

## CURRICULUM VITAE

**Name:** Rogier Arnold Windhorst

**Address:** School of Earth & Space Exploration  
 Arizona State University, Box 871404  
 450 E. Tyler Mall, PSF-686 Office: 550 E. Tyler Mall, GWC-508  
 Tempe, AZ 85287-1404, USA

**Tel.:** +1-480-965-7143 or 9416 (office); +1-480-965-6362 (FAX); or +1-480-540-0816 (cell)

**E-mail:** Rogier.Windhorst@asu.edu

**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:**

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:**

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  $\gtrsim 21,900$  current citations with  $h\text{-index} \simeq 76$ . Also, <http://scholar.google.com> lists  $\gtrsim 27,200$  citations with  $h \simeq 85$ .

**Federal Grants:** Since 1989, I have brought in  $\sim 14.4$  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 ( $\sim 240$  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  $\sim 500$  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

Dr. John C. Mather, Senior Project Scientist & Nobel Laureate  
James Webb Space Telescope  
NASA Goddard Space Flight Center  
Mail Code 443, Building 22, Room 332  
Greenbelt, MD 20771  
USA

Tel. 1 301 286 6885 or 8720 or 8528 or 5770, FAX: 1 301 286 1753 or 7021  
Email: John.C.Mather@nasa.gov or ebarnes@hst.nasa.gov (Ms. Eileen Barnes).

Prof. Dr. Harry van der Laan, Emeritus Director General of ESO  
Schoener 18  
NL-3961 KZ, Wijk bij Duurstede  
The Netherlands  
Tel. +31 343 579 186  
E-mail: astrolaan@icloud.com

Dr. Barry G. Ritchie, Emeritus, Professor and Vice Provost for Academic Personnel  
Department of Physics  
Arizona State University  
P. O. Box 871504  
Tempe, AZ 85287-1504  
USA  
Tel: 1 480-965-4707 FAX: 1 480-965-7954  
E-mail: Barry.Ritchie@asu.edu

## APPENDIX 1. FUNDED RESEARCH AND PATENTS

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

Source/Grant No.	Total \$ <sup>1</sup>	PI/ <i>Status</i> :	Period(% effort) <sup>2</sup>	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 $\alpha$ 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 <sup>3</sup>	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:

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

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

<sup>3</sup> 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 \$ <sup>1</sup>	PI/ <i>Status</i> :	Period(% effort) <sup>2</sup>	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 <sup>3</sup>	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 $\alpha$ 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 $\approx$ 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 <sup>4</sup>	Windhorst	07/04-06/05(10)	Classifying Neurons in Pre-Diabetic Patients
TGEN/ASU	15,660 <sup>5</sup>	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- $\lambda$ 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- $\alpha$ Blobs at z=0.6
Sub-total	5,620,136	<i>(Grants Funded for FY≤10)</i> <i>(Continued on next page)</i>		

Notes:

- <sup>1</sup> Award amounts are totals received at or requested by my group at ASU, and reflect ASU's part of the project only.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> This is the ASU part of a larger grant between Good Samaritan Hospital (Banner Health) and ASU.
- <sup>5</sup> 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 \$ <sup>1</sup>	PI/ <i>Status</i> :	Period(% effort) <sup>2</sup>	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- $\alpha$ 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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>4</sup>	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 <sup>4</sup>	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:

- <sup>1</sup> Award amounts are totals received at or requested by my group at ASU, and reflect ASU's part of the project only.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> 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 \$ <sup>1</sup>	PI/Status:	Period(% effort) <sup>2</sup>	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 <sub>0</sub> , 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 <sup>3</sup>	Pierel	01/24-12/25(02)	SN Encore: H <sub>0</sub> , Time Delay of Lensed z=1.9 SN
<i>Grants Approved or Pending for FY≥25:</i>				
HST/GO-17624	25,000 <sup>3</sup>	Smith	01/25-12/26(02)	Treasuretrove: BH & Bulge Growth: NEP TDF
JWST/GO-Cy4	400,000 <sup>3</sup>	Various	01/24-12/25(02)	SN Encore: H <sub>0</sub> , Time Delay of Lensed z=1.9 SN
Total	14,828,173	(Grants Funded, Approved, or Pending as of FY25)		

Notes:

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

<sup>2</sup> 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.

<sup>3</sup> 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 \$ <sup>1</sup>	ASU-PI	Period(% effort) <sup>2</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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:

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

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

<sup>3</sup> 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 <sup>st</sup> 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
<b>Department Committees and Other Departmental Service:</b>	
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
<b>School of Earth and Space Exploration (SESE) Committees and Service:</b>	
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)
<b>College Committees and Other College Service:</b>	
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)
<b>University Committees and Other University Service:</b>	
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
<b>Journal Articles Refereed per year:</b>	
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
<b>Grant or Observing Proposals Refereed:</b>	
National Science Foundation (1998 and 2001) (each proposal typically few 100 k\$)	50
National Science Foundation — Referee of Large proposals (including one $\sim 120$ 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)	$\sim 100$
NASA/STScI Hubble Fellowship Program (2001)	124
NASA ATP/Beyond Einstein Panel Review (2006)	$\sim 50$
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)	$\sim 200$
NRAO Very Large Array Sky Survey (9000 hr proposal; 2015)	1
<b>Other Refereeing Activities:</b>	
Ph.D. Dissertations (ASU and for universities abroad)	$\lesssim 4$
Reference letter for ex students and postdocs	$\sim 100$
Reference for tenure/promotion of candidates worldwide	$\sim 12$

### APPENDIX 3. TEACHING

#### 3.a Undergraduate Lecture Courses Taught at ASU

Course	Year	Title	Student Evaluation <sup>a</sup> 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	–	– <sup>b</sup>	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 <sup>c</sup>	140
AST 111	Fall 03	Introduction to Solar System Astronomy	1.98	1.87 <sup>c</sup>	140
AST 111	Fall 04	Introduction to Solar System Astronomy	1.40	1.53 <sup>c</sup>	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	–	– <sup>b</sup>	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 <sup>c</sup>	144
AST 112	Spring 05	Introduction to Stars, Galaxies and Cosmology	2.12	2.01 <sup>c</sup>	200

*Notes:*

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

<sup>b</sup> Student survey was not done because Department changed (temporarily) to reviews every three years.

<sup>c</sup> This section contained one or several Barrett Honors College students.



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

Course	Year	Title	Student Evaluation <sup>a,b</sup>		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	—	— <sup>c</sup>	384
AST 114	Spring 06	Astronomy Lab I	—	— <sup>c</sup>	384
SES 103	Fall 06	Space Exploration Lab I	1.31	1.67 <sup>c</sup>	024
SES 104	Spring 07	Space Exploration Lab II	2.87	1.67 <sup>c</sup>	024
AST 113	Fall 08	Astronomy Lab I	—	— <sup>c</sup>	384
AST 113	Fall 09	Astronomy Lab I	—	— <sup>c</sup>	550
AST 113	Fall 10	Astronomy Lab I	—	— <sup>c</sup>	550
AST 113	Fall 11	Astronomy Lab I	—	— <sup>c</sup>	550
AST 113	Fall 12	Astronomy Lab I	—	— <sup>c,d</sup>	525
AST 113	Fall 13	Astronomy Lab I	—	— <sup>c,d</sup>	450
AST 113	Fall 15	Astronomy Lab I	—	— <sup>c,d</sup>	432
AST 113	Fall 16	Astronomy Lab I	—	— <sup>c,d</sup>	408
AST 113	Fall 17	Astronomy Lab I	—	— <sup>c,d</sup>	408
AST 113	Fall 18	Astronomy Lab I	—	— <sup>c,d</sup>	408
AST 113	Fall 19	Astronomy Lab I	—	— <sup>c,d</sup>	375
AST 113	Fall 20	Astronomy Lab I	—	— <sup>c,d</sup>	375
AST 111L	Fall 21	Astronomy Lab I	—	— <sup>c,d</sup>	375
AST 111L	Fall 23	Astronomy Lab I	—	— <sup>c,d</sup>	288
AST 114	Spring 09	Astronomy Lab II	—	— <sup>c</sup>	500
AST 114	Spring 10	Astronomy Lab II	—	— <sup>c</sup>	550
AST 114	Spring 13	Astronomy Lab II	—	— <sup>c,d</sup>	450
AST 114	Spring 14	Astronomy Lab II	—	— <sup>c,d</sup>	425
AST 114	Spring 16	Astronomy Lab II	—	— <sup>c,d</sup>	432
AST 114	Spring 17	Astronomy Lab II	—	— <sup>c,d</sup>	408

*Notes:*

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

<sup>b</sup> 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).

<sup>c</sup> This section contained one or several Barrett Honors College students.

<sup>d</sup> 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 <sup>a</sup>		Total nr of Students
			Item 10	Avg. 1-10	
AST 422	Spring 03	Cosmology	1.14	1.43 <sup>b</sup>	007
AST 422	Spring 07	Cosmology	2.00	1.57 <sup>b</sup>	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	–	– <sup>b,c</sup>	112
AST 599	1987-present	Astrophysics Master Thesis	–	– <sup>c</sup>	045
PHY 500	2008-present	Physics Research Rotation	–	– <sup>c</sup>	020
AST 792	1987-present	Astrophysics Graduate Research	–	– <sup>c</sup>	056
AST 799	1987-present	Astrophysics Ph.D. Dissertation	–	– <sup>c</sup>	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:*

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

<sup>b</sup> This section contained one or several Barrett Honors College students.

<sup>c</sup> 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 <sup>a</sup>		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 <sup>b,c</sup>	195
AST 112	Spring 17	Introduction to Stars, Galaxies and Cosmology	3.5/5	3.5/5 <sup>b,c</sup>	150
AST 422	Spring 11	Cosmology	4.3/5	4.3/5 <sup>b</sup>	010
AST 422	Spring 12	Cosmology	4.0/5	3.9/5 <sup>b</sup>	010
AST 322	Spring 18	Galaxies and Cosmology	3.8/5	4.0/5 <sup>b</sup>	049
AST 322	Spring 19	Galaxies and Cosmology	3.4/5	3.4/5 <sup>b</sup>	046
AST 322	Spring 20	Galaxies and Cosmology	4.4/5	4.5/5 <sup>b</sup>	049
AST 322	Spring 21	Galaxies and Cosmology	3.9/5	4.0/5 <sup>b</sup>	071
AST 322	Spring 22	Galaxies and Cosmology	4.0/5	4.1/5 <sup>b</sup>	048
AST 322	Spring 24	Galaxies and Cosmology	4.1/5	4.2/5 <sup>b</sup>	055
AST 322	Spring 25	Galaxies and Cosmology	4.0/5	4.0/5 <sup>b</sup>	060

*Notes:*

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

<sup>b</sup> This section contained one or several Barrett Honors College students.

<sup>c</sup> 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	<a href="http://windhorst103.asu.edu/">http://windhorst103.asu.edu/</a>
SES 104	Space Exploration Lab II	<a href="http://windhorst104.asu.edu/">http://windhorst104.asu.edu/</a>
AST 111	Intro to Solar System Astronomy	<a href="http://windhorst111.asu.edu/">http://windhorst111.asu.edu/</a>
AST 112	Intro to Stars, Galaxies & Cosmology	<a href="http://windhorst112.asu.edu/">http://windhorst112.asu.edu/</a>
AST 111L	Astronomy Lab I	<a href="http://windhorst111lab.asu.edu/">http://windhorst111lab.asu.edu/</a>
AST 113	Astronomy Lab I	<a href="http://windhorst113.asu.edu/">http://windhorst113.asu.edu/</a>
AST 114	Astronomy Lab II	<a href="http://windhorst114.asu.edu/">http://windhorst114.asu.edu/</a>
AST 125	Astronomy Lab I	<a href="http://windhorst113.asu.edu/">http://windhorst113.asu.edu/</a>
AST 126	Astronomy Lab II	<a href="http://windhorst114.asu.edu/">http://windhorst114.asu.edu/</a>
AST 322	Galaxies & Cosmology	<a href="http://windhorst322.asu.edu/">http://windhorst322.asu.edu/</a>
AST 422	Cosmology	<a href="http://windhorst422.asu.edu/">http://windhorst422.asu.edu/</a>
AST 500	Astron. Techniques (w/ Scowen)	<a href="http://windhorst500.asu.edu/">http://windhorst500.asu.edu/</a>
PHY 500	Astrophysics Research Rotation	<a href="http://windhorst500.asu.edu/">http://windhorst500.asu.edu/</a>
AST 598	Astron. Techniques (w/ Odewahn)	<a href="http://windhorst598.asu.edu/">http://windhorst598.asu.edu/</a>
AST 598	Observational Cosmology	<a href="http://windhorst598.asu.edu/">http://windhorst598.asu.edu/</a>
AST 598	Extragalactic Astronomy	<a href="http://windhorst598.asu.edu/">http://windhorst598.asu.edu/</a>
AST 532	Galaxies II: Galaxies	<a href="http://windhorst532.asu.edu/">http://windhorst532.asu.edu/</a>
AST 533	Galaxies III: Cosmology	<a href="http://windhorst533.asu.edu/">http://windhorst533.asu.edu/</a>

### 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 <sup>1</sup>	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 $\Lambda$ 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:*

<sup>1</sup> Postdoc shared with Prof. A. Cowley.

### 3.f Graduate Students supervised in ASU Physics or SESE

Name	Period <sup>1</sup>	Research topic <sup>1</sup>	Current or last known position
A. Ferro <sup>2</sup>	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. Neuschaefer	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 <sup>3</sup>	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 <sup>4</sup>	05/06-07/08	Studies of High Redshift Ly $\alpha$ Emitters	Faculty at UT Austin (TX)
N. Hathi	01/02-05/08	HST Studies of Galaxies at Redshifts z=1–6	Research Staff at STScI
R. Ryan	08/03-07/08	The Epoch Dependent Merger Rate	Research Staff at STScI
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 <sup>4</sup>	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 $\alpha$ Blobs	PHY graduate in industry
R. Morgan <sup>5</sup>	08/02-05/12	Numerical $\Lambda$ 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 $\alpha$ 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:

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

<sup>2</sup> Student supervised together with Prof. S. Wyckoff.

<sup>3</sup> Student supervised together with Prof. D. Burstein.

<sup>4</sup> Student supervised together with Prof. J. Rhoads & S. Malhotra.

<sup>5</sup> Student supervised together with Prof. E. Scannapieco.

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

Name	Period <sup>1</sup>	Research topic <sup>1</sup>	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 <sup>2</sup>	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 <sup>3</sup>	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 <sup>3</sup>	08/12-08/18	HST studies of High Redshift Galaxies	Iridium Systems Engineer (Boeing)
N. Mahesh <sup>4</sup>	08/16-08/18	Identification of double-lobed LOFAR sources	SESE Graduate student at ASU
R. Holton <sup>5</sup>	08/16-08/19	3D Tactiles for Blind Students	SESE Graduate student at ASU
D. Kim <sup>6</sup>	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 <sup>7</sup>	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 <sup>2</sup>	05/16-05/22	Cosmic Sources of IceCube neutrinos	SESE Graduate student at ASU
T. McCabe <sup>8</sup>	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 <sup>9</sup>	05/21-present	Replicating HUDF images to Constrain EBL	ASU SESE graduate student
T. Dimitrova <sup>7</sup>	05/22-present	The North Ecliptic Pole Time Domain Field	ASU SESE graduate student
A. Pigarelli <sup>10</sup>	05/22-present	Study of Gravitationally Lensing Clusters	ASU SESE graduate student
J. Berkheimer <sup>11</sup>	08/22-present	JWST Study of Distant Globular Clusters	ASU SESE graduate student
N. Foo <sup>10</sup>	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:*

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

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

<sup>3</sup> Student supervised together with Prof. E. Scannapieco.

<sup>4</sup> Student supervised together with Prof. J. Bowman

<sup>5</sup> Student supervised together with Dr. P. Scowen

<sup>6</sup> Student supervised together with Dr. R. A. Jansen.

<sup>7</sup> Student supervised together with Prof. N. Butler

<sup>8</sup> Student supervised together with Prof. S. Borthakur

<sup>9</sup> Student supervised together with Prof. A. van Engelen

<sup>10</sup> Student supervised together with Prof. A. Noble

<sup>11</sup> Student co-supervised with primary advisor Prof. K. Bossert

### 3.g Undergraduate Students mentored at ASU

Name	Period <sup>1</sup>	Research topic <sup>1</sup>	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 <sup>1</sup>	08/93-12/94	The HST Medium Deep Survey	ASU graduate at Intel
B. Franklin <sup>1</sup>	08/91-07/95	Evolution of the Galaxy Merger Rate	ASU graduate private sector
D. Kasen <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	08/10-06/11	NASA SWIFT Imaging of Lyman- $\alpha$ Blobs	Faculty at Community College
I. Blackburn	08/10-06/11	HST studies of High Redshift Galaxies	ASU graduate in industry
P. Hegel <sup>1</sup>	05/10-07/12	NASA SWIFT Imaging of Lyman- $\alpha$ 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 <sup>1</sup>	04/12-05/14	HST studies of the Zodiacal Light	ASU graduate in industry
M. Mein <sup>1</sup>	04/12-05/14	HST studies of High Redshift Galaxies	ASU graduate in industry
A. Brokaw <sup>1</sup>	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:

<sup>1</sup> 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 <sup>1</sup>	Research topic <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	08/14-08/16	HST studies of Nearby Stellar Populations	Qwaltec industry, Tempe
J. Vehonsky <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	08/15-07/19	Variability in the NEP Time Domain Field	UofA graduate student
C. White <sup>1</sup>	08/15-07/19	Studies of Faint AGN in the NEP Field	UofA graduate student
G. Huckabee <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	05/19-08/21	VLT U-band Imaging of CANDELS Fields	ASU Physics graduate student

*Notes:*

<sup>1</sup> 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 <sup>1</sup>	Research topic <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	05/18-05/21	Evolution of Solar-mass Population III Stars	W. Australia graduate student
L. Nolan <sup>1</sup>	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 <sup>1</sup>	08/19-05/23	HST Lyman Continuum Studies at $z \simeq 2-3$	NASA JPL
D. Henningsen <sup>1</sup>	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 <sup>1</sup>	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 <sup>1</sup>	01/23-08/24	Active Galaxies in JWST NIRCам images	ASU graduate student
C. Jeffries <sup>1</sup>	08/23-12/24	Automated JWST NIRCам PSF identification	ASU graduate student
D. Gapinski <sup>1</sup>	01/24-12/14	Java tool: Hyper-Zoom into JWST images	ASU graduate student
N. McLeod <sup>1</sup>	08/23-05/25	JWST Dwarf Galaxy studies	ASU graduate student
J. Summers <sup>1</sup>	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 <sup>1</sup>	05/22-present	SKYSURF: HST Zodi & EBL Legacy Archive	ASU undergraduate student
R. Honor <sup>1</sup>	05/22-present	JWST Pipeline and Image Analysis	ASU undergraduate student
T. Acharya <sup>1</sup>	08/22-present	JWST NIRCам PSF fitting	ASU undergraduate student
L. Conrad	05/23-present	JWST NIRCам image analysis	ASU undergraduate student
A. Gahlot	05/23-present	JWST NIRCам image analysis	ASU undergraduate student
T. Hinrichs <sup>1</sup>	05/23-present	JWST NIRCам globular cluster analysis	ASU undergraduate student
H. Ingram	08/23-present	HST SKYSURF: Star Count Modeling	ASU undergraduate student
A. Nelander <sup>1</sup>	01/24-present	AGN Reionization Models and 21cm imprints	ASU undergraduate student
J. Perivoltis <sup>1</sup>	01/24-present	High- $z$ Caustic Transits with JWST NIRCам	ASU undergraduate student
A. Cardona <sup>1</sup>	05/24-present	JWST NIRCам image analysis	ASU undergraduate student
M. Miller <sup>1</sup>	05/24-present	HST SKYSURF: Zodiacal Modeling	ASU undergraduate student
G. Bowling <sup>1</sup>	08/24-present	Active Galaxies in JWST NIRCам images	ASU undergraduate student

*Notes:*

<sup>1</sup> 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 <sup>1</sup>	Research topic <sup>1</sup>	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:*

<sup>1</sup> 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 <sup>1</sup>	Research topic <sup>1</sup>	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:*

<sup>1</sup> 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 <sup>1</sup>	Research topic <sup>1</sup>	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:*

<sup>1</sup> 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 <sup>1</sup>	Research topic <sup>1</sup>	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 <sup>2</sup>	10/20-08/23	SKYSURF: HST Zodiacal Sky Brightness	Research Staff, Macquarie U. (OZ)
S. Tompkins <sup>3</sup>	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.

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

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

<sup>3</sup> 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](http://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  $\Lambda$  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  $0.5^\circ$  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](http://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](http://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  $\Lambda$ . 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 $\alpha$  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](http://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  $\sim 3.5$ -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- $\Lambda$  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](http://hubblesite.org/news/2004/28) and [hubblesite.org/news/2003/05](http://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 $\alpha$ , 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](https://asunews.asu.edu/20120821_3dimagine) ; and [https://asunews.asu.edu/20120827\\_windhorst](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>
- <https://hubblesite.org/contents/news-releases/2009/news-2009-29>
- <https://hubblesite.org/contents/news-releases/2009/news-2009-32>
- <https://hubblesite.org/contents/news-releases/2010/news-2010-01>
- <https://hubblesite.org/contents/news-releases/2010/news-2010-22>
- <https://hubblesite.org/contents/news-releases/2010/news-2010-38>
- <https://hubblesite.org/contents/news-releases/2011/news-2011-04>
- [https://asunews.asu.edu/20120821\\_3dimagine](https://asunews.asu.edu/20120821_3dimagine)
- <https://hubblesite.org/contents/news-releases/2014/news-2014-27>
- <https://webbtelescope.org/contents/news-releases/2018/news-2018-23/>
- <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/>
- <https://asunow.asu.edu/20201014-discoveries-simulations-show-nasa-james-webb-space-telescope-can-uncover-hidden-galaxies>
- <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://esa webb.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>
- <https://cnnespanol.cnn.com/video/nasa-galaxias-imagenes-telescopio-espacio-redaccion-buenos-aires/>
- <https://webbtelescope.org/contents/news-releases/2023/news-2023-146>
- <https://hubblesite.org/contents/news-releases/2023/news-2023-146>
- <https://www.nasa.gov/missions/webb/nasas-webb-hubble-combine-to-create-most-colorful-view-of-universe/>
- <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/>
- <https://news.asu.edu/20240131-science-and-technology-team-astronomers-led-asu-scientist-discovers-galaxy-shouldnt-exist>
- [https://news.asu.edu/20240424-science-and-technology-celebrating-34-years-space-discovery-nasa?%7B\\_src%7D=news-story](https://news.asu.edu/20240424-science-and-technology-celebrating-34-years-space-discovery-nasa?%7B_src%7D=news-story)
- <https://esawebb.org/news/weic2418/>
- <https://news.asu.edu/20240625-science-and-technology-webb-telescope-reveals-star-clusters-cosmic-gems-arc>
- <https://www.quantamagazine.org/the-webb-telescope-further-deepens-the-biggest-controversy-in-cosmology-20240813/>
- <https://webbtelescope.org/contents/early-highlights/webb-researchers-discover-lensed-supernova-confirm-hubble-tension>
- <https://blogs.nasa.gov/webb/2024/10/01/webb-researchers-discover-lensed-supernova-confirm-hubble-tension/>
- <https://news.asu.edu/20241001-science-and-technology-webb-scientists-confirm-hubble-tension-through-lensed-supernova>
- <https://news.asu.edu/20241028-science-and-technology-robotic-eyes-help-researchers-explore-big-bang-reverse>
- <https://www.youtube.com/watch?v=tKNv0HfUmo8>
- <https://www.sciencealert.com/black-holes-could-be-the-mysterious-force-expanding-the-universe>
- <https://scitechdaily.com/dark-energy-mystery-mounting-evidence-points-to-black-holes-as-hidden-source/>
- <https://earthsky.org/space/black-holes-as-the-source-dark-energy/>
- <https://cosmosmagazine.com/space/astrophysics/black-holes-dark-energy-big-bang/>
- <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>
- <https://news.asu.edu/20250312-science-and-technology-nasa-launches-space-telescope-chart-sky-and-millions-galaxies>
- <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):**

- <https://phys.org/news/2025-08-black-holes-universe-dark-energy.html>
- <https://www.desi.lbl.gov/2025/08/21/black-holes-that-convert-matter-into-dark-energy-allow-for-positive-neutrino-masses/>
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*Total internet reads or hits from press releases since 1995: over 10 billion* <sup>1</sup>.

<sup>1</sup> (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/klas/hst/CV/windhorstCV\\_full.pdf](http://www.asu.edu/klas/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) “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)
- 378) “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)
- 377) “PEARLS: NuSTAR and XMM-Newton Extragalactic Survey of the JWST North Ecliptic Pole Time-domain Field III”  
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- 376) “SKYSURF IX – The Cosmic Optical and Infrared Background from Integrated Galaxy Light Measurements”  
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- 375) “PEARLS: Twenty-One Transients Found in the Three-Epoch NIRCcam Observations in the Continuous Viewing Zone of the James Webb Space Telescope”  
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- 373) “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)
- 372) “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)
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- 370) “JWST’s PEARLS: A Candidate Massive Binary Star System in a Lensed Galaxy at Redshift 0.94”  
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- 369) “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”  
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- 368) “The Distribution of Quenched Galaxies in the Massive  $z = 0.87$  Galaxy Cluster El Gordo”  
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- 367) “Globular Clusters in the Galaxy Cluster MACS0416 at  $z = 0.397$ ”  
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- 364) “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., in press (astro-ph/2407.16339)
- 363) “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”  
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- 362) “JWST’s PEARLS: A  $z=6$  Quasar in a Train-Wreck Galaxy Merger System”  
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- 360) “PASSAGES: The Discovery of a Strongly Lensed Protocluster Core Candidate at Cosmic Noon”  
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- 359) “JWST lens model for A370: A Very Low Dark Matter Fraction for a Brightest Cluster Galaxy and Lensing Properties for the Dragon Arc”  
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- 358) “Microlensing at Cosmological Distances: Event Rate Predictions in the Warhol Arc of MACS 0416”  
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- 357) “Cosmic Stillness: High Quiescent Galaxy Fractions Across Upper Mass Scales in the Early Universe to  $z = 7$  with JWST”  
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- 356) “DIISC-V: Variations in H $\alpha$ -to-FUV Star Formation Rate Ratios Across Star-forming Regions in Nearby Galaxies”  
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- 353) “SKYSURF VIII – Modeling SKYSURF Completeness Data for Comparison to the Hubble Space Telescope Exposure Time Calculator”  
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- 351) “Positive Neutrino Masses with DESI DR2 via Matter Conversion to Dark Energy”  
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- 348) “Explaining JWST Counts with Galaxy Formation Models”  
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- 017) “The Discovery of a Young Radio Galaxy at  $z=2.390$ : Probing Initial Star Formation at  $z \gtrsim 3$ ”  
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- 016) “New Limits to Fluctuations in the Cosmic Background Radiation at 4.86 GHz between 12 and 60 Arcsecond Resolution”  
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- 015) “The WSRT 1.4 GHz Amalgamated Source Counts”  
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- 014) “A Deep 92 cm Survey of the Lynx Area”  
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- 013) “6 cm Radio Source Counts and Spectral Index Studies down to 0.1 Milli-Jansky”  
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- 012) “A Direct Determination of the Linear Size Evolution of Elliptical Radio Galaxies”  
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- 011) “VLA High Resolution Observations of Weak Leiden-Berkeley Deep-Survey (LBDS) Sources”  
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- 010) “A Westerbork Survey of the Einstein X-ray Observatory Deep Survey Areas. I. The 0.6 and 1.4 GHz Catalogues, Source Counts and Spectral Index Distributions”  
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- 009) “A Deep Westerbork Survey of Areas with Multicolor Mayall 4 m Plates. III. Photometry and Spectroscopy of Faint Source Identifications”  
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- 008) “A Very Deep Westerbork Survey of a Field Previously Observed with the VLA”  
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- 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”  
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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”  
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- 003) “Einstein X-ray Observations of Optical-Radio Selected Areas”  
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- 002) “New VBLUW Observations of the X-ray Binary HD 153919 (4U 1700-37)”  
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- 001) “New VBLUW Photometry of the X-ray Binary HD 153919 (4U 1700-37). The Optical Micro Variability of the O6.5f Supergiant”  
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### 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., Brisen, 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”  
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  - 29) “Observing Galaxy Assembly with the James Webb Space Telescope”  
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  - 28) “How HST/WFC3 and JWST can Measure Galaxy Assembly and AGN Growth”  
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  - 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”  
Gardner, J. P., Mather, J. C., Clampin, M., Doyon, R., Flanagan, K. A., Franx, M., Greenhouse, M. A., Hammel, H. B., Hutchings, J. B., Jakobsen, P., Lilly, S. J., Lunine, J. I., McCaughrean, M. J., Mountain, M., Rieke, G. H., Rieke, M. J., Sonneborn, G., Stiavelli, M., Windhorst, R. A., & Wright, G. S. 2008, in “Astrophysics in the Next Decade: JWST and Concurrent Facilities”, New Astron. Rev., Vol. 52, Issues. 11–12, pg. 1–24 (Eds. Stockman, P., & Thronson, H.)
  - 25) “High Resolution Science with High Redshift Galaxies”  
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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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- 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”  
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- 10) “The HST Medium Deep Survey: Progress Towards Resolution of the Faint Blue Galaxy Problem”  
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- 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).  
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### 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”  
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- 1) “The Columbus Project Phase 1 Report”  
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### 6.f Non-refereed research papers (published or in press)

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- 260) “Star-Galaxy Separation in the North Ecliptic Pole Time Domain Field”  
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- 258) “The JWST North Ecliptic Pole Time Domain Field (NEP-TDF): Results from HST, JWST, Chandra, and NuSTAR Observations”  
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- 257) “Using Spatially Resolved Star Formation Histories in UVCANDELS to Trace the Evolution of the Resolved Star Formation Rate - Stellar Mass Correlation”  
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- 256) “Probing the Relationship Between Early Star Formation and CO in the Dwarf Irregular Galaxy WLM with JWST”  
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- 255) “Three Weeks of Digging for PEARLS with Chandra”  
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- 254) “TREASUREHUNT: Transients and Variability Discovered with the Hubble Space Telescope in the JWST North Ecliptic Pole Time Domain Field”  
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- 252) “The Effects of Dust on UV and Optical Sizes of Disk Galaxies”  
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- 251) “The JWST North Ecliptic Pole Time Domain Field: Results from HST and the first year of JWST observations”  
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- 250) “Properties of giant star-forming clumps and their host galaxies observed by HST and JWST in UVCANDELS”  
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- 249) “The Orbiting Configurable Artificial Star (ORCAS) Mission”  
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- 248) “JWST/NIRCam color gradients reveal signs of inside-out quenching in the lensed dusty star-forming galaxy El Anzuelo ( $z=2.3$ )”  
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- 247) “Implications of star-formation histories on the inferred stellar physical properties of galaxies with UVCANDELS”  
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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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- 245) “Detection of the 2175 Å absorption feature in  $2 < z < 3$  galaxies with HST”  
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- 244) “Star Formation and the Role of CO Cores in Dwarf Irregular Galaxy WLM in the Era of JWST”  
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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”

- O'Brien, R., Carleton, T., Windhorst, R. A., Jansen, R. A., Carter, D., Tompkins, S., Caddy, S., Cohen, S. H., Abate, H., Arendt, R. G., Berkheimer, J., Calamida, A., Casertano, S., Driver, S. P., Gelb, C., Goisman, Z., Grogin, N., Henningsen, D., Huckabee, I., Kenyon, S. J., Koekemoer, A. M., Kramer, D., MacKenty, J., Robotham, A., & Sherman, S. 2023, BAAS, 241 (Abstract 207.13)
- 236) "UV-near-IR observations with JWST and HST in the JWST North Ecliptic Pole Time-Domain Field"  
Jansen, R., Windhorst, R., Summers, J., O'Brien, R., Grogin, N., Willmer, C., Conselice, C., Koekemoer, A., the PEARLS Team, & the TREASUREHUNT Team 2023, BAAS, 241 (Abstract 207.05)
- 235) "Modeling Variations in the Thermal Background of the Hubble Space Telescope"  
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- 234) "JWST reveals a  $z \approx 11$  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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- 226) "JWST Cycle 1 Observations of Strongly Lensed High-Redshift Galaxies and an Individual Star"

- Coe, D., Welch, B., Strait, V., Pelliccia, D., Mainali, R., A., Zackrisson, E., James, B., Henry, A., Ravindranath, S., Bradley, L., Bradac, M., Stark, D., Frye, B., Rigby, J., & Windhorst, R. 2022, BAAS, 240 (Abstract 224.02)
- 225) “HST: Hot or Cold? Improving Constraints on the Thermal Foreground of HST”  
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- 224) “SKYSURF: Preliminary 0.2-1.7  $\mu\text{m}$  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”  
Jansen, R., Grogin, N., Windhorst, R., Willmer, C., Koekemoer, A., Hathi, N., Cohen, S., O’Brien, R., & the HST and Webb North Ecliptic Pole Teams 2022, BAAS, 240 (Abstract 203.01)
- 222) “Could we have Missed Half of the Faint Galaxies? Replicating the Hubble XDF to Study Source Confusion from an IGL-EBL Perspective”  
Kramer, D. M., Windhorst, R. A., Jansen, R. A., Cohen, S. H., Carleton, T., and the SKYSURF Team 2022, BAAS, 239 (Abstract 239)
- 221) “The Radio Extragalactic Background Light from Radio Source Counts”  
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- 220) “JWST Cycle 1 Observations of Strongly Lensed High-Redshift Galaxies”  
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- 219) “JWST Cycle 1 Observations of Strongly Lensed High-Redshift Galaxies”  
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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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- 216) “UV-Visible observations with HST in the JWST North Ecliptic Pole Time-Domain Field”  
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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 $\mu$ 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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- 210) “UV–Visible Observations with HST in 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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- 208) “Color-Selected AGN and Variable Objects in the JWST North Ecliptic Pole Time-Domain Field”  
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- 207) “On the Observability of Individual Population III Stars and Their Stellar-mass Black Hole Accretion Disks through Cluster Caustic Transits”  
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- 206) “On the Observability of Individual Population III Stars and Their Stellar-mass Black Hole Accretion Disks through Cluster Caustic Transits”  
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- 205) “A Search for Ly $\alpha$  Emission from Galaxies at  $6 < z < 8$  Using Deep HST Grism Observations: Discovery of a  $z=7.5$  Galaxy”  
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- 203) “Studying Cosmic Dawn with WFIRST”  
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- 202) “The Discovery and Properties of a Newly Discovered Compact Lensing Cluster CLIO at  $z=0.42$ : A unique JWST target”



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- 201) “The JWST North Ecliptic Pole Survey Field for Time-domain Studies”  
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- 200) “Ultra-deep Large Binocular Camera U-band Imaging of the GOODS-North Field: Depth vs. Resolution”  
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- 198) “Galaxy Structure in the Far-Ultraviolet”  
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- 177) “Stellar Population Gradients of Intermediate Redshift Galaxies”  
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- 176) “A Search for  $z \approx 0.5$ -1.1 Ly- $\alpha$  Blobs”  
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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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- 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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- 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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- 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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- 148) “WFC3: Correction of UVIS Fringing Effects at Long Wavelengths”  
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- 147) “WFC3: Optical Alignment and Performance”  
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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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- 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"  
Straughn, A. N., Kuntschner, H., Pirzkal, N., Kuemmel, M., Walsh, J., Cohen, S. H., Windhorst, R. A., Gardner, J. P., Meurer, G., McCarthy, P. J., Hathi, N. P., & the WFC3 Scientific Oversight Committee 2010, BAAS, 215 (Abstract 463.25)
- 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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Neuschaefer, L. W., Casertano, S., Griffiths, R. E., Ratnatunga, K. U., Windhorst, R. A., Ellis, R. S., Gilmore, G., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., & Tyson, J. A. 1994, BAAS, 26, 962 (Abstract 62.01)
- 029) "Structural Properties of Faint Galaxies with HST"  
Casertano, S., Ratnatunga, K. U., Griffiths, R. E., Neuschaefer, L. W., Windhorst, R. A., Ellis, R. S., Gilmore, G., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., Tyson, J. A., & Guhathakurta, P. 1994, BAAS, 26, 962 (Abstract 61.11)
- 028) "Early Results from the HST Medium Deep Survey with WFPC2"  
Griffiths, R. E., Ratnatunga, K. U., Casertano, S., Neuschaefer, L. W., Im, M., Wyckoff, E., Windhorst, R. A., Schmidtke, P., Pascarelle, S., Mutz, S., Ellis, R. S., Gilmore, G., Glazebrook, K., Elson, R. A. W., Green, R. F., Sarajedini, V., Huchra, J. P., Illingworth, G. D., Koo, D. C., Phillips, A. C., Forbes, D. A., Tyson, J. A., McIlroy, P., & Guhathakurta, R. 1994, BAAS, 26, 877 (Abstract 12.09)
- 027) "The HST Deep Survey Near NGC5548: Mergers in a Cluster vs. Field Environment"  
Griffiths, R. E., Ratnatunga, K. U., Casertano, S., Neuschaefer, L. W., Windhorst, R. A., Pascarelle, S. M., Ellis, R. S., Gilmore, G., Glazebrook, K., Green, R. F., Sarajedini, V., Huchra, J. P., Illingworth, G. D., Koo, D. C., & Tyson, J. A. 1994, BAAS, 26, 789 (Abstract 20.07)
- 026) "Clustering of Galaxies in HST Medium-Deep Survey Images"

- Casertano, S., Neuschaefer, L. W., Griffiths, R. E., Ratnatunga, K. U., Windhorst, R. A., Ellis, R. S., Gilmore, G., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., & Tyson, J. A. 1993, BAAS, 25, 1399 (Abstract 71.05)
- 025) "Structure and Photometry of Faint Galaxies in a Magnitude-Limited I-Band Sample from the HST Medium Deep Survey: I"  
Forbes, D. A., Phillips, A. C., Bershad, M. A., Illingworth, G. D., Koo, D. C., Griffiths, R. E., Ratnatunga, K. U., Windhorst, R. A., Ellis, R. S., Gilmore, G., Green, R. F., Huchra, J. P., & Tyson, J. A. 1993, BAAS, 25, 1384 (Abstract 57.06)
- 024) "The Theta-z Relationship for HST Bulges and Disks out to  $z \leq 0.6$ "  
Mutz, S. B., Windhorst, R. A., Schmidtke, P. C., Franklin, B. E., Pascarelle, S. M., Griffiths, R. E., Ratnatunga, K. U., Neuschaefer, L. W., Ellis, R. S., Gilmore, G., Green, R. F., Huchra, J. P., Illingworth, G. D., Koo, D. C., & Tyson, J. A. 1993, BAAS, 25, 1384 (Abstract 57.05)
- 023) "Galaxy Pairs in Deep HST Images: Evidence for Evolution in the Galaxy Merger Rate"  
Franklin, B. E., Windhorst, R. A., Burkey, J. M., & Keel, W. C. 1993, BAAS, 25, 1324 (Abstract 20.01)
- 022) "Morphological Properties of Color-Selected Medium-Deep Survey Galaxies"  
Neuschaefer, L. W., Ratnatunga, K. U., Griffiths, R. E., Windhorst, R. A., Mutz, S. B., Ellis, R. S., Elson, R. A. W., Glazebrook, K., Gilmore, G., Richer, R., Green, R. F., Mader, V., Huchra, J. P., Illingworth, G. D., Koo, D. C., & Tyson, J. A. 1993, BAAS, 25, 1292 (Abstract 3.07)
- 021) "Field Galaxies from the Medium Deep Survey"  
Forbes, D. A., Phillips, A. C., Bershad, M. A., Illingworth, G. D., Koo, D. C., Griffiths, R. E., Ellis, R., Gilmore, G., Green, R., Huchra, J., Ratnatunga, K., Tyson, A., & Windhorst, R. 1993, BAAS, 25, 836 (Abstract 30.03)
- 020) "HST/FOS Spectroscopy of Early-Type Radio Galaxies at  $z \leq 0.6$ "  
Pascarelle, S. M., Windhorst, R. A., Keel, W. C., Bertola, F., McCarthy, P. J., O'Connell, R. W., Renzini, A., & Spinrad, H. 1993, BAAS, 25, 794 (Abstract 5.04)
- 019) "The Angular Correlation Function of Bright Radio Sources from the Green Bank 1.4 GHz Northern Sky Survey"  
Fang, L. Z., Windhorst, R. A., & Rouse, R. 1993, BAAS, 25, 740 (Abstract 118.15)
- 018) "The HST Medium-Deep Survey: Initial Extragalactic Results"  
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  $0.5^\circ$  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>XIX<sup>th</sup></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 <sup>th</sup> 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 $\mu$ 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 $\Theta$ -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 $\Theta$ -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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>st</sup> 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 <sup>st</sup> AAS mtg (Boston, MA)	Hubble's Imaging Surveys of the Ultraviolet Universe: Panchromatic Extragalactic Research
14/07/25	18 <sup>th</sup> 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 <sup>th</sup> 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 (STScl; 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 (STScl; 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](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 <sup>th</sup> 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 <sup>th</sup> Annual Meeting of the American Astronomical Society (1 paper)	Pasadena (CA)	Jan. 1987
V <sup>th</sup> 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 <sup>th</sup> Annual Meeting of the American Astronomical Society (2 poster papers)	Washington (DC)	Jan. 1990
176 <sup>th</sup> 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 <sup>st</sup> 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 <sup>rd</sup> 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 <sup>th</sup> 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 <sup>th</sup> Rencontres de Blois meeting on the "Birth of Galaxies" (Invited Review)	Paris (France)	July 1998
9 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> Annual Meeting of the American Astronomical Society (4 poster papers)	Washington (DC)	Jan. 2006
26 <sup>th</sup> COSPAR Scientific Assembly — High Resolution Imaging from Space (Invited Review)	Beijing, (China)	Jul. 2006
209 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>st</sup> 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 <sup>st</sup> 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 <sup>th</sup> General Assembly of the International Astronomical Union (3 contributed papers)	Baltimore MD, USA	Aug. 1988
VI <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Mar. 1989
VII <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Feb. 1990
VIII <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Mar. 1991
IX <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Apr. 1992
X <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Feb. 1993
XI <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Mar. 1995
XIII <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Apr. 1996
Princeton Conference on "Cosmology Dialogues"	Princeton (NJ)	June 1996
XIV <sup>th</sup> 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 <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Mar. 1998
XVI <sup>th</sup> 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 <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Oct. 2000
XVIII <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Nov. 2001
XX <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Oct. 2003
XXI <sup>th</sup> Steward Observatory Internal Symposium (1 paper)	Tucson AZ, USA	Nov. 2004
Workshop on "Primordial Magnetism"	Tempe (AZ)	Mar. 2011