First Light Objects”
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 - 20) “How JWST can measure First Light, Reionization and Galaxy Assembly”
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 - 19) “HST mid-UV Imaging of Nearby Galaxies”
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 - 18) “The MicroJansky and NanoJansky Population”
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 - 17) “Nature and Evolution of Faint Radio Source Populations”
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 - 16) “Leaving the Dark Ages: Unmasking the Mask – Conference Summary”
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 - 15) “Young and Old Galaxies at High Redshift”
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 - 14) “The Vigor of Radio Astronomy at Hy Age: A Review of Faint Radio Source Populations”
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- 13) “Clues from Deep HST Images to Galaxy Formation and the Role of Mergers”
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- 12) “Constraints from milliJansky and microJansky Radio Sources: Clues to (Radio) Galaxy Formation from Deep HST Images”
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- 11) “Results from Parallel and Other Deep HST Surveys: Galaxy Counts vs. Type for $19 \lesssim B \lesssim 29$, & Galaxy Formation from Sub-galactic Clumps”
Windhorst, R., Pascarelle, S., Odewahn, S., Cohen, S., Burg, C., Keel, W., & Driver, S. 1998, in “The Hubble Deep Field”, Eds. M. Livio, S. M. Fall, & P. Madau (Cambridge University Press), STScI Conf. Proc., 481–505
- 10) “The HST Medium Deep Survey: Progress Towards Resolution of the Faint Blue Galaxy Problem”
Griffiths, R. E., Ratnatunga, K. U., Casertano, S., Im, M., Neuschaefer, L. W., Ostrander, E. J., Ellis, R. S., Glazebrook, K., Windhorst, R. A., Driver, S. P., Mutz, S. B., Green, R. F., Sarajedini, V., Huchra, J. P., & Tyson, J. A. 1997, in the Sesto International Workshop on “Observational Cosmology: From Galaxies to Galaxy Systems”, Eds. F. Mardirossian & G. Palumbo, Ap. Lett. Comm. 36, 355–364
- 09) “Morphological Number-Counts from Ultradeep HST Images”
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- 08) “Caught in the Act: The Identification of the Galaxies Responsible for the Faint Blue Excess”
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- 07) “The Nature of Faint Galaxies from the Medium Deep Survey and Other Deep HST Images”
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- 06) “The Evolution of Weak Radio Galaxies at Radio and Optical Wavelengths”
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- 05) “Future Prospects of Supercomputers in Observational Astronomy”
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- 04) “Is the Upturn in the Source Counts Caused by Primeval Radio Galaxies?”
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- 03) “The Cosmological Evolution of Radio Sources”

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- 02) “Evidence from Deep Radio Surveys for Cosmological Evolution”
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- 01) “The Second Anniversary of the Einstein Observatory: The Relevance of Modern X-ray Astronomy to Cosmology” (in Dutch).
Windhorst, R. A. 1980, in *Ruimtevaart*, 29, 270–303

6.e Books and chapters of books

- 3) “Tracking Cosmic Star Formation: Continuum Deep Field”
Murphy, E., Condon, J., Carilli, C., de Breuck, C., Maccarone, T., Röttgering, H., & Windhorst, R. 2009, in “The Square Kilometer Array Design Reference Mission: SKA-mid and SKA-lo”, Chapter 6, pg. 41–49 <http://www.skatelescope.org/>
- 2) “Radio Sources and Cosmology”
Windhorst, R. A. 1991, in “The Astronomy and Astrophysics Encyclopedia”, Ed. S. Maran (Florence KY: Van Nostrand Reinhold), 591–595 (refereed).
- 1) “The Columbus Project Phase 1 Report”
Kron, R. G. et al. incl. Windhorst, R. A., 1988, in “Columbus Project Phase 1 Report”, Report for the Columbus Project Council by the Scientific Advisory Committee, Edition 2.0, (University of Chicago: Yerkes Observatory), 1–196

6.f Non-refereed research papers (published or in press)

- 137) “Discovery of Photodissociation Region in Overlapping Galaxy Pair VV 191 with HST and JWST”
Robertson, C. D., Holwerda, B. W., Berkheimer, J. M., Cook, K. W., Keel, W. C., & Windhorst, R. A. 2025, *RNAAS*, 9, 90 (3 pp)
- 136) “SKYSURF-7: Exploring PSF Contamination in Diffuse Sky Measurements with HST”
Conrad, L. R., O’Brien, R., Carter, D., Pigarelli, A., Windhorst, R. A., Carleton, T., Cohen, S. H., Jansen, R. A., & Ortiz III, R., 2025, *RNAAS*, 9, 54 (3 pp)
- 135) “ORCAS Keck Mission and Instrument Development”
Peretz, E., Wizinowich, P., Marin, E., Butler, R., Pasquale, B., Millar-Blanchaer, M. A., Lilley, S., Gers, L., Hung Kwok, S., Chin, J., Ragland, S., Wetherell, E., Smith, B., O’Meara, J., Kassis, M., Aldering, G., Deustua, S., Windhorst, R., Marois, C., Perlmutter, S., Seager, S., Sitarski, B., Filion, G., Landry, J. T., Gauvin, G., Fowler, J., Jensen-Clem, R., Nielsen, E. L., de Pater, I., Plavchan, P., Sallum, S., Satyapal, S., Mather, J., Kurczynski, P., Carmical, K., Grossman, J., Lewis, A., Wertheim, M., Palmer, V., Shavit, K., & Hall K. 2024, in “Ground-based and Airborne Instrumentation for Astronomy X”, SPIE Proc. Vol. 13096, p. 130960 (<https://doi.org/10.1117/12.3018920>)
- 134) “New Spectroscopic Redshift Places PEARLSDG in a Group at ~ 124 Mpc”
Carleton, T., Willner, S., Ellsworth-Bowers, T., Windhorst, R., Cohen, S., Conselice, C., Diego, J., Zitrin, A., Archer, H., McIntyre, I., Kamieneski, P., A. Jansen, R., Summers, J., D’Silva, J., Koekemoer, A., Coe, D., Driver, S., Frye, B., Grogin, N., Marshall, M., Nonino, M., Pirzkal, N., Robotham, A., Ryan, R., Ortiz III, R., Tompkins, S., Willmer, C., Yan, H., & Holwerda B. 2024, *RNAAS*, 8, 181 (4 pp)

- 133) “SKYSURF-5: Probing the Integrated Galaxy Light with a SDSS-SKYSURF Cross-Matched Catalog”
Bhatia, P., Carleton, T., Windhorst, R., Jansen, R. & O’Brien, R. 2024, RNAAS, 8, 154 (4 pp)
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- 246) “The NuSTAR and XMM extragalactic survey of the James Webb Space Telescope North Ecliptic Pole time-domain field”
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- 243) “Star-Forming Clumpy Galaxies in UVCANDELS at $0.5 \lesssim z \lesssim 3$ ”
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- 242) “Reconstructing Spatially Resolved Star Formation Histories with UVCANDELS”
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- 241) “UV Size Evolution of Disk Galaxies”
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- 240) “The Evolution of Galaxy Rest-Frame UV Colors from $z = 2-4$ with UVCANDELS”
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- 239) “UV-Bright Star-Forming Clumps and Their Host Galaxies in UVCANDELS at $0.5 \lesssim z \lesssim 1$ ”
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- 238) “The UVCANDELS Photometric Catalogs and UV Luminosity Function at Cosmic Noon in the CANDELS fields”
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- 237) “SKYSURF-4: Panchromatic Full Sky Surface Brightness Measurement Methods and Results”

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- 236) "UV-near-IR observations with JWST and HST in the JWST North Ecliptic Pole Time-Domain Field"
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- 235) "Modeling Variations in the Thermal Background of the Hubble Space Telescope"
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- 234) "JWST reveals a $z \sim 11$ galaxy merger in triply-lensed MACS0647-JD"
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- 233) "JWST's PEARLS: Prime Extragalactic Areas for Reionization and Lensing Science: Project Overview and First Results"
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- 232) "A Self-Consistent Model for the Population of Disk Brown Dwarfs"
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- 231) "Recent star formation in quiescent $z=1$ galaxies"
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- 230) "Investigating the Dominant Environmental Quenching Process in UVCANDELS/COSMOS Groups"
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- 229) "Demographics of Giant UV Star-forming Clumps in Galaxies at $0.5 < z < 1$ in UVCANDELS"
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- 228) "A resolved analysis of star-formation indicators at $z \sim 1$ with UVCANDELS"
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- 227) "The Lyman Continuum Escape Fraction of Galaxies and AGN at $z > 2.4$ in the UVCANDELS fields"
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- 225) “HST: Hot or Cold? Improving Constraints on the Thermal Foreground of HST”
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- 224) “SKYSURF: Preliminary 0.2-1.7 μm Sky Surface Brightness Measurements with Hubble”
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- 223) “UV-Visible observations with HST in the JWST North Ecliptic Pole Time-Domain Field. IV. A Cycle 28+29 update”
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- 218) “Interactive Cosmology Visualization Using the Hubble UltraDeep Field Data in the Classroom”
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- 217) “Constraining the Lyman continuum escape fraction at $z \simeq 2.4$ with UVCANDELS”
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- 215) “First science results from UVCANDELS”
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- 214) “Deep Large Binocular Camera R-Band Observations of the GOODS-N Field and a Catalog of Interacting Galaxies”
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- 213) “Searching for Low-mass Stellar and Sub-stellar Objects in the JWST North Ecliptic Pole Time-Domain Field”
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- 212) “Analysis of the Spatially-Resolved V–3.6 μ m Colors and Dust Extinction within 257 Nearby NGC and IC Galaxies”
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- 211) “The Deep Chandra Campaign to Observe the JWST North Ecliptic Pole Time Domain Field”
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- 209) “New HST Imaging and Strong Gravitational Lensing Models of Galaxy-Overdense Fields Selected by Color Using Planck and Herschel”
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- 203) “Studying Cosmic Dawn with WFIRST”
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- 179) “Hubble”s Survey of the Ultraviolet Universe: Panchromatic Extragalactic Research” (SUPER)”
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- 178) “Mapping the Resolved Stellar Population of the Dwarf Starburst Galaxy NGC 4214”
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- 176) “A Search for $z \approx 0.5$ -1.1 Ly- α Blobs”
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- 174) “Investigating HST/WFC3 Selected Lyman Break Galaxies at $z=1-3$ ”
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- 167) “Multi-component SED Fitting Of AGN Host Galaxies”
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- 166) “The Evolution of Lyman Break Galaxies Between $z=1.5$ and $z=5.0$ ”
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- 165) “WFC3 Imaging of $z=6$ Quasars: Examining The Host Galaxies of AGN in the Early Universe”
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- 164) “”Observing” Images of a Simulated Universe: the High Redshift Luminosity Function”
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- 163) “Very Luminous Galaxy Population at $z > 7$ as Revealed by HIPPIES”
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- 162) “Probing Minor-merger-driven Star Formation in Early-type Galaxies using Spatially-resolved Spectro-photometric Studies”
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- 160) “Anatomy of an Early-type Minor Merger: Modeling the Young Stars and Their Kinematics in NGC 4150 Using The Wide Field Camera 3 (WFC3) and SAURON”
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- 158) “Recent star formation in 30 Doradus”
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- 157) “Using H-Alpha Morphology and Surface-Brightness Fluctuations to Age-Date Star Clusters in M83”
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- 156) “Properties of Seyfert Galaxies: Various Classification Parameters”
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- 155) “HST WFC3 Early Release Science: Emission-line Galaxies from IR Grism Observations”
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- 154) “WFC3 Imaging of $z=6$ QSO Hosts: A Method for PSF Characterization and Subtraction”
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- 153) “Resolved Stellar Populations in 50 Regions in M83”
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- 152) “The Size Scale of Stellar Groupings in M83: from Compact Clusters to Stellar Complexes”
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- 151) “Results From Medium Deep Near-UV Imaging With The HST/WFC3 Early Release Science Data”
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- 150) “First Results from HIPPIES: Constraint on the Very Bright End of Galaxy Luminosity Function at $z > 7$ ”

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- 148) “WFC3: Correction of UVIS Fringing Effects at Long Wavelengths”
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- 146) “WFC3: SMOV and Cycle 17 Calibration Programs”
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- 145) “WFC3: IR Detector On-Orbit Performance”
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- 144) “WFC3: Calibration Software, Products, And Reference Data”
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- 143) “WFC3: The Photometric Performance Of The UVIS And IR Cameras”
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- 141) “WFC3: UVIS and IR Flat Fields”
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- 140) “WFC3: Design and Development History”
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- 139) “WFC3: In-Flight Performance Highlights”
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- 138) “Using H-Alpha Morphology to Age-Date Star Clusters in M83”
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- 137) “Using HST-WFC3 Photometry to Classify Brown Dwarfs in the Field of NGC3603”
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- 136) "Population Study of Resolved Stars in M83"
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- 135) "The Size Scale of Stellar Groupings in M83: from Compact Clusters to Stellar Complexes"
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- 134) "HST/WFC3-IR Observations in M83"
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- 133) "Star-formation in 30 Doradus"
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- 132) "Recent Star Formation in the S0 galaxy NGC 4150"
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- 131) "The Mass and Luminosity Functions of Compact Star Clusters in M83"
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- 130) "HII Regions In M83: A Spatially-resolved Analysis With HST/WFC3"
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- 129) "A Panchromatic Study of NGC3603"
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- 128) "M83 Supernova Remnants as Revealed by HST/WFC3"
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- 127) "The High-z Universe as Viewed by WFC3"
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- 126) "Emission-Line Galaxies from the WFC3 Early Release Science Data: Grism Spectra from 0.6-1.6 microns"
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- 125) "Passively-Evolving Galaxies in the Early Release Science Deep Field"
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- 124) "A Panchromatic Catalogue of Early-Type Galaxies at Intermediate Redshift in the ERS-II Field"
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- 123) "HST/WFC3 Early Release Science in the GOODS-South: UV-Dropout Galaxies at z 2-3"

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- 122) “Ten-Band Photometric Study of Distant Galaxies in the WFC3 Early Release Science Data: Photometric Redshifts and Physical Properties”
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- 121) “Galaxy Sizes in the WFC3 Early Release Science Field”
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- 120) “The Hubble Space Telescope Wide Field Camera 3 Early Release Science Data: Panchromatic Faint Object Counts from 0.2-2 micron to AB=26-27 mag”
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- 118) “The HORUS Observatory — A Next Generation Mission to Study Planetary, Stellar and Galactic Formation”
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- 117) “Revealing the Stellar Populations Underlying the Dust in NGC 0959”
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- 116) “Design and Implementation of the Widefield High-resolution UV/Optical Star Formation Camera for the THEIA Mission”
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- 115) “From Cosmic Dawn to Our Solar System: Design Reference Science Program for the Star Formation Camera aboard the Theia Space Telescope”
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- 103) "The "Appreciating Hubble At Hyper-speed" Web-tool and Curriculum"
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- 101) "The Galaxy Merger Rate in the Hubble Ultra-Deep Field at $z>1$ "
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Griffiths, R. E., Ellis, R. S., Elson, R. A. W., Forbes, D., Gilmore, G., Glazebrook, K., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., Im, M., Neuschaefer, L. W., Pascarelle, S. M., Ratnatunga, K. U., Schade, D. J., Schmidt, M., Schmidtke, P. C., Shanks, T., Tyson, A., Windhorst, R. A., & Wyckoff, E. 1993, BAAS, 24
- 017) "The HST Medium-Deep Survey: Faint Galaxy Morphology to $V \sim 24$ "
Schade, D. J., Elson, R. A. W., Glazebrook, K., Ellis, R. S., Im, M., Griffiths, R. E., Ratnatunga, K. U., Forbes, D., Gilmore, G., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., Neuschaefer, L. W., Pascarelle, S. M., Schmidt, M., Schmidtke, P. C., Shanks, T., Tyson, A., Windhorst, R. A., & Wyckoff, E. 1992, BAAS, 24, 1300 (Abstract 113.04)
- 016) "Bad Pixels, Cosmic Rays, and PSF-Libraries from Deep HST/WFC Images"
Franklin, B. E., DuChene, N. S., Schroder, L. L., Gordon, J. M., Neuschaefer, L. W., & Windhorst, R. A. 1992, BAAS, 24, 1231 (Abstract 69.10)
- 015) "The HST Medium-Deep Survey Database"
Ratnatunga, K. U., Griffiths, R. E., Neuschaefer, L. W., Wyckoff, E., Ellis, R. S., Elson, R. A. W., Forbes, D., Gilmore, G., Glazebrook, K., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., Im, M., Pascarelle, S. M., Schade, D. J., Schmidt, M., Schmidtke, P. C., Shanks, T., Tyson, A., & Windhorst, R. A. 1992, BAAS, 24, 1230 (Abstract 69.06)
- 014) "HST Morphology and Light-Profiles of Field Galaxies Surrounding Distant Radio Sources"

- Gordon, J. M., Mathis, D. F., Pascarelle, S. M., Schmidtke, P. C., Windhorst, R. A., Keel, W. C., & Burkey, J. M. 1992, BAAS, 24, 1222 (Abstract 65.07)
- 013) "The HST Medium-Deep Survey: Deconvolution of WFC Images on Faint Field Galaxies"
Windhorst, R. A., Gordon, J. M., Pascarelle, S. M., Schmidtke, P. C., Griffiths, R. E., Im, M., Neuschaefer, L. W., Ratnatunga, K. U., Wyckoff, E., Ellis, R. S., Glazebrook, K., Shanks, T., Elson, R. A. W., Gilmore, G., Schade, D. J., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., Forbes, D., Schmidt, M., & Tyson, A. 1992, BAAS, 24, 1222 (Abstract 65.06)
- 012) "The HST Medium-Deep Survey: Limits to Galaxy Clustering Evolution from Deep WFC Images"
Neuschaefer, L. W., Griffiths, R. E., Im, M., Ratnatunga, K. U., Wyckoff, E., Windhorst, R. A., Gordon, J. M., Pascarelle, S. M., Schmidtke, P. C., Ellis, R. S., Glazebrook, K., Shanks, T., Elson, R. A. W., Gilmore, G., Schade, D. J., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., Forbes, D., Schmidt, M., & Tyson, A. 1992, BAAS, 24, 1191 (Abstract 45.02)
- 011) "Limits to Evolution in the Galaxy Correlation Function"
Neuschaefer, L. W., Windhorst, R. A., Dressler, A., Anderson, S. F., & Koo, D. C. 1991, BAAS, 23, 1394 (Abstract 43.02)
- 010) "A Deep ROSAT Survey of the Lynx Region"
Mathis, D. F., Windhorst, R. A., Franklin, B. E., Neuschaefer, L. W., Burstein, D., Maccacaro, T., Anderson, S. F., Griffiths, R. E., & Koo, D. C. 1991, BAAS, 23, 1335 (Abstract 10.08)
- 009) "HST Imaging of Distant Giant Elliptical Radio Galaxies"
Windhorst, R. A., Ferro, A. J., Hester, J. J., Mathis, D. F., Keel, W. C., Willis, A. G., & Katgert, P. 1991, BAAS, 23, 1334 (Abstract 10.04)
- 008) "Limits to the Cosmic Background Fluctuations between Angular Scales 10'' to 60''"
Partridge, R. B., Lowenthal, J. D., Fomalont, E. B., & Windhorst, R. A. 1991, BAAS, 23, 963 (Abstract 63.01)
- 007) "Micro-Jansky Radio Source Counts and Spectral Indices at 8.4 GHz"
Windhorst, R. A., Fomalont, E. B., Partridge, R. B., & Lowenthal, J. D. 1991, BAAS, 23, 956 (Abstract 54.01)
- 006) "A Multicolor CCD Survey for QSOs to $m \sim 24$ "
Anderson, S. F., Schechter, P. L., Windhorst, R. A., Koo, D. C., & Majewski, S. R. 1991, BAAS, 23, 892 (Abstract 12.02)
- 005) "The Correlation Function down to $V=26$ on 0.5° Scales"
Neuschaefer, L. W., & Windhorst, R. A. 1990, BAAS, 23, 840 (Abstract 85.08)
- 004) "Removing Large Scale Gradients in Four-shooter CCD Frames to 0.01 % of Sky"
Mathis, D. F., Neuschaefer, L. W., & Windhorst, R. A. 1990, BAAS, 22, 888 (Abstract 57.17)
- 003) "The Galaxy Correlation Function down to $V=26$ mag on 0.5 degree Scales"
Neuschaefer, L. W., & Windhorst, R. A. 1990, BAAS, 22, 883 (Abstract 55.13)
- 002) "Ultradeep Optical Identifications and Spectroscopy of Milli-Jansky and Micro-Jansky Radio Sources"
Windhorst, R. A., Dressler, A., & Koo, D. C. 1986, BAAS, 18, 1006 (Abstract 60.06)
- 001) "Near-Infrared Photometry for Faint Radio Galaxies"
Puschell, J. J., Windhorst, R. A., Thuan, T. X., Owen, F. N., & Isaacman, R. B. 1983, BAAS, 15, 914 (Abstract 04.06)

APPENDIX 7. COLLOQUIA AND SEMINARS

| Date | Institute | Title |
|----------|--|--|
| 79/09/20 | Sterrewacht Leiden (Leiden, The Netherlands) | First Identifications of the Westerbork-Einstein Deep Survey. |
| 81/09/02 | Centre for Astrophysics (Cambridge, MA) | Deep Optical Identifications of Radio and X-ray Sources. |
| 81/09/04 | Goddard Space Flight Centre (Greenbelt, MD) | Deep Optical Identifications of Radio and X-ray Sources. |
| 81/10/01 | Sterrewacht Leiden (Leiden, The Netherlands) | The Cosmological Evolution of Radio Galaxies. |
| 81/10/19 | Royal Greenwich Observatory (Herstmonceux, UK) | The Cosmological Evolution of Radio Galaxies. |
| 81/10/21 | Physics Department (Durham, UK) | The Cosmological Evolution of Radio Galaxies. |
| 81/10/23 | Royal Observatory (Edinburgh, UK) | The Cosmological Evolution of Radio Galaxies. |
| 82/06/09 | UKIRT (Hilo, Hawaii) | Deep Optical and Near-IR Photometry of Faint Radio Galaxies. |
| 82/06/17 | Astronomy Department, Univ. of California (San Diego, CA) | Deep Optical and Near-IR Photometry of Faint Radio Galaxies. |
| 82/06/24 | Kitt Peak National Observatory (Tucson, AZ) | Deep Optical and Near-IR Photometry of Faint Radio Galaxies. |
| 84/01/12 | Sterrewacht Leiden (Leiden, The Netherlands) | Ultradeep Radio Surveys and the Nature of Faint Radio Galaxies. |
| 84/01/13 | Radio Sterrewacht Dwingeloo (Dwingeloo, The Netherlands) | Ultradeep Radio Surveys with Westerbork and the VLA. |
| 84/01/16 | Kapteyn Sterrewacht (Groningen, The Netherlands) | Multicolor Photometry of Faint Radio Selected Galaxies. |
| 84/03/01 | Mt. Wilson and Las Campanas Observatories (Pasadena, CA) | Multicolor Photometry of Faint Radio Selected Galaxies. |
| 84/04/04 | California Institute of Technology (Pasadena, CA) | Ultradeep Radio Surveys and the Nature of Faint Radio Galaxies. |
| 84/06/08 | Sterrewacht Leiden (Leiden, The Netherlands) | Observing at Palomar and Las Campanas. |
| 84/07/03 | Department of Terrestrial Magnetism (Washington, DC) | Ultradeep Radio Surveys and the Nature of Faint Radio Galaxies. |
| 84/09/13 | Astronomy Department, Univ. of California, (Berkeley, CA) | Ultradeep Radio Surveys and the Nature of Faint Radio Galaxies. |
| 84/09/18 | Astronomy Department, Univ. of California, (Berkeley, CA) | The Epoch Dependent Radio Luminosity Function of Galaxies. (seminar) |
| 85/02/01 | National Radio Astronomy Observatory (Socorro, NM) | The Nature of Faint Radio Sources. |
| 85/02/04 | California Institute of Technology (Pasadena, CA) | The Connection Between MicroJansky Radio Sources and IRAS Galaxies. |
| 85/02/14 | Kitt Peak National Observatory (Tucson, AZ) | The Cosmological Evolution of Radio Galaxy Populations. |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|---|
| 85/05/01 | Space Telescope Science Institute (Baltimore, MD) | Clues to Galaxy Formation from Deep Radio Surveys. (invited review) |
| 85/05/07 | Astronomy Department (Princeton, NJ) | Ultradeep Radio Surveys and the Nature of Faint Radio Galaxies. |
| 85/05/08 | National Radio Astronomy Observatory (Green Bank, WV) | Ultradeep Radio Surveys: How and Why? |
| 85/05/09 | National Radio Astronomy Observ. (Charlottesville, VA) | The Nature of Faint Radio Sources. |
| 85/11/13 | Raman Research Institute (Bangalore, India) | The Cosmological Evolution of Radio Sources. |
| 85/11/14 | Tata Institute of Fundamental Research (Bangalore, India) | The Spectral Evolution of Radio Galaxies. |
| 85/11/15 | Radio Astronomy Centre (Ootacamund, India) | Ultradeep Radio Surveys. |
| 85/11/21 | <i>XIXth</i> General Assembly of the IAU (New Delhi, India) | Searching for Primeval Radio Galaxies. (invited review at Joint Discussion No. 4) |
| 85/12/19 | Sterrewacht Leiden (Leiden, The Netherlands) | Searching for Primeval Radio Galaxies. |
| 86/01/08 | Kapteyn Sterrewacht (Groningen, The Netherlands) | Searching for Primeval Radio Galaxies. |
| 86/02/14 | Astronomy Department, Univ. of California (Los Angeles, CA) | Searching for Primeval Radio Galaxies. |
| 86/02/27 | Physics Department, Univ. of California (Irvine, CA) | Searching for Primeval Radio Galaxies. |
| 86/03/06 | Mt. Wilson and Las Campanas Observatories (Pasadena, CA) | Searching for Primeval Radio Galaxies. |
| 86/04/17 | Physics Department, Arizona State University (Tempe, AZ) | Searching for Primeval Radio Galaxies. |
| 86/10/02 | Mt. Wilson and Las Campanas Observatories (Pasadena, CA) | Highlights of the Beijing IAU Symposium No. 124 on "Observational Cosmology." |
| 87/02/27 | Astronomy Department, Univ. of Wisconsin (Madison, WI) | Cosmology from Faint Radio Sources. |
| 87/03/03 | Physics Dept., Northwestern University (Evanston, IL) | Cosmology from Faint Radio Sources. |
| 87/03/17 | Astronomy Department, Univ. of Maryland (College Park, MD) | Cosmology from Faint Radio Sources. |
| 87/03/24 | Physics Department, Arizona State University (Tempe, AZ) | Cosmology from Faint Radio Sources. |
| 87/06/11 | Mt. Wilson and Las Campanas Observatories (Pasadena, AZ) | Four-shooter Folklore. |
| 87/09/17 | Sterrewacht Leiden (Leiden, The Netherlands) | Proto (?) Radio Galaxies. |
| 87/10/21 | Physics Department, Arizona State University (Tempe, AZ) | Radio Background Fluctuations. (seminar) |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|---|
| 87/11/06 | Lowell and Naval Observatory (Flagstaff, AZ) | The Search for Radio Protogalaxies. |
| 87/12/14 | National Science Foundation (Washington, DC) | The Search for Radio Protogalaxies. |
| 87/12/17 | National Radio Astronomy Observ. (Charlottesville, VA) | The Nature and Evolution of Faint Radio Galaxies. |
| 88/02/19 | Steward Observatory Internal Symposium (Tucson, AZ) | Searching for Primeval Radio Galaxies (invited review) |
| 88/03/21 | Center for Solid State Science Arizona State Univ. (Tempe, AZ) | The Application of CCD Detectors and Image Processing to Astronomy. |
| 89/05/03 | Fourth International Conference on Supercomputing (St Clara, CA) | Future Prospects of Supercomputers in Observational Astronomy (invited review) |
| 89/06/20 | Astronomy Department, Univ. of California (Berkeley, CA) | Steep Spectrum Radio Sources and Very High Redshift Galaxies: Is Herc.202 an M87 at redshift of 2.390? |
| 89/06/23 | The Edwin Hubble Centennial Symposium (Berkeley, CA) | The Evolution of Weak Radio Galaxies at Radio and Optical Wavelengths (invited review) |
| 89/08/10 | Goddard Space Flight Center (Greenbelt, MD) | Herc.202, an M87 Look-alike at Redshift of 2.390? |
| 90/02/27 | VII th Steward Observatory Internal Symposium (Tucson, AZ) | Herc.202, an M87 Look-alike at Redshift of 2.390? |
| 90/03/23 | National Radio astronomy Observatory (Socorro, NM) | The Evolution of Weak Radio Galaxies at Radio and Optical Wavelengths |
| 90/07/19 | Sterrewacht (Leiden, The Netherlands) | What Else Can We Learn From Deep Radio Surveys? |
| 90/08/10 | Kapteyn Laboratorium (Groningen, The Netherlands) | Herc202, a Truly Primeval Radio Galaxy at $z=2.390$? |
| 90/08/16 | Royal Observatory (Edinburg, Scotland) | The Galaxy Two-point Correlation Function Down to $V=26$ mag on 0.5 Degree Scales |
| 90/08/17 | Royal Observatory (Edinburg, Scotland) | Herc202, a Truly Primeval Radio Galaxy at $z=2.390$? |
| 90/09/27 | Dept. of Physics and Astronomy Arizona State Univ. (Tempe, AZ) | Very Distant Radio Galaxies as Probes of the Early Universe |
| 90/10/16 | University of Maryland (College Park, MD) | The Galaxy Two-point Correlation Function Down to $V=26$ mag on 0.5 Degree Scales |
| 90/11/09 | New Mexico State University (Las Cruces, NM) | The UV Properties of Weak Radio Galaxies at High Redshifts |
| 91/01/23 | Aspen Cosmology Winter School (Aspen, CO) | The Galaxy Two-point Correlation Function Down to $V=26$ mag on 0.5 Degree Scales |
| 91/03/26 | National Radio Astronomy Obs. (Charlottesville, VA) | The Galaxy Two-point Correlation Function Down to $V=26$ mag on 0.5 Degree Scales |
| 91/03/27 | National Radio Astronomy Obs. (Charlottesville, VA) | Deconvolutions of Recent Hubble Space Telescope Images of Distant Galaxies |
| 91/03/26 | University of Virginia (Charlottesville, VA) | What Does a Real Protogalaxy Look Like? |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|---|
| 91/09/19 | Sterrewacht (Leiden, the Netherlands) | High Resolution Morphology of Distant Galaxies as Seen by HST |
| 91/09/20 | Kapteyn Laboratorium (Groningen, The Netherlands) | Limits to the Evolution of Galaxy Clustering from the Two-point Correlation Function down to $V=26$ mag. |
| 92/03/05 | NOAO (Tucson, AZ) | The Evolution of Galaxy Clustering from the Two-point Correlation Function down to $V=26$ mag. |
| 92/06/30 | ESO workshop: Science with HST (Sardinia, Italy) | HST/WFC Imaging of Distant Weak Radio Galaxies |
| 92/09/22 | Observational Cosmology Symp. (Milano, Italy) | Limits to the Evolution of Galaxy Clustering from the two- Point Correlation Function down to $B=26$ on 0.5° Scales |
| 92/09/25 | Observational Cosmology Symp. (Milano, Italy) | Micro-Jansky Radio Source Counts and Limits to Arcmin Scale CBR-Fluctuations at 8.4 GHz. |
| 92/09/28 | Universita di Padova (Padova, Italy) | Deep HST Imaging of Distant Early-type Radio and Field Galaxies |
| 92/09/29 | Kapteyn Laboratorium (Groningen, The Netherlands) | Deep HST Imaging of Distant Early-type Radio and Field Galaxies |
| 93/01/04 | Phoenix AAS Meeting (Phoenix, AZ) | The Most Distant Galaxies as Observed from the Ground and by HST (invited review at AAS Press Seminar) |
| 93/02/05 | STScI (Baltimore, MD) | What HST can do on Distant Galaxies |
| 93/03/19 | NRAO (Socorro, NM) | Recent Adventures with the Hubble Space Telescope |
| 93/05/04 | Linceo Workshop on formation of Elliptical Galaxies (Rome, Italy) | Deep HST Sub-kpc Imaging and UV-spectra of gE galaxies (and their Progenitors) at $z=0.1-2.5$ (invited review) |
| 93/05/07 | Universita di Bologna (Bologna, Italy) | Deep Sub-kpc Imaging and UV-spectroscopy with HST of gE Galaxies (and their Progenitors) at $z=0.1-2.5$ |
| 93/05/12 | ESTEC Space Astronomy Symp. (Noordwijk, Netherlands) | Deep HST Imaging and Light-profiles of Radio and Field Galaxies at $z=0.1-2.5$ |
| 93/06/17 | STScI (Baltimore, MD) | What HST Can and Will Do on Distant Galaxies (invited review at NASA Science Writers Workshop) |
| 93/11/23 | Formation of Quasars & Radio Galaxies workshop (Pasadena, CA) | What Do μ Jy Counts and HST Results Tell Us About Formation/Evolution of Radio Galaxies? (invited review) |
| 93/12/17 | Carnegie Observatories (Pasadena, CA) | Deep HST Imaging of Faint Radio and Field Galaxies |
| 94/02/22 | Johns Hopkins University (Baltimore, MD) | HST Imaging and Spectroscopy of Distant Radio Galaxies |
| 94/03/03 | STScI (Baltimore, MD) | Deep HST Imaging of Distant Radio and Field Galaxies |
| 94/03/04 | NRAO (Charlottesville, VA) | The Θ - z Relation of HST Bulges and Disks out to $z=0.8$ |
| 94/09/16 | Sterrewacht Leiden (Leiden, Netherlands) | Deep HST/WFPC2 Imaging of a Young Elliptical (Radio) Galaxy and its Surroundings at $z=2.4$ |
| 94/09/19 | Max Planck Ringberg Workshop (Munich, Germany) | The Θ - z Relation of HST Bulges and Disks out to $z=0.8$ |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|---|
| 94/09/20 | Max Planck Ringberg Workshop (Munich, Germany) | The Discovery of a possible Sunyaev-Zel'dovich decrement in the cosmic Background through a deep VLA/HST Survey |
| 94/09/21 | Max Planck Ringberg Workshop (Munich, Germany) | The Evolution of the Faint Galaxy Two-point Correlation Function and the Epoch-dependent Galaxy Merger Rate |
| 94/09/22 | Max Planck Ringberg Workshop (Munich, Germany) | High Resolution HST PC-imaging of a Young Elliptical (Radio) Galaxy and its Surroundings at $z=2.390$ |
| 94/09/23 | Max Planck Ringberg Workshop (Munich, Germany) | The HST Morphology of Field Galaxies out to $z=0.8$: Results from Deep HST Surveys in Cycle 4 (invited review) |
| 94/11/17 | Arizona State University (Tempe, AZ) | New Hubble Space Telescope Imaging of the Most Distant Galaxies |
| 95/04/12 | University of California (Santa Cruz, CA) | Ultradeep HST Imaging of Faint Radio and Field Galaxies |
| 95/04/13 | University of California (Berkeley, CA) | Ultradeep HST Imaging of Faint Radio and Field Galaxies |
| 95/06/29 | IAU Symp. 171: New Light on Galaxy Evolution (Heidelberg) | High Resolution HST PC-Imaging of a Young Elliptical (Radio) Galaxy and its Surrounding Cluster at $z=2.40$ |
| 96/02/08 | Columbia University (New York, NY) | Deep HST Imaging of Faint Galaxies: Galaxy Formation from Compact Sub-galactic Clumps |
| 96/02/09 | Columbia University (New York, NY) | MicroJansky Radio Surveys with the VLA and the Nature of Faint Blue Radio Galaxies |
| 96/03/08 | NRAO (Socorro, NM) | The Hubble Deep Field and Other Deep HST Fields ("Russian Roulette" Lunch-talk) |
| 96/04/09 | Steward Observatory Internal Symposium (Tucson, AZ) | Recent Data from VATT, HST, and Keck: Did Mary Have A Little Lambda? |
| 96/11/21 | Sterrewacht (Leiden, The Netherlands) | Deep HST Imaging of Faint Field Galaxies: Galaxy Formation from Compact Sub-galactic Clumps |
| 96/11/22 | Sterrekundig Instituut (Utrecht, The Netherlands) | Deep HST Imaging of Faint Field Galaxies: Galaxy Formation from Compact Sub-galactic Clumps |
| 96/11/25 | Pontifical Academy (Vatican, Italy) | Deep HST Imaging of Faint Galaxies: Galaxy Formation from Compact Sub-galactic Clumps (invited review) |
| 97/03/31 | Steward Observatory Internal Symposium (Tucson, AZ) | Scraping the Barrel from Recent Deep HST fields: Variation in the M/L-ratio in Groups at $z \lesssim 2.5$ |
| 97/05/02 | University of Maryland (College Park, MD) | A Systematic VATT U-band Survey of Nearby Galaxies to Classify Faint Galaxies from Deep HST surveys |
| 97/05/04 | University of Maryland (College Park, MD) | The HST/WFPC2 B-band galaxy counts as function of type for $19 \lesssim B_J \lesssim 29$ mag |
| 97/05/07 | STScI (Baltimore, MD) | Results from Parallel Surveys and Other Deep HST Surveys (invited review at the Hubble Deep Field Workshop) |
| 97/10/13 | Kapteyn Laboratorium (Groningen, The Netherlands) | Latest (HST) Clues on the Formation of (Elliptical) Galaxies |
| 97/10/15 | Royal Netherlands Academy of Sciences (Amsterdam, Netherl.) | Constraints on High Redshift Galaxies from Milli/MicroJansky Radio Sources (invited review) |
| 97/11/14 | New Mexico State University (Las Cruces, NM) | Deep HST Imaging of Faint Field Galaxies: Galaxy Formation from Sub-galactic Clumps? |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|--|
| 98/01/27 | University of Texas (Austin, TX) | Galaxy Formation from Sub-galactic Clumps? |
| 98/03/04 | University of Alabama (Tuscaloosa, AL) | Evolution of Extragalactic Radio Sources: Clues from Deep HST Images |
| 98/03/13 | Steward Observatory Internal Symposium (Tucson, AZ) | HST/NICMOS Imaging of Several Weak Radio Galaxies: Is That Bloody Radio Source Still Unidentified? |
| 98/05/07 | University of California (Berkeley, CA) | More on Galaxy Formation from Sub-Galactic Clumps |
| 98/05/08 | IGPP, Lawrence Livermore Natl. Laboratory (Livermore, CA) | Deep HST Imaging of Faint Field Galaxies: Galaxy Formation from Sub-Galactic Clumps |
| 98/07/01 | X th Rencontres de Blois Meeting on the Birth of Galaxies (France) | Evolution of the sub-mJy and microJy Radio Source Population |
| 98/10/13 | 9th Annual October Conference: When Galaxies Were Young (MD) | Clues from Deep HST Images on Galaxy Formation and the Role of Mergers |
| 99/03/01 | Steward Observatory Internal Symposium (Tucson, AZ) | Living on the (Hydrogen-) Edge (of the Universe): Searching for Signatures from the Reionization Epoch |
| 99/03/08 | Large Binocular Telescope Optical Spectrographs (Columbus, OH) | Imaging with the LBT Spectrograph: Tracing Galaxy Formation at $5 \lesssim z \lesssim 9$ with Medium-Band Filters |
| 99/04/07 | NOAO Workshop on Large Wide- Field Telescopes (Tucson, AZ) | Very Wide-Field Imaging with the NSF Medium-Band Filter Set: Tracing Structure Formation at $z \gtrsim 5$ |
| 99/06/22 | Workshop on The Hy-Redshift Universe (Berkeley, CA) | The Vigor of Radio Astronomy at Hy Age: On the Nature and Evolution of microJansky Radio Sources |
| 99/09/18 | New Millennium galaxy morphology (Johannesburg, South Africa) | Y2K-Compliant Galaxy Classifications: Young and Old Galaxies at High Redshift as Seen by HST |
| 99/10/27 | IPAC (Caltech) (Pasadena, CA) | Deep HST Imaging of Faint Radio Galaxies Young and Old Galaxies at High Redshift |
| 00/10/11 | European Southern Observatory (Garching, Germany) | Closing in on the Hydrogen Reionization Edge Signal at $z < 7.2$ with Deep STIS/CCD Parallels |
| 00/10/18 | Steward Observatory Internal Symposium (Tucson, AZ) | A walk in Hubble's amusement park, wearing Ultraviolet sun-glasses. |
| 00/11/16 | Goddard Space Flight Center (Greenbelt, MD) | Mid-UV HST/WFPC2 Imaging of Nearby Galaxies as Templates for High Redshift Galaxy Classifications. |
| 00/11/17 | National Radio Astronomy Obs. (Charlottesville, VA) | Mid-UV HST/WFPC2 Imaging of Nearby Galaxies as Templates for High Redshift Galaxy Classifications. |
| 01/03/08 | The Ohio State University (Columbus, OH) | Mid-UV HST/WFPC2 Imaging of Nearby Galaxies as Templates for High Redshift Galaxy Classifications. |
| 01/03/22 | Space Telescope Science Institute (Baltimore, MD) | Capabilities of the HST Wide Field Camera 3: A bright future for HST in 2003 and beyond |
| 01/05/30 | Steward Observatory, University of Arizona Tucson, AZ) | A mid-UV imaging survey of nearby galaxies |
| 01/07/26 | Space Telescope Science Institute (Baltimore, MD) | WFPC2 mid-UV imaging of nearby galaxies and what they would look like in deep NGST images at $z=2-15$ |
| 01/10/04 | Harvard Smithsonian Center for Astrophysics (Cambridge, MA) | HST/WFPC2 mid-UV imaging of nearby galaxies and what they would look like in Deep NGST Images at $z=1-15$ |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|---|
| 01/11/02 | Steward Observatory Internal Symposium (Tucson, AZ) | To see or not to see, that's the question: NGST simulations at $z=1-15$ from HST mid-UV nearby galaxy images |
| 01/11/29 | van der Laan Symposium (Leiden, the Netherlands) | The Universe at nano-Jansky Levels |
| 02/04/04 | Arizona State University (Tempe, AZ) | Imaging Nearby Galaxies with Hubble in the mid-UV: Tools to Understand High-Redshift Galaxy Morphology. |
| 02/07/02 | Astronomical Society of Australia (Mollymook, NSW, Australia) | The Natural Confusion Limit as Expected for the Next Generation Space Telescope and the Square Kilometer Array |
| 02/07/04 | Australian National University (Canberra, ACT, Australia) | An HST mid-UV Survey of Nearby Galaxies: Tools to Understand High-Redshift Galaxy Morphology. |
| 02/07/10 | Australia Telescope Nat'l Facility (Epping, NSW, Australia) | An HST mid-UV survey of Nearby Galaxies: Tools to Understand High-Redshift Galaxy Morphology. |
| 02/07/17 | University of Sydney (Sydney, NSW, Australia) | Deep Surveys and the Expected Natural Confusion Limit for the NGST and the Square Kilometer Array. |
| 02/07/19 | Swinburne/Melbourne University (Melbourne, VIC, Australia) | An HST mid-UV Survey of Nearby Galaxies: Tools to Understand High-Redshift Galaxy Morphology. |
| 02/07/22 | University of New South Wales (Sydney, NSW, Australia) | An HST mid-UV Survey of Nearby Galaxies: Tools to Understand High-Redshift Galaxy Morphology. |
| 02/07/23 | Australia Telescope Nat'l Facility (Epping, NSW, Australia) | Deep Surveys and the Expected Natural Confusion Limit for the NGST and the Square Kilometer Array. |
| 02/11/15 | Lorentz Center Workshop (Leiden, the Netherlands) | Radio Source Populations at microJansky and nanoJy Levels and the Expected Natural Confusion Limit. |
| 03/03/18 | University of Arizona (Tucson, AZ) | Searching for $z \simeq 6$ Objects with the <i>HST</i> /Advanced Camera for Surveys: Analysis of a Deep Parallel Field. |
| 03/06/20 | Lorentz Center Workshop (Leiden, the Netherlands) | The Smoking Gun of Reionization — Who's Dunit: Dwarf Galaxies or Active Galactic Nuclei? |
| 03/06/30 | University of Groningen (Groningen, the Netherlands) | Constraints to the Luminosity Function at $z=6$ and the Likely Culprits of Reionization. |
| 03/06/30 | University of Groningen (Groningen, the Netherlands) | An HST mid-UV Survey of Nearby Galaxies: Quantitative Tools to Understand High-Redshift Galaxy Structure. |
| 03/07/01 | Radiosterrewacht Dwingeloo (Dwingeloo, the Netherlands) | The Smoking Gun of Reionization — Who's Dunit: Dwarf Galaxies or AGN? |
| 03/07/02 | University of Leiden (Leiden, the Netherlands) | Constraints to the Luminosity Function at $z=6$ and the Likely Culprits of Reionization. |
| 03/07/04 | University of Leiden (Leiden, the Netherlands) | The Natural Confusion limit for the James Webb Space Telescope and for the Square Kilometer Array. |
| 03/07/10 | University of Leiden (Leiden, the Netherlands) | An HST mid-UV Survey of Nearby Galaxies: Quantitative Tools to Understand High-Redshift Galaxy Structure. |
| 03/10/03 | Goddard Space Flight Center (Greenbelt, MD) | The James Webb Space Telescope — How Exactly Will it Measure First Light, Reionization, and Galaxy Assembly? |
| 03/10/06 | University of Arizona (Tucson, AZ) | The Smoking Gun of Reionization — Who's Dunit: Dwarf Galaxies or Active Galactic Nuclei? |
| 04/06/07 | Bakubung Conference Center (Sun City, South Africa) | How can the James Webb Space Telescope Measure First Light, Reionization and Galaxy Assembly? |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|---|
| 04/06/10 | Bakubung Conference Center (Sun City, South Africa) | HST imaging of nearby galaxies in the mid-UV and near-IR: A synoptic View of Galaxy Structure |
| 04/07/29 | Space Telescope Science Institute (Baltimore, MD) | A study of Tadpole Galaxies and Variable Objects in the Hubble Ultra Deep Field. |
| 04/08/03 | Harvard Center for Astrophysics (Cambridge, MA) | A study of Tadpole Galaxies and Variable Objects in the Hubble Ultra Deep Field. |
| 04/08/25 | Sterrewacht (Leiden, The Netherlands) | A study of of Galaxy Assembly and Black Hole Growth in the Hubble Ultra Deep Field. |
| 04/10/06 | JWST Mtg/Astrium Aerospace (Ottobrun, Germany) | A study of of Galaxy Assembly and Black Hole Growth in the Hubble Ultra Deep Field. |
| 04/12/01 | Arizona/Heidelberg Symposium (Tucson, AZ) | A study of of Galaxy Assembly and Black Hole Growth in the Hubble Ultra Deep Field. |
| 05/04/06 | Geology/Arizona State University (Tempe, AZ) | Big Universe — Large Telescopes |
| 05/05/19 | First Light/Reionization workshop (UC Irvine, CA) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 05/05/20 | First Light/Reionization workshop (UC Irvine, CA) | The Generation-X Vision Mission: The Next Generation X-ray Space Telescope |
| 05/06/15 | Royal Observ./JWST SWG mtg (Edinburgh, Scotland) | How will the JWST short wavelength performance affect faint galaxy parameters? |
| 05/06/16 | Royal Observatory (Edinburgh, Scotland) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 05/08/10 | Geological Society of America (Calgary, Canada) | Studying First Light and the Cosmic Dark Ages from beyond the Earth |
| 05/08/26 | Lorentz Center Workshop (Leiden, the Netherlands) | Did AGN Growth and Galaxy Assembly Go Hand-in-hand? |
| 05/09/07 | Palm Grant Proposal Review (Banner Health, Phoenix, AZ) | Using Hubble Space Telescope Galaxy Classification Software to Find Diabetic Type 2 in an Early Stage |
| 05/10/22 | DESTINY Meeting/NASA GSFC (Greenbelt, MD) | The Epoch-Dependent Merger Rate: Another path to w with DESTINY? |
| 06/03/31 | Dept. of Physics & Astronomy (ASU, Tempe) | The James Webb Space Telescope: How can it measure First Light, Reionization, and Galaxy Assembly? |
| 06/04/21 | East Valley Astronomy Club (Gilbert, AZ) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 06/05/12 | Space Telescope Science Institute (Baltimore, MD) | The Case for Early Release Science WFC3 programs: Map Reionization at $z \lesssim 8-9$ and Galaxy Assembly at $z \lesssim 5$ |
| 06/06/13 | Lowell Observatory (Flagstaff, AZ) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 06/07/17 | 26 th COSPAR Scientific Assembly (Beijing, China) | High Resolution Observations of High Redshift Galaxies |
| 06/07/18 | Beijing Astronomical Observatory (Beijing, China) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 06/07/20 | Beijing Univ./Astrophysics Center (Beijing, China) | HST imaging of nearby galaxies in the mid-UV and near-IR: Benchmarks for High Redshift Galaxy Classifications |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|--|
| 06/10/25 | NRAO (Charlottesville, VA) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 06/11/16 | University of California (Davis, CA) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 07/02/05 | University of Colorado (Boulder, CO) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 07/02/26 | University of California (Riverside, CA) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 07/04/12 | University of California (Riverside, CA) | Did Galaxy Assembly and Supermassive Black-Hole Growth go Hand in Hand? |
| 07/04/17 | Carnegie Observatories/Caltech (Pasadena, CA) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 07/05/04 | University of Minnesota (Minneapolis, MN) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 07/05/17 | University of Washington (Seattle, WA) | Galaxy Assembly and Supermassive Black Hole Growth: Did they go hand-in-hand and which Ended Reionization? |
| 07/07/10 | Spirit of the Senses Art & Science Salon (Phoenix, AZ) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 07/07/25 | University of California (Irvine, CA) | Synergy between the Thirty Meter Telescope and the James Webb Space Telescope: When $1 + 1 > 2$ |
| 07/08/30 | Palm Grant Proposal Review (Banner Health, Phoenix, AZ) | Using Hubble Space Telescope Galaxy Classification Software to Find Diabetic Type 2 in an Early Stage |
| 08/01/28 | Oxford University (Oxford, UK) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 08/02/03 | Arecibo Radio Observatory (Arecibo, Puerto Rico) | GiGa: The Billion Galaxy Survey — the Future of HI Surveys with the Square Kilometer Array |
| 08/03/12 | University of California (Los Angeles, CA) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 08/06/16 | Southern Cross Astrophys. Conf. (Blue Mountains, Sydney, OZ) | When during Galaxy Assembly did AGN Growth take place, and which Ended Reionization? |
| 08/06/18 | University of Sydney (Sydney, NSW, Australia) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 08/07/01 | University of Edinburgh (Scotland, UK) | When during Galaxy Assembly did AGN Growth take place, and which Ended Reionization? |
| 08/07/03 | University of St. Andrews (Scotland, UK) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 08/07/11 | Kavli Reionization Workshop (Beijing, China) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 08/07/12 | Beijing Univ/Astrophysics Center (Beijing, China) | When during Galaxy Assembly did AGN Growth take place, and which Ended Reionization? |
| 08/11/21 | Great Surveys in Astrophysics Workshop (Santa Fe, NM) | High-Precision Galaxy Surveys & Catalogs: JWST & Beyond |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|--|
| 08/12/17 | Next Decade's Radio Astronomy Workshop (NRAO, Socorro, NM) | Future Key Projects on the Extended-VLA: Synergy with other Missions & Projects (led panel discussion) |
| 09/03/03 | ASU Cosmology Initiative (Tempe, AZ) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 09/03/11 | Royal Netherlands Embassy Public Lecture Series (Washington DC) | Unraveling the Distant Universe with the NASA/ESA Hubble and James Webb Space Telescopes |
| 09/04/04 | ASU Origins Symposium (Cave Creek, AZ) | The James Webb Space Telescope and its Promise: What JWST will do after Hubble — when $1+1 \gg 2$. |
| 09/06/04 | University of Alabama (Tuscaloosa, AL) | How can the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 09/09/09 | Arizona State University (Tempe, AZ; Guest lecture) | First Results from the new Hubble Space Telescope Wide Field Camera 3: Panchromatic Astronomy |
| 09/11/18 | Wide Field Camera 3 Science Meeting (STScI, Baltimore) | The WFC3 ERS data: Panchromatic Faint Object Counts from 0.2–2 microns wavelength to $AB \approx 26$ –27 mag |
| 09/12/17 | ESF Conference "The Origin of Galaxies" (Oberurg, Austria) | How JWST will measure First Light, Reionization, and Galaxy Assembly — and a preview from HST/WFC3 |
| 10/01/05 | American Astronomical Society Press Talk (Washington DC) | The New Hubble Wide Field Camera 3 Early Release Science (ERS) images |
| 10/02/08 | Aspen Workshop on "The High Redshift Universe" (Aspen, CO) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post WMAP-7 and WFC3 era? |
| 10/03/08 | Austin Workshop on "First Stars and Galaxies" (Austin, TX) | When during galaxy assembly did SMBH growth take place? What has WFC3 done on AGN, & what will JWST do? |
| 10/03/12 | Arizona Imaging & Microanalysis Society Conference (Tempe, AZ) | Deep NASA Hubble Space Telescope Image Analysis, and its Applications to Medical Imaging |
| 10/03/26 | Irvine Workshop on "The View from 5 AU" (UC Irvine, CA) | The Era of JWST: Measuring First Light, Reionization, and Galaxy Assembly from the L2 Zodi Environment |
| 10/06/02 | Workshop on Galaxy/Black Hole Co-Evolution (Hangzhou, China) | Observing AGN Growth with HST and JWST: When during Galaxy Assembly did AGN Growth take place? |
| 10/09/22 | ASU Earth & Space Exploration (Tempe, AZ) | How will the James Webb Space Telescope measure First Light, Reionization, and Galaxy Assembly? |
| 10/09/23 | Aperio Enterprises Meeting ASU Skysong (Scottsdale, AZ) | Using Hubble Object Finding Software to Measure Cancer Cells Spreading and Diabetes Type 2 Markers |
| 10/10/05 | Lunar Robotic Science workshop (Boulder, CO) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post WMAP-7 and WFC3 era? |
| 10/10/22 | Saguaro Astronomy Club (Phoenix, AZ) | Unraveling the Distant Universe with the NASA Hubble and James Webb Space Telescopes |
| 10/11/10 | University of Hawaii (Honolulu, HI) | Observing AGN Growth with HST and JWST: When during Galaxy Assembly did AGN Growth take place? |
| 10/12/02 | University of California (Berkeley, CA) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post WMAP-7 and WFC3 era? |
| 11/01/12 | American Astronomical Society Press Talk (Washington DC) | Are JWST Surveys of the First Light Epoch Limited by Instrumental, Natural, or "Gravitational" Confusion? |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|---|
| 11/02/28 | University of Kansas (Lawrence, KS) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/03/01 | University of Kansas (Lawrence, KS) | Observing AGN Growth with HST and JWST: When during Galaxy Assembly did AGN Growth take place? |
| 11/03/07 | New Worlds, New Horizons Workshop (Santa Fe, NM) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/04/15 | Ohio University (Athens, OH) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/05/20 | University of California (Davis, CA) | How do we launch JWST to measure First Light, Reionization, Galaxy Assembly, minimizing impact on NASA Space Science? |
| 11/06/07 | "Frontier Science Opportunities with JWST" (Baltimore, MD) | Are JWST Surveys of the First Light Epoch Limited by Instrumental, Natural, or "Gravitational" Confusion? |
| 11/06/27 | Workshop on the First Galaxies (Ringberg, Bavaria, Germany) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/07/01 | Max Planck Institut für Astro- physics (Garching, Germany) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/08/08 | Santa Cruz Galaxy Workshop (UC Santa Cruz, CA) | Koo-I Panchromatic Astronomy: Past, Present, and Future |
| 11/08/24 | ASU Earth & Space Exploration Grad Students (Tempe, AZ) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/09/03 | Public Talk at Camp SESE Camp Tontozona (Payson, AZ) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/09/06 | ASU Earth & Space Exploration AST 111 class (Tempe, AZ) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/09/07 | ASU Cosmology Initiative Invited Seminar (Tempe, AZ) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/09/12 | High Redshift Galaxy Evolution Workshop (Potsdam, Germany) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/09/13 | High Redshift Galaxy Evolution Workshop (Potsdam, Germany) | Recent Programmatic and Political Developments in the James Webb Space Telescope Project (lead discussion forum) |
| 11/09/30 | AZ Museum for Natural History (Mesa, AZ) | NASA's James Webb Space Telescope (JWST): The new Frontier in the Cosmos after Hubble |
| 11/10/06 | Talk to "SEDS" Students (ASU, Tempe, AZ) | Images from Space with the Hubble Space Telescope, and in future with the James Webb Space Telescope |
| 11/10/07 | Saguaro Astronomy Club (Gilbert, AZ) | NASA's James Webb Space Telescope (JWST): The new Frontier in the Cosmos after Hubble |
| 11/10/21 | East Valley Astronomy Club (Phoenix, AZ) | NASA's James Webb Space Telescope (JWST): The new Frontier in the Cosmos after Hubble |
| 11/11/10 | Universidad Complutense de Madrid (Madrid, Spain) | How will JWST measure First Light, Reionization, and Galaxy Assembly in the post Hubble WFC3 era? |
| 11/11/18 | Spirit of the Senses Art & Science Salon (Phoenix, AZ) | NASA's James Webb Space Telescope (JWST): The new Frontier in the Cosmos after Hubble |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|---|
| 11/12/01 | Science Circle of Arizona ASU (Tempe, AZ) | NASA's James Webb Space Telescope (JWST): The new Frontier in the Cosmos after Hubble |
| 11/12/08 | Sante Ventures Meeting ASI Skysong (Scottsdale, AZ) | Deep NASA Hubble Space Telescope Image Analysis, and Object Recognition Algorithms for Histology |
| 12/01/19 | STEMnet Teacher Workshop (ASU, Tempe, AZ) | NASA's James Webb Space Telescope (JWST): The new Frontier in the Cosmos after Hubble |
| 12/03/30 | ASU Open House Public Talk (ASU, Tempe, AZ) | NASA's James Webb Space Telescope (JWST): The new Frontier in the Cosmos after Hubble |
| 12/04/09 | University of California (Los Angeles, CA) | How will JWST measure First Light, Reionization, and Galaxy Assembly?: Science & Project Update as of 2012 |
| 12/04/10 | Northrop Grumman Corp. (Redondo Beach; invited review) | How will JWST measure First Light and Galaxy Assembly: The new Frontier in the Cosmos after Hubble |
| 12/04/11 | IPAC/Caltech (Pasadena, CA) | How will JWST measure First Light, Reionization, and Galaxy Assembly?: Science & Project Update as of 2012 |
| 12/04/12 | Jet Propulsion Laboratory (Pasadena, CA) | How will JWST measure First Light, Reionization, and Galaxy Assembly?: Science & Project Update as of 2012 |
| 12/04/26 | AST 422 Cosmology class (ASU, Tempe, AZ) | How will JWST measure First Light and Galaxy Assembly: The new Frontier in the Cosmos after Hubble |
| 12/05/03 | Phoenix Astronomical Society (Paradise Valley, AZ) | How will JWST measure First Light and Galaxy Assembly: The new Frontier in the Cosmos after Hubble |
| 12/05/18 | East Valley Astronomy Club (Gilbert, AZ) | How will JWST measure First Light, Reionization, and Galaxy Assembly?: Science & Project Update as of 2012 |
| 12/07/09 | Goddard Space Flight Center (Greenbelt, MD) | How will JWST measure First Light, Galaxy Assembly & Supermassive Black-Hole Growth: New Frontier after Hubble |
| 12/07/19 | ASU Nanotechnology Cluster (Tempe, AZ) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 12/07/27 | ASU CLAS Freshman Class (Tempe, AZ) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 12/08/28 | 28 th IAU General Assembly (Beijing, China; invited review) | How JWST can measure First Light, Reionization, and Galaxy Assembly: Science & Project Update as of 2012 |
| 12/10/07 | Exploring the Dark Universe: L. Z. Fang Workshop (UofA) | L.Z. Fang's astrophysics & China: Musings on First Light, Galaxy Assembly & Supermassive Blackhole Growth |
| 13/01/08 | 221 st AAS Meeting; UV session (Long Beach, CA; invited review) | Hubble's Survey of the Ultraviolet Universe: Panchromatic Extragalactic Research ("SUPER") |
| 13/03/18 | ASU LOFAR Research Group (Tempe, AZ; invited seminar) | Observing AGN growth in radio, X-rays, with HST & JWST: When during galaxy assembly did AGN growth take place? |
| 13/03/19 | Spirit of the Senses (Tempe, AZ; invited public talk) | The best of Hubble, and what the James Webb Space Telescope will do after 2018 |
| 13/05/17 | East Valley Astronomy Club (Gilbert, AZ; invited public talk) | The best of Hubble, and what the James Webb Space Telescope will do after 2018 |
| 13/05/19 | U. of Nevada Graduation speech (Reno, NV; invited public talk) | Future careers at NASA: The best of Hubble, and what the James Webb Space Telescope will do after 2018 |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|--|
| 13/06/10 | Astronomy and Society Workshop (Leiden NL; panel discussion) | Lessons learned from JWST: What is required to make Mega-Science Projects succeed? |
| 13/06/11 | Astronomy and Society Workshop (Leiden, NL; invited review) | Lessons learned from JWST: What is required to make Mega-Science Projects succeed? |
| 13/06/12 | Kavli Workshop: Cosmology in the Era of ELT's (Chicago, IL) | Galaxy Assembly and AGN Growth with the Hubble WFC3 and with the James Webb Space Telescope |
| 13/06/27 | Australian National University (Canberra, ACT, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/01 | Public Talk, Sydney Observatory (Sydney, NSW, Australia) | The best of Hubble, and what the James Webb Space Telescope will do after 2018 |
| 13/07/04 | Macquarie University (Macquarie, NSW, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/12 | Astronomical Soc. of Australia (Monash, VIC, Australia; review) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/18 | CAASTRO First Light Workshop (Uluru, NT, Australia; invited) | Current and Future studies of First Light & Reionization: The James Webb Space Telescope and beyond |
| 13/07/22 | Swinburne Univ. of Technology (Hawthorne, VIC, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/23 | The University of Melbourne (Melbourne, VIC, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/25 | ICRAR/U. of Western Australia (Crawley, WA, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/26 | ICRAR/Curtin University (Perth, WA, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/29 | University of Sydney (Sydney, NSW, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/30 | Australian Astronomical Observ. (North Ryde, NSW, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/07/31 | Australian Astronomical Observ. (North Ryde, NSW, Australia) | Lessons learned from JWST: What is required to make Mega-Science Projects succeed? |
| 13/07/31 | Australian Telescope Nat'l Facility (Epping, NSW, Australia) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 13/09/07 | Public Talk at Camp SESE Camp Tontozona (Payson, AZ) | The best of Hubble, and what the James Webb Space Telescope will do after 2018. |
| 13/09/18 | ASU Earth & Space Exploration SESE Colloquium (Tempe, AZ) | The best of Hubble's Wide Field Camera 3, & what the James Webb Space Telescope will do after 2018. |
| 13/11/02 | ASU Earth & Space Exploration Day (Public Talk; Tempe, AZ) | The best of Hubble, and what the James Webb Space Telescope will do after 2018. |
| 13/11/09 | SpaceVision 2013: Exploration & Development of Space (Tempe) | The best of Hubble, and what the James Webb Space Telescope will do after 2018. |
| 14/02/01 | Origins Workshop: "Is our Universe Necessary?" (ASU, Tempe) | The James Webb Space Telescope and First Light: Project Update, What to Expect and How to Prepare? |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|--|
| 14/02/03 | Visit of Astronaut Story Musgrave (SESE public event, ASU, Tempe) | Thank you, Story Musgrave, for fixing Hubble so well for us in Dec. 1993! |
| 14/03/11 | Osservatorio Astronomico di Roma (Rome, Italy) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Project Update as of 2014 |
| 14/03/11 | Physics Dept., Rome University (Rome, Italy) | Beyond HST: From Exoplanets to First Stars with the James Webb Space Telescope |
| 14/03/13 | Rockwell Collins Deutschland (Wieblingen, Germany) | How will the Webb Telescope measure First Light and Galaxy Assembly: The new Frontier after Hubble |
| 14/03/14 | Max Planck Inst./Landessternwarte (Heidelberg, Germany) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Project Update as of 2014 |
| 14/05/02 | AST 394 Undergraduate Seminar (ASU, Tempe, AZ) | How will the Webb Telescope measure First Light and Galaxy Assembly: The new Frontier after Hubble |
| 14/05/07 | "ATLAST" Seminar Series, NASA GSFC (Greenbelt, MD) | Lessons from the James Webb Space Telescope: What is required to make Mega-Science Projects succeed? |
| 14/06/02 | NASA COPAG Science Analysis Gr. 224 st AAS mtg (Boston, MA) | Hubble's Imaging Surveys of the Ultraviolet Universe: Panchromatic Extragalactic Research |
| 14/07/25 | 18 th Paris Cosmology Colloquium Observatoire de Paris (France) | How will JWST measure First Light, Galaxy Assembly & SMBH Growth: New Frontier after HST |
| 14/08/07 | JWST Guaranteed Observing Time Workshop (STScI, Baltimore, MD) | Strategies to Observe First Light & $z \gtrsim 6$ Quasar Host Galaxies with JWST |
| 14/08/07 | JWST Guaranteed Observing Time Workshop (STScI, Baltimore, MD) | Strategies to Observe First Light with JWST |
| 14/08/07 | JWST Guaranteed Observing Time Workshop (STScI, Baltimore, MD) | High Redshift AGN and Their Host Galaxies: PSF-subtraction, Coronagraphy(?) & SED-fitting |
| 14/08/14 | SESE Faculty Retreat (ASU, Tempe, AZ) | Big Telescope Projects in SESE — Past, Present & Future: The Case for the Giant Magellan Telescope |
| 14/08/27 | Visit of Astronaut Jeff Hoffman (SESE public event, ASU, Tempe) | Thank you, Jeff Hoffman, for fixing Hubble so well for us in Dec. 1993! |
| 14/09/10 | Inst. of Theoretical Astrophysics Univ. of Oslo (Oslo, Norway) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 14/10/16 | Gheens Science Hall & Planetarium (Bullitt Lecture; U. Louisville; KY) | Beyond Hubble: From Exoplanets to First Stars with the James Webb Space Telescope |
| 14/10/17 | Dept of Physics & Astronomy (Univ. Louisville; Louisville, KY) | How will JWST measure First Light, Galaxy Assembly, & Supermassive Blackhole Growth: New Frontier after Hubble |
| 14/11/13 | Hubble Frontier Fields Workshop (Yale University; New Haven, CT) | Strategies to Observe First Light with JWST: How can we best use Lensing after 2018? |
| 14/12/11 | Sterrewacht, Univ. of Leiden (Leiden, The Netherlands) | Strategies to Observe First Light with JWST: How can we best use Lensing after 2018? |
| 15/01/16 | AST 394 Undergraduate Seminar (ASU, Tempe, AZ) | How will JWST measure First Light, Galaxy Assembly & Supermassive Blackhole Growth: New Frontiers after Hubble |
| 15/02/19 | ASU Physics (w/ P. Mausekopf) (ASU, Tempe, AZ) | What Do the 2015 Planck Collaboration Polarization Results Imply for James Webb Space Telescope First Light Surveys? |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|--|
| 15/03/02 | National Radio Astronomy Observ. (Socorro, NM) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/04/22 | Massachusetts Inst. of Technology (Cambridge, MA) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/04/23 | Astron.Dept., Princeton University (Princeton, NJ) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/04/27 | Harvard Center for Astrophysics (Cambridge, MA) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/05/17 | Physics Dept., Tel Aviv University (Tel Aviv, Israel) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/05/19 | Racah Institute, Hebrew University (Jerusalem, Israel) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/05/20 | Weizmann Institute of Science (Rehovot, Israel) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/05/21 | Technion Institute of Technology (Haifa, Israel) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/05/25 | Astronomy Dept., Tel Aviv Univ. (Tel Aviv, Israel) | HST Observations of Lyman Continuum from Galaxies and AGN at $2.3 \lesssim z \lesssim 5$: (How) Did they Reionize the Universe? |
| 15/05/27 | Physics Dept., Ben-Gurion Univ. (Beer Sheva, Israel) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/06/04 | CET Reionization Workshop (Kruger Gate; South Africa) | HST Observations of Lyman Continuum from Galaxies and AGN at $2.3 \lesssim z \lesssim 5$: (How) Did they Reionize the Universe? |
| 15/09/12 | Welcome talk to SESE Undergrads Camp Tontozona (Payson, AZ) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 15/10/12 | ESA/ESTEC JWST Workshop (Noordwijk, the Netherlands) | HST Observations of Lyman Continuum from Galaxies and AGN at $2.3 \lesssim z \lesssim 5$: (How) Did they Reionize the Universe? |
| 15/11/16 | Astrobiology Class (Montana State, Bozeman, MT) | How will the Webb Space Telescope measure Exoplanets, First Light, & Galaxy Assembly: New Frontier after HST |
| 15/12/07 | Lagrange "First Light" Conference (Inst. d'Astrophys., Paris, France) | HST Observations of Lyman Continuum from Galaxies and AGN at $2.3 \lesssim z \lesssim 5$: (How) Did they Reionize the Universe? |
| 15/12/09 | Lagrange "First Light" Conference (Plenary talk; IAp, Paris, France) | Lessons learned from JWST and HST that may help with WFIRST and other future big space missions |
| 15/12/11 | Centre d'Études de Saclay (Gif sur Yvette, France) | How will the Webb Space Telescope measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 16/02/25 | SPHEREx Community Workshop (Caltech, Pasadena, CA) | JWST Synergies with SPHEREx, and How to Exploit them |
| 16/03/03 | Friends-of-Gravity Public Lecture (ASU, Tempe, AZ) | LIGO Discovery of Gravitational Waves: What does it mean for (Super-Massive) Black-Hole Growth in Astrophysics? |
| 16/04/22 | ASU Physics Colloquium (ASU, Tempe, AZ) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |
| 16/04/23 | ASU SESE Undergraduate Seminar (ASU, Tempe, AZ) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: New Frontier after HST |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|--|
| 16/05/12 | Far-IR Surveyor STDT Meeting (NASA, GSFC; Greenbelt, MD) | Lessons learned from JWST and HST that may help with the Far-IR Surveyor (FIRS) Mission |
| 16/05/17 | JWST Guaranteed Observing Time Workshop (Victoria, BC; Canada) | Strategies to Observe First Light with JWST |
| 16/05/17 | JWST Guaranteed Observing Time Workshop (Victoria, BC; Canada) | High Redshift AGN and Their Host Galaxies: PSF-subtraction, Coronagraphy, & SED-fitting |
| 16/06/01 | Spirit of the Senses (Science Salon; Scottsdale, AZ) | The Search for First Light: James Webb Space Telescope Hardware Update 2016 |
| 16/06/14 | Kavli "Cold Universe" Workshop (UC Santa Barbara, CA) | The Search for First Light: Hardware Update on the James Webb Space Telescope, 2016 |
| 16/06/15 | Kavli "Cold Universe" Workshop (UC Santa Barbara, CA) | Lessons learned from JWST and HST that may help with future ground-based facilities and big space missions |
| 16/06/27 | Dept. of Physics Colloquium (University of Oxford, UK) | The Search for First Light: Hardware Update on the James Webb Space Telescope, 2016 |
| 16/06/29 | Institute of Advanced Study (Durham University, UK) | The Search for First Light: Hardware Update on the James Webb Space Telescope, 2016 |
| 16/06/30 | Dept. of Physics and Astronomy (University College London, UK) | The Search for First Light: Hardware Update on the James Webb Space Telescope, 2016 |
| 16/07/07 | JWST Workshop - Royal Observ. (Edinburgh, Scotland) | "How will the Community use JWST?" (Lead of Concluding Discussion) |
| 16/08/04 | NRAO Workshop "Future of Radio Astronomy" (Baltimore, MD) | Radio Astronomy in the Next Decade and Beyond (Lead of Panel Discussion) |
| 16/09/10 | Welcome talk to SESE Undergrads Camp Tontozona (Payson, AZ) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: Hardware Update 2016 |
| 16/09/30 | Phoenix Astronomy Club (Paradise Valley, AZ) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: Hardware Update 2016 |
| 16/10/08 | van der Laan 80 th Symposium (Sterrewacht Leiden; Netherlands) | From Westerbork to the Webb Telescope: 40 years of Cosmic Starformation & Supermassive Blackhole Growth |
| 16/10/28 | JWST Workshop - U. de Montreal (Univ. of Montreal; Canada) | How will we use JWST GTO time? (Lead GTO team meeting) |
| 16/11/17 | Astrobiology Class (Montana State, Bozeman, MT) | How will the Webb Space Telescope measure Exoplanets, First Light, & Galaxy Assembly: New Frontier after HST |
| 17/04/26 | "Lifecycle of Metals" Symposium (STScI; Baltimore, MD) | The Need for High-Fidelity, Deep Ultraviolet Space Imaging in the JWST Era |
| 17/04/28 | ASU SESE Undergraduate Seminar (ASU, Tempe, AZ) | How will the Webb Space Telescope measure Exoplanets, First Light, & Galaxy Assembly: New Frontier after HST |
| 17/05/01 | JWST Science Working Group (STScI; Baltimore, MD) | Lessons Learned from JWST APT on our IDS GTO Webb Medium Deep Fields (WMDF) |
| 17/05/19 | East Valley Astronomy Club (Gilbert, AZ) | How will the Webb Space Telescope measure Exoplanets, First Light, & Galaxy Assembly: New Frontier after HST |
| 17/07/03 | Kapteyn Astronomical Institute, (Univ. of Groningen; Netherlands) | The Search for First Light: Hardware Update on the James Webb Space Telescope, 2017 |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|---|
| 17/07/04 | Kapteyn Astronomical Institute (Univ. of Groningen; Netherlands) | Lessons learned from JWST and HST that may help with future ground-based facilities and big space missions |
| 17/07/07 | Radiosterrewacht Symposium (Dwingeloo; The Netherlands) | Deep Surveys with Westerbork Synthesis Radio Telescope: Cosmic Star Formation & Supermassive Blackhole Growth |
| 17/09/09 | Welcome talk to SESE Undergrads Camp Tontozona (Payson, AZ) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: Hardware Update 2017 |
| 17/09/27 | Space Exploration Students Club ASU (Tempe, AZ) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: Hardware Update 2017 |
| 17/10/06 | Saguaro Astronomy Club Phoenix (AZ) | How can the Webb Space Telescope Measure First Light, Reionization, & Galaxy Assembly: Hardware Update 2017 |
| 17/10/26 | Giant Magellan Telescope Org. Pasadena, (CA) | The Search for First Light: Hardware Update on the James Webb Space Telescope, 2017 |
| 17/11/16 | Astrobiology Class (Montana State, Bozeman, MT) | How will the Webb Space Telescope measure Exoplanets, First Light, & Galaxy Assembly: New Frontier after HST |
| 17/11/30 | Discovery Lecture Series (Public Talk at ASU, Tempe, AZ) | The Search for First Light: New Telescopes that will Expand Hubble's Frontier |
| 18/01/29 | SPHEREx Workshop (by videocon) (Caltech, Pasadena, CA) | How can SPHEREx select the Best Lensing Clusters for JWST? |
| 18/08/30 | WFIRST Deep Fields Workshop (Princeton Univ., Princeton, NJ) | Synergy of JWST with WFIRST and LSST: Faint Object Time-Domain and (Pop III) Caustic Transits |
| 18/10/01 | JWST Science Working Group (by Telecon) | Faint Object Time-Domain and Population III Caustic Transits with JWST |
| 18/11/07 | van de Hulst Centennial Workshop (Leiden Univ.; The Netherlands) | Henk, Hubble, H-I and Dust — A quarter century of going from Gas to Dust with the Hubble Space Telescope |
| 19/02/05 | Foreign Undergraduate Students ASU (Tempe, AZ) | How will can Webb Space Telescope measure Exoplanets, First Light, & Galaxy Assembly: New Frontier after HST |
| 19/04/13 | AST 394 Undergraduate Seminar (ASU, Tempe, AZ) | How will the Webb Telescope measure Exoplanets, First Light, & Galaxy Assembly: New Frontiers after Hubble |
| 19/05/23 | Spirit of the Senses (Science Salon; Scottsdale, AZ) | How can the Webb Space Telescope Measure First Light, Galaxy Assembly, & Super-Massive Black Hole Growth? |
| 19/08/24 | Cosmology Conference (Venice, Italy) | How can the Webb Space Telescope Measure First Light, Galaxy Assembly, & Super-Massive Black Hole Growth? |
| 19/08/24 | Cosmology Conference (Venice, Italy) | The Late Universe — panel discussion (Panel Chair) |
| 19/09/07 | Welcome talk to SESE Undergrads Camp Tontozona (Payson, AZ) | How can the Webb Space Telescope Measure First Light, Galaxy Assembly, & Super-Massive Black Hole Growth? |
| 19/11/07 | West Valley Astronomy Club (Sun City, AZ) | How can the Webb Space Telescope Measure First Light, Galaxy Assembly, & Super-Massive Black Hole Growth? |
| 19/11/15 | JWST Science Working Group (Baltimore, MD) | Faint Object Time-Domain and Population III Caustic Transits with JWST |
| 19/12/04 | Consulate of the Netherlands mtg (ASU, Tempe, AZ) | Science Synergy between ASU and the Netherlands: Hubble, LOFAR, Webb and other (Future) Telescopes |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|---|
| 20/04/14 | AST 394 Undergraduate Seminar (ASU, Tempe, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Hubble, Webb and other Future Telescopes |
| 20/09/18 | East Valley Astronomy Club (Gilbert, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Hubble, Webb and other Future Telescopes |
| 20/09/21 | SESE 121 Undergraduate Seminar (Gilbert, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Hubble, Webb and other Future Telescopes |
| 20/10/06 | JWST Science Workshop (Santiago, Chile; via Zoom) | 2020 Update of JWST Hardware and Science: Faint Object Time-Domain and Population III Caustic Transits |
| 20/10/15 | University of Wisconsin (Madison, WI; via Zoom) | 2020 Update of JWST Hardware and Science: Faint Object Time-Domain and Population III Caustic Transits |
| 20/11/10 | Princeton University (Princeton, NJ; via Zoom) | 2020 Update of JWST Hardware and Science: Faint Object Time-Domain and Population III Caustic Transits |
| 20/12/02 | Anglo Australian Observatory (Sydney, NSW, Australia; Zoom) | 2020 Update of JWST Hardware and Science: Faint Object Time-Domain and Population III Caustic Transits |
| 21/01/14 | Phoenix Astronomical Society (Phoenix, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Hubble, Webb and other Future Telescopes |
| 21/03/15 | Physics Dept., Ben-Gurion Univ. (Beer Sheva, Israel; via Zoom) | 2021 Update of JWST Hardware and Science: Faint Object Time-Domain and Population III Caustic Transits |
| 21/03/16 | AST 502 Graduate Seminar (ASU, Tempe, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Hubble, Webb and other Future Telescopes |
| 21/04/13 | AST 394 Undergraduate Seminar (ASU, Tempe, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Hubble, Webb and other Future Telescopes |
| 21/04/23 | ASU Society of Physics Students (ASU, Tempe, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth: Hubble, Webb and other Future Telescopes |
| 21/09/01 | SES 121 Undergraduate Seminar (ASU, Tempe, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth with the Webb Telescope: 2021 Launch Update |
| 21/09/09 | Center for Astron., Macquarie U. (North Ride, Australia, via Zoom) | 2021 Update of JWST Hardware and Science: Faint Object Time-Domain and Population III Caustic Transits |
| 21/10/07 | SESE Discovery Panel Discussion (ASU, Tempe, AZ) | The Universe Beyond Hubble: Hubble, Webb and other Future Telescopes |
| 21/10/22 | Earth & Space Open House (ASU, Tempe, AZ, via Zoom) | The Universe Beyond Hubble: The James Webb Space Telescope |
| 21/12/01 | Theoretical Physics Colloquium (ASU Polytechnic, via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth with the Webb Telescope: 2021 Launch Update |
| 21/12/09 | Arizona Science Center (Phoenix, AZ; via Zoom) | First Light, Galaxy Assembly, & Supermassive Blackhole Growth with the Webb Telescope: 2021 Launch Update |
| 21/12/22 | JWST Launch Event (ASU, Tempe, AZ) | The Launch of the James Universe Space Telescope and Timeline for the Next Six Months |
| 22/03/02 | Prescott Astronomy Club (Prescott, AZ; via Zoom) | The promise of the Webb Telescope re. First Light, Galaxy Assembly and Supermassive Blackhole growth |
| 22/03/24 | "Ask a Physicist" Seminar (ASU Beyond Center, Tempe, AZ) | The Universe Beyond Hubble: the James Webb Space Telescope — 2022 Update |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|---|---|
| 22/04/22 | ASU SESE Colloquium (Tempe, AZ) | Project SKYSURF: Constraints to the Zodiacal Foreground and the Diffuse Extragalactic Background Light |
| 22/04/26 | AST 394 Undergraduate Seminar (ASU, Tempe, AZ; via Zoom) | The Universe Beyond Hubble: the James Webb Space Telescope — 2022 Update |
| 22/07/12 | SESE Public Press Event (ASU, Tempe, AZ) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope – 12 July 2022! |
| 22/08/03 | Consulate of the Netherlands (Phoenix, AZ; via Zoom) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope – July 2022 |
| 22/08/31 | Central Mindanao University (Musuan, Philippines; via Zoom) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope in 2022 |
| 22/11/04 | Earth & Space Open House (Arizona State University, Tempe) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope in 2022 |
| 22/11/05 | “Aerobics For The Mind” Salon (Mountain Brook, Gold Canyon) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope in 2022 |
| 23/01/09 | American Astronomical Society (241st mtg, Seattle, WA; Zoom) | PEARLS: Prime Extragalactic Areas for Reionization & Lensing Science: Project Overview & First Results |
| 23/01/18 | New Horizons 2023 Science mtg (APL, Laurel, MD; via Zoom) | Diffuse Light Constraints from HST and JWST at 1 AU |
| 23/01/19 | Phoenix Astronomical Society (Phoenix, AZ; via Zoom) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope in 2022 and 2023! |
| 23/02/01 | Prescott Astronomy Club (Prescott, AZ; via Zoom) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope in 2022 and 2023! |
| 23/02/21 | Oases in the Desert Conference (ASU, Tempe, AZ) | CircumGalactic Medium Conference Welcome and some Results from the James Webb Space Telescope |
| 23/02/28 | The Park at Copper Creek (Chandler, AZ) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope in 2022 and 2023! |
| 23/03/15 | AST 394 Undergraduate Seminar (ASU, Tempe, AZ; via Zoom) | The Infrared Universe Beyond Hubble: the James Webb Space Telescope in 2022 and 2023! |
| 23/03/17 | ASU Physics Students Meeting (ASU, Tempe, AZ) | The Infrared Universe Beyond Hubble: The James Webb Space Telescope in 2022 and 2023! |
| 23/04/12 | Sterrewacht; University of Leiden (Leiden, the Netherlands) | Projects SKYSURF and WebbSURF: Diffuse Light Constraints from HST and JWST at 1 AU |
| 23/04/21 | Galactic Labyrinths Conference OAC, Kolymbari, Crete, Greece | A Review of Lyman Continuum Radiation with Hubble and the Potential of the James Webb Space Telescope |
| 23/04/24 | Astron Dept.; Univ. of Manchester (Manchester, United Kingdom) | Projects SKYSURF and WebbSURF: Diffuse Light Constraints from HST and JWST at 1 AU |
| 23/04/27 | Royal Observatory, U. of Edinburgh (Edinburgh, Scotland, UK) | Projects SKYSURF and WebbSURF: Diffuse Light Constraints from HST and JWST at 1 AU |
| 23/05/22 | 2023 Citizen Science Conference (ASU, Tempe, AZ) | What can the James Webb Space Telescope do for Citizen Science? |
| 23/08/26 | 2023 SESE Symposium (ASU, Tempe, AZ) | The Crown Jewels of the JWST PEARLS Project |
| 23/09/09 | Welcome talk to SESE Undergrads Camp Tontozona (Payson, AZ) | The World of Webb, seeing through the Eyes of Einstein |

APPENDIX 7. COLLOQUIA AND SEMINARS (continued)

| Date | Institute | Title |
|----------|--|---|
| 23/09/11 | First Year of JWST Science Conf. STScl (Baltimore, MD) | The Crown Jewels of the JWST PEARLS Project (invited talk) |
| 23/09/22 | Cline Annual Fall Public Lecture (Guilford College, Jamestown, NC) | The World of Webb, and seeing through the Eyes of Einstein |
| 23/09/23 | North Carolina Astronomers Mtg (Guilford College, Jamestown, NC) | Chasing the Reionizers of the Universe: Lyman Continuum Radiation with Hubble & Webb's potential |
| 23/11/03 | West Valley STEM Club (Sun City West, AZ) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 23/11/07 | SESE 502 Graduate Seminar (ASU, Tempe, AZ) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/02/03 | Spirit of the Senses (Science Salon; Scottsdale, AZ) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/02/16 | East Valley Astronomy Club (Gilbert Library, AZ) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/02/23 | Saguaro Astronomy Club Phoenix (AZ) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/04/02 | ASU Undergraduate Seminar AST 394 class, ASU, Tempe (AZ) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/04/12 | Society of Physics Students ASU, Tempe (AZ) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/05/02 | Science with the Hubble & Webb Space Telescopes VII (Portugal) | The Crown Jewels of the JWST PEARLS Project (invited talk) |
| 24/07/13 | Reasons to Believe scholar workshop Covina (CA) | The World of Webb, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/08/26 | Reasons to Believe scholar workshop Covina (CA; via zoom) | The World of Webb 2024, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/09/07 | Welcome talk to SESE Undergrads Camp Tontozona (Payson, AZ) | The World of Webb 2024, the Cosmic Circle of Life, and Seeing through the Eyes of Einstein |
| 24/11/14 | AstroParticle Symposium 2024 Institut Pascal, Paris (France) | SKYSURF & SKYSURFIR: How to constrain Diffuse Light from 30 years of Hubble and 2 years of Webb images |
| 25/01/30 | SESE Faculty Meeting Seminar (ASU, Tempe, AZ) | The Tale of Two Telescopes: Hubble and Webb — Why HST is worth saving after 35 years |
| 25/02/14 | Am. Assoc. for the Advancement of Science (Boston, MA) | The Tale of Two Telescopes: Hubble and Webb — Why HST is worth saving after 35 years |
| 25/04/11 | Galactic Labyrinths Conference OAC, Kolymbari (Crete, Greece) | The Tale of Two Telescopes: HST & JWST preparing us for Lyman Continuum Studies with Habitable Worlds Obs |
| 25/04/14 | Sterrewacht Lunchtalk (University of Leiden, the Netherlands) | The Tale of Two Telescopes: HST & JWST preparing us for Lyman Continuum Studies with Habitable Worlds Obs |
| 25/06/07 | Society of Catholic Scientists (Plenary Talk; Washington, DC) | What the James Webb Space Telescope has Discovered, and What it Means |

All talks since 1982 are listed in my full resume on: http://www.asu.edu/clas/hst/CV/windhorstCV_full.pdf .

PDFs of most of my recent talks can be found on: <http://www.asu.edu/clas/hst/www/jwst/> or on:

<http://www.asu.edu/clas/hst/www/jwst/jwsttalks/> or: <http://www.asu.edu/clas/hst/www/jwst/othertalks/>

APPENDIX 8. PARTICIPATION IN SYMPOSIA

7.a Invited Reviews or Published Conference Papers

| Symposium | Location | Date |
|---|--------------------|------------|
| IAU Symposium No. 97 on "Extragalactic Radio Sources" (1 paper) | Albuquerque (NM) | Aug. 1981 |
| IAU Symposium No. 104 on "The Early Evolution of the Universe and its Present Structure" (2 papers) | Crete Greece | Aug. 1982 |
| Space Telescope Workshop on "Deep Observations of the Formation and Evolution of Galaxies" (Invited Review) | Baltimore (MD) | May 1985 |
| XIX th General Assembly of the International Astronomical Union (Invited Review) | New Delhi India | Nov. 1985 |
| IAU Symposium No. 124 on "Observational Cosmology" (1 paper) | Beijing China | Aug. 1986 |
| 169 th Annual Meeting of the American Astronomical Society (1 paper) | Pasadena (CA) | Jan. 1987 |
| V th Steward Observatory Internal Symposium (Invited Review) | Tucson (AZ) | Feb. 1988 |
| Fourth International Conference on Supercomputing, and Third World Supercomputer Exhibition (Invited Review) | Santa Clara (CA) | May 1989 |
| The Evolution of the Universe of Galaxies, Edwin Hubble Centennial Symposium (Invited Review) | Berkeley (CA) | June 1989 |
| 175 th Annual Meeting of the American Astronomical Society (2 poster papers) | Washington (DC) | Jan. 1990 |
| 176 th Annual Meeting of the American Astronomical Society (2 poster papers) | Albuquerque (NM) | June 1990 |
| 1st Annual October Astrophysics Conference in Maryland: on "After the First Three Minutes" (1 review + 1 paper) | College Park (MD) | Oct. 1990 |
| Aspen Winter School on "Recent Advances in Cosmology" (1 review + 3 contributed papers) | Aspen (CO) | Jan. 1991 |
| STScI workshop on "AGN at High Redshifts" (2 papers) | Baltimore (MD) | Aug. 1991 |
| Workshop on "Science with the Hubble Space Telescope" (2 papers) | Sardinia Italy | July. 1992 |
| International Symposium on "Observational Cosmology" (1 review + 1 paper) | Milano Italy | Sep. 1992 |
| 181 st Annual Meeting of the American Astronomical Society (1 invited review + 6 poster papers) | Phoenix | Jan. 1993 |
| Workshop on the "Formation of Elliptical Galaxies" (Invited Review) | Rome Italy | May 1993 |

7.a Invited Reviews or Published Conference Papers (continued)

| Symposium | Location | Date |
|---|--------------------------------|-----------|
| "Frontiers of Space and Ground-based Astronomy" ESTEC Symposium (1 paper) | Noordwijk The Netherlands | May 1993 |
| NASA/STScI Science Writers Workshop (Invited Review) | Baltimore (MD) | June 1993 |
| "The formation of Radio Quasars and Radio Galaxies" Carnegie Workshop (Invited Review) | Pasadena (CA) | Nov. 1993 |
| 183 rd Annual Meeting of the American Astronomical Society (9 poster papers) | Washington DC (DC) | Jan. 1994 |
| "Quantifying Galaxy Morphology at High Redshift" STScI Workshop (1 poster paper) | Baltimore (MD) | Apr. 1994 |
| "Galaxies in the Young Universe" Max Planck Workshop (1 invited review + 4 papers) | Munich/Ringberg Germany | Sep. 1994 |
| 185 th Annual Meeting of the American Astronomical Society (11 poster papers) | Tucson (AZ) | Jan. 1995 |
| IAU Symposium No. 171 on "New Light on Galaxy Evolution" (1 review + 1 contributed paper) | Heidelberg Germany | June 1995 |
| Pontifical Academy of Sciences Workshop on "The Emergence of Structure in the Universe" (Invited Review) | Vatican City (Vatican) | Nov. 1996 |
| The Ultraviolet Universe at Low and High Redshift: Probing the Progress of Galaxy Evolution (paper) | College Park (MD) | May 1997 |
| "The Hubble Deep Field" STScI Workshop (Invited Review) | Baltimore (MD) | May 1997 |
| Royal Netherlands Academy of Sciences on "The Most Distant Galaxies" (Invited Review) | Amsterdam (Netherlands) | Oct. 1997 |
| X th Rencontres de Blois meeting on the "Birth of Galaxies" (Invited Review) | Paris (France) | July 1998 |
| 9 th Annual October Astrophysics Conference in Maryland: on "When Galaxies Were Young" (Invited Review) | College Park (MD) | Oct. 1998 |
| Workshop in honor of Hy Spinrad's 65th birthday: "The Hy-Redshift Universe" (Invited Review) | Berkeley (CA) | June 1999 |
| A New Millennium for Galaxy Morphology – From z=0 to the Lyman Break (Invited Review) | Johannesburg (South Africa) | Sep. 1999 |
| The ESO/ECF/STScI "Deep Fields" Workshop (1 paper) | Garching (Germany) | Oct. 2000 |
| 197 th Annual Meeting of the American Astronomical Society (5 poster papers) | San Diego (CA) | Jan. 2001 |
| The HST Advanced Camera High Latitude Survey Workshop (Invited Review) | Baltimore (MD) | Mar. 2001 |

7.a Invited Reviews or Published Conference Papers (continued)

| Symposium | Location | Date |
|--|----------------------------------|-----------|
| Workshop in honor of Harry van der Laan's 65th birthday: "The Radio Universe" (Invited Review) | Leiden (Netherlands) | Nov. 2001 |
| 199 th Annual Meeting of the American Astronomical Society (5 poster papers) | Washington (DC) | Jan. 2002 |
| 36th Annual General Meeting of the Astronomical Society of Australia (Invited Review) | Mollymook (Australia) | Jul. 2002 |
| Lowell Observatory Workshop on "The Outer Edges of Dwarf Irregular Galaxies (3 poster papers) | Flagstaff (AZ) | Oct. 2002 |
| The First Hubble Space Telescope Treasury Workshop (session chair) | Baltimore (MD) | Nov. 2002 |
| Lorentz Center Workshop on "Radio galaxies: Past, Present and Future" (Invited Review) | Leiden (Netherlands) | Nov. 2002 |
| 201 st Annual Meeting of the American Astronomical Society (1 paper + 1 poster) | Seattle (WA) | Jan. 2003 |
| Workshop on "The Topology of Reionization" (Invited Review) | Tucson (AZ) | Mar. 2003 |
| Lorentz Center Workshop on "Emission Line Halos" (Invited Review) | Leiden (Netherlands) | Jun. 2003 |
| 203 st Annual Meeting of the American Astronomical Society (6 poster papers) | Atlanta (GA) | Jan. 2004 |
| South Africa Conference on "Galaxy Structure" (Invited Review) | Bakubung Lodge (South Africa) | Jun. 2004 |
| Arizona/Heidelberg Symposium: "The High Redshift Frontier" (1 paper) | Tucson (AZ) | Dec. 2004 |
| 205 st Annual Meeting of the American Astronomical Society (9 poster papers) | San Diego (CA) | Jan. 2005 |
| First Light and Reionization Workshop (2 Invited Reviews) | Irvine (CA) | May 2005 |
| Geological Society of America and Canada Earth Systems II Meeting (Invited Review) | Calgary (Canada) | Aug. 2005 |
| Lorentz Center Workshop on "QSO Host galaxies — Evolution and Environment" (Invited Review) | Leiden (Netherlands) | Aug. 2005 |
| 207 st Annual Meeting of the American Astronomical Society (4 poster papers) | Washington (DC) | Jan. 2006 |
| 26 th COSPAR Scientific Assembly — High Resolution Imaging from Space (Invited Review) | Beijing, (China) | Jul. 2006 |
| 209 st Annual Meeting of the American Astronomical Society (6 poster papers) | Seattle (WA) | Jan. 2007 |

7.a Invited Reviews or Published Conference Papers (continued)

| Symposium | Location | Date |
|--|-----------------------------|-----------|
| Thirty Meter Telescope Workshop on "Science in the Era of the TMT" (Invited Review) | Irvine (CA) | Jul. 2007 |
| NASA/GSFC and STScI Workshop on "Astrophysics in the Next Decade: JWST and Concurrent Facilities" | Tucson (AZ) | Sep. 2007 |
| 211 st Annual Meeting of the American Astronomical Society (11 poster papers) | Austin (TX) | Jan. 2008 |
| NASA/ESA Workshop on "Science with the new Hubble Space Telescope after Servicing Mission 4" | Bologna (Italy) | Jan. 2008 |
| Arecibo Workshop on "The Evolution of Galaxies seen through the Neutral Hydrogen Line" (Invited Review) | Arecibo (Puerto Rico) | Feb. 2008 |
| Southern Cross Conf. on "Merging Black Holes in Galaxies: Galaxy Evolution, AGN & Gravitational Waves" (inv. Review) | Blue Mountains (Sydney, OZ) | June 2008 |
| Kavli Workshop on "Cosmic Reionization: Formation & Evolution of Stars, Galaxies & Black Holes" (Invited Review) | Beijing (China) | July 2008 |
| Los Alamos Workshop on "Great Surveys in Astrophysics" (Invited Review) | Santa Fe (NM) | Nov. 2008 |
| National Radio Astronomy Observatory Workshop on "Next Decade's Radio Astronomy" (led panel discussion) | Socorro (NM) | Dec. 2008 |
| 213 st Annual Meeting of the American Astronomical Society (7 poster papers) | Long Beach (CA) | Jan. 2009 |
| ASU Origins Symposium (Invited Review) | Tempe (AZ) | Apr. 2009 |
| HST Wide Field Camera 3 Scientific Oversight Committee Early Release Science Meeting (led panel discussion) | Baltimore (MD) | Nov. 2009 |
| European Science Foundation Conference on "The Origin of Galaxies" (Invited Review) | Obergurgl (Austria) | Dec. 2009 |
| 215 st Annual Meeting of the American Astronomical Society (Invited talk to the Press + 33 poster papers) | Seattle (DC) | Jan. 2010 |
| Aspen Workshop on "The High Redshift Universe: A Multi-Wavelength View" (Invited Review) | Aspen (CO) | Feb. 2010 |
| Austin Workshop on "First Stars and Galaxies" (Invited Review) | Austin (TX) | Mar. 2010 |
| Irvine Workshop on "The View from 5 AU: Measuring the Diffuse Sky Brightness from the Outer Solar System (Review) | Irvine (CA) | Mar. 2010 |
| Workshop on "Key Issues in High-redshift Galaxy/Black Hole Evolution in the ALMA/JWST Era" (Invited Review) | Hangzhou (China) | Jun. 2010 |
| Workshop on "Robotic Science from the Moon: Gravitational Physics, Heliophysics and Cosmology" (Invited Review) | Boulder (CO) | Oct. 2010 |

7.a Invited Reviews or Published Conference Papers (continued)

| Symposium | Location | Date |
|---|--------------------------------|-----------|
| 217 st Annual Meeting of the American Astronomical Society (Invited talk to the Press + 12 poster papers) | Seattle (DC) | Jan. 2011 |
| Workshop on "Frontier Science Opportunities with JWST" (Invited talk) | Baltimore (MD) | Jun. 2011 |
| Workshop on the "First Galaxies" (Invited Review) | Ringberg (Bavaria, Germany) | Jun. 2011 |
| Workshop on "High Redshift Galaxy Evolution" (Invited Review) | Potsdam (Berlin, Germany) | Sep. 2011 |
| Northrop Grumman Distinguished Visitor Series (Invited Review) | Redondo Beach (CA) | Apr. 2012 |
| IAU General Assembly; Joint Discussion 9 on "Future Telescopes" (Invited Review) | Beijing (China) | Aug. 2012 |
| Exploring the Dark Universe — L. Z. Fang Workshop (Invited Review) | UofA, Tucson (AZ) | Oct. 2012 |
| 221 st AAS Meeting — UV Special Session (Invited Review) | Long Beach (CA) | Jan. 2013 |
| Astronomy, Radio Sources and Society Workshop (2013 Miley-fest: Invited Review and Panel Discussion) | Leiden (Netherlands) | June 2013 |
| Kavli Institute/GMT Workshop: "Cosmology in the Era of Extremely Large Telescopes" (Invited Review) | Chicago (IL) | June 2013 |
| 2013 Astronomical Society of Australia Annual Scientific Meeting (Invited Review) | Monash (VIC) (Australia) | Jul. 2013 |
| Reionization in the Red Centre Workshop: New Windows on the High Redshift Universe (Invited CAASTRO Review) | Ayers Rock (NT) (Australia) | Jul. 2013 |
| 223 st AAS Meeting (Poster papers) | Washington DC (DC) | Jan. 2014 |
| ASU Origins Workshop: "Is the Universe Necessary?" (Invited Review) | Tempe (AZ) | Feb. 2014 |
| Fourth Accademia dei Lincei Conference "Science with the Hubble Space Telescope" (Session Chair) | Rome (Italy) | Mar. 2014 |
| 18 th Chalonge Cosmology Colloquium "Latest News from the Universe" (Invited Review) | Paris Observatory (France) | July 2014 |
| James Webb Space Telescope Guaranteed Observing Time Workshop (3 talks and Session Chair) | Baltimore (MD) | Aug. 2014 |
| Yale Hubble Frontier Fields Workshop "Shedding Light on the Dark Ages and Dark Matter" (Invited Review) | New Haven (CT) | Nov. 2014 |
| CET Workshop on "Reionization: A Multi-wavelength Approach" (Invited Review) | Kruger Gate (South Africa) | June 2015 |

7.a Invited Reviews or Published Conference Papers (continued)

| Symposium | Location | Date |
|---|---------------------------------------|-----------|
| ESA/ESTEC JWST Science Workshop (Invited Review) | Noordwijk (The Netherlands) | Oct. 2015 |
| Lagrange "First Light" Conference, Inst. d'Astrophysique (Invited Review+Plenary talk) | Paris (France) | Dec. 2015 |
| SPHEREx Community Workshop (Invited Review Talk) | Caltech (Pasadena, CA) | Feb. 2016 |
| Far-IR Surveyor STDT Meeting (by Videocon) (Invited Review Talk) | NASA, GSFC (Greenbelt, MD) | May 2016 |
| JWST Guaranteed Observing Time Workshop (2 Invited talks) | U. Victoria (BC; Canada) | May 2016 |
| Kavli "Cold Universe" Workshop (2 Invited Talks) | UC St. Barbara (Santa Barbara, CA) | Jun. 2016 |
| JWST Science Workshop (Lead of Concluding Discussion) | Royal Observ. (Edinburgh, UK) | Jul. 2016 |
| NRAO Workshop "Future of Radio Astronomy" (Lead of Panel Discussion) | Inner Harbor (Baltimore, MD) | Aug. 2016 |
| van der Laan 80 th Birthday Symposium (Invited Review Talk) | Univ. Leiden (The Netherlands) | Oct. 2016 |
| JWST Science Workshop (Lead GTO team meeting) | Univ. Montreal (Montreal, Canada) | Oct. 2016 |
| 229 st AAS Meeting (Poster papers) | Dallas (TX) | Jan. 2017 |
| van de Hulst Centennial Workshop (Invited Review Talk) | Univ. Leiden (The Netherlands) | Nov. 2018 |
| Cosmology Conference (Invited Review Talk) | Venice Italy | Aug. 2019 |
| 225 st AAS Meeting (Poster papers) | Honolulu (HI) | Jan. 2020 |

APPENDIX 8. PARTICIPATION IN SYMPOSIA (continued)

7.b Conference Attendance and/or Unpublished Presentations

| Symposium | Location | Date |
|--|------------------------------------|-----------|
| Eighth Advanced Course of the Swiss Society of Astronomy and Astrophysics, "Observational Cosmology" | Saas Fee Switzerland | Apr. 1978 |
| XIth Young European Radio Astronomers Conference (1 paper) | Manchester England | July 1978 |
| XIIth Young European Radio Astronomers Conference (1 paper) | Puschino USSR | Sep. 1979 |
| ESO Workshop on "Two Dimensional Photometry" | Noordwijkerhout The Netherlands | Nov. 1979 |
| IAU Symposium No. 94 on "The Origin of Cosmic Rays" (1 paper) | Bologna Italy | June 1980 |
| AAS/SPIE Conference on "Applications of Digital Image Processing to Astronomy" | Pasadena CA, USA | Aug. 1980 |
| NATO Summer School on "The Origin and Evolution of Galaxies" (1 contributed paper) | Erice Sicily | May 1981 |
| National Optical Astronomy Observatory Workshop on "Quasars" | Tucson AZ, USA | Jan. 1988 |
| XX th General Assembly of the International Astronomical Union (3 contributed papers) | Baltimore MD, USA | Aug. 1988 |
| VI th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Mar. 1989 |
| VII th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Feb. 1990 |
| VIII th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Mar. 1991 |
| IX th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Apr. 1992 |
| X th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Feb. 1993 |
| XI th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Mar. 1995 |
| XIII th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Apr. 1996 |
| Princeton Conference on "Cosmology Dialogues" | Princeton (NJ) | June 1996 |
| XIV th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Mar. 1997 |

7.b Conference Attendance and/or Unpublished Presentations (continued)

| Symposium | Location | Date |
|--|----------------------|-----------|
| The Ultraviolet Universe at Low and High Redshift (2 papers) | College Park (MD) | May 1997 |
| XV th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Mar. 1998 |
| XVI th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Mar. 1999 |
| Large Binocular Telescope Optical/UV Spectrograph Working Group (LBTOSWG) Meeting (1 paper) | Columbus OH, USA | Mar. 1999 |
| NOAO Workshop on "Applications and Science Drivers for a Large Wide-Field Survey Telescope" (1 paper) | Tucson AZ, USA | Apr. 1999 |
| NOAO Workshop on the Future of National O/IR Astronomy | Phoenix AZ, USA | Oct. 2000 |
| XVI th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Oct. 2000 |
| XVIII th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Nov. 2001 |
| XX th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Oct. 2003 |
| XXI th Steward Observatory Internal Symposium (1 paper) | Tucson AZ, USA | Nov. 2004 |
| Workshop on "Primordial Magnetism" | Tempe (AZ) | Mar. 2011 |