

# Nimish P. Hathi

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ORCID: <http://orcid.org/0000-0001-6145-5090>

Space Telescope Science Institute, Baltimore, MD, USA

✉ [nphathi@stsci.edu](mailto:nphathi@stsci.edu) / ✉ [nphathi@gmail.com](mailto:nphathi@gmail.com)

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## RESEARCH INTERESTS

Galaxy formation and evolution; High redshift galaxies; Stellar populations; Galaxy structure and morphology; Physical properties of star-forming galaxies; Active Galactic Nuclei; Multi-wavelength surveys; Photometric redshifts; Data processing.

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## EDUCATION

- **Arizona State University**, Tempe, AZ, USA
  - Ph.D. Physics/Astronomy (2008)  
Advisors: Rogier Windhorst & Sangeeta Malhotra  
Thesis: Structural and Physical Properties of High Redshift Galaxies in the Hubble Ultra Deep Field
  - M.S. Physics/Astronomy (2002)
- **University of Queensland**, Brisbane, QLD, Australia
  - M.Sc. Astrophysics (1997)  
Advisor: B. J. O'Mara  
Thesis: A Determination of the Chemical Composition of  $\alpha$  Centauri A from Strong Lines
  - PG Diploma Physics (1995)
- **Gujarat University**, Ahmedabad, Gujarat, India
  - M.Sc. Physics (1993)
  - B.Sc. Physics (1990)

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## WORK/RESEARCH EXPERIENCE

- **Space Telescope Science Institute**, Baltimore, MD, USA
  - STScI Scientist (2020 – present)
  - Support Scientist (2017 – 2020)
- **Laboratoire d'Astrophysique de Marseille**, Marseille, France
  - [Postdoctoral] Research Associate (2013 – 2016)
- **Observatories of the Carnegie Institution for Science**, Pasadena, CA, USA
  - [Postdoctoral] Research Associate (2010 – 2013)
- **University of California**, Riverside, CA, USA
  - [Postdoctoral] Research Scholar (2008 – 2010)
- **Arizona State University**, Tempe, AZ, USA
  - [Graduate] Research Associate (2005 – 2008)

- [Graduate] Research Associate (May 2004 – Dec 2004)
- [Graduate] Research Assistant (May 2003 – Dec 2003)
- **University of Western Australia**, Perth, WA, Australia
  - Academic Visitor (Mar 1998 – Oct 1998)
- **University of Queensland**, Brisbane, QLD, Australia
  - Research Scholar (1996 – 1997)
  - Post-graduate Diploma – Research Project (Feb 1995 – Dec 1995)
- **Space Application Center / ISRO**, Ahmedabad, Gujarat, India
  - Post-graduate – Practical Training (Jun 1993 – Dec 1993)
- **Institute for Plasma Research (IPR)**, Gandhinagar, Gujarat, India
  - Summer School Project (May 1991 – Jul 1991)

## PUBLICATIONS

Total **435** publications

### Refereed

- Number of publications: **238**
- Number of publications as 1<sup>st</sup>/2<sup>nd</sup>/3<sup>rd</sup> author: 9/4/3
- Citations (from the NASA ADS Database) : **18,500+**
- *h*-index: **67** [67 papers with  $\geq 67$  citations]
- 5 papers  $\geq 500$  citations; 16 papers  $\geq 250$  citations; 42 papers  $\geq 100$  citations

### Non-Refereed

- Number of publications: **197**
- Number of publications as 1<sup>st</sup>/2<sup>nd</sup>/3<sup>rd</sup> author: 36/4/11

## PROFESSIONAL ORGANIZATIONS

- Member International Astronomical Union (IAU) — *Since 2015*
- Member Astronomical Society of India (ASI) — *Since 2004*
- Member American Astronomical Society (AAS) — *Since 2003*

## PROFESSIONAL EXPERIENCE

- Referee For Peer-reviewed Journals:
  - The Astrophysical Journal (ApJ)
  - The Astrophysical Journal Letters (ApJL)
  - Monthly Notices of the Royal Astronomical Society (MNRAS)
  - Astronomy & Astrophysics (A&A)
- Panelist NASA and NSF Panels:
  - NSF Astronomy and Astrophysics Research Grants / AAG (2021, 2023)

- NASA Citizen Science Seed Funding Program / CSSFP (2022)
- NASA Astrophysics Theory Program / ATP (2021)
- NASA Astrophysics Data Analysis Program / ADAP (2011, 2013, 2016, 2017, 2018)
- Reviewer NASA Postdoctoral Program / NPP proposal review (2017 – 2023)
- Reviewer Swiss National Science Foundation / SNSF proposal review (2022)
- Reviewer NASA Graduate Research Fellowships proposal review
  - Future Investigators in NASA Earth and Space Science and Technology / FINESST (2019)
  - NASA Earth and Space Science Fellowship / NESSF (2018)
- Chair For Oral/iPoster-Plus sessions at AAS meetings:
  - ‘#213: Galaxies I’ at 236<sup>th</sup> Virtual AAS Meeting (2020)
  - ‘#228: Supernovae, AGN & Galaxies’ at 234<sup>th</sup> AAS Meeting (2019)
  - ‘#201: Galaxy Evolution’ at 232<sup>nd</sup> AAS Meeting (2018)
- Judge Rodger Doxsey Travel Prize for **7** Winter AAS meetings (2016 – 2018, 2020 – 2023)
  - Doxsey Prize Program Task Force Member (2021)
- Judge Chambliss Astronomy Achievement Student Awards at **9** AAS meetings (2011 – 2013, 2018 – 2020, 2022 – 2023)
- Member STScI’s Internal Committees/Groups/Meetings
  - STScI Postdoctoral Fellowship Selection Committee (2021 -- present)
  - STScI Postdoctoral Fellow Hiring Coordination Committee (2021 -- present)
  - ‘STScI Scientists’ Representative (2020 -- present)
  - Roman-Rubin Working Group (2020 -- present)
  - STScI-wide Slitless Spectroscopy Group -- Lead (2019 -- present)
    - HST Grism Working Group -- Co-lead (2022 -- present)
  - STScI/INS ‘Evergreen Campaign’ TechStaff Hiring Committee (2021 -- 2022)
  - HST and JWST TAC Meetings -- STScI Panel Support Scientist/Staff (PSS)
    - HST Cycle 30 (Jun-2022)
    - HST Cycle 29 (Jun-2021)
    - JWST Cycle 1 (Feb-2021)
    - HST Cycle 28 (May-2020)
  - STScI/INS Diversity, Culture, and Respect Working Group (DCRWG)
    - Member (2019 -- 2022)
    - Co-Chair (2021 -- 2022)
- Organizer Conference/Workshop organizing activity as a member of the Local Organizing Committee (LOC) and/or the Scientific Organizing Committee (SOC):
  - SOC: ‘Recipes to Regulate Star Formation at All Scales: From the Nearby Universe to the First Galaxies’ @ STScI, Apr 2024
  - Co-Chair SOC/LOC: ‘Multi-object Spectroscopy for Statistical

Measures of Galaxy Evolution’ @ STScI (Virtual), May 2021

→ Deputy-Chair SOC/LOC: ‘Galaxy Formation and Evolution in the Era of the Nancy Grace Roman Space Telescope’ @ STScI (Virtual), Oct 2020

→ LOC: ‘Inclusive Astronomy 2 (IA2)’ @ STScI, Oct 2019

- Organizer Member of the Seminar Organizing Committee at LAM, Marseille (2013 – 2016)
  - Manager Weekly astro-ph arXiv email listing at LAM, Marseille (2014 – 2016)
  - Volunteer Sort/organize presentations and sessions for **13** AAS meetings (2011 – 2017, 2023)
  - Editor Associate Editor, Frontiers in Astronomy and Space Sciences (2023 – present)
  - Editor Editorial Board, Dataset Papers in Science/Physics/Astrophysics (2013 – 2016)
  - Editor Editorial Board, Conference Papers in Astronomy and Astrophysics (2013 – 2015)
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- Delegate Early Career Focus Session for the Astro2020 Decadal Survey (2018)
  - Member U.S. Extremely Large Telescope / ELT Program — Key Science Program Development Team (2018 – present)
  - Member MSE — Maunakea Spectroscopic Explorer — Science Team (2018 - present)
  - Member Rubin Observatory/LSST — Galaxies Science Collaboration (2018 – present)
  - Member ATHENA — Advanced Telescope for High Energy Astrophysics — Science Working Group: Multiwavelength Synergy (2015 – present)
  - Member TMT — Thirty Meter Telescope — International Science and Development Team: Early Universe, Galaxy Formation and the IGM (2015 – present)
  - Member NASA’s Cosmic Origins Program Analysis Group / COPAG — Science Interest Group / SIG: UV-Optical and Cosmic Dawn (2014 – present)

## **WORK AND PERSONAL RECOGNITIONS/ACHIEVEMENTS**

- Jul 2023 NASA JWST press release ID:2023-114 (Science Team).
- Jun 2023 STScI BRAVO — for the extraordinary effort of the HST help desk members to assist the user community in the weeks leading up to the Cycle 31 HST proposal deadline.
- Mar 2023 STScI BRAVO — for the efforts in developing a new version of the grism extraction software HSTaXe.
- Feb 2023 STScI BRAVO — for the successful completion of this year’s STScI Fellows selection.
- Nov 2022 STScI Bonus Award — as recognition for the outstanding functional work effort in the PAR year 2021-2022.
- Oct 2022 STScI BRAVO — for successfully completing the Evergreen campaign to hire technical staff.

- Sep 2022 STScI Achievement Award — 5-year Service Award
- Sep 2022 STScI BRAVO — for the exemplary and extensive support and work while members of the Diversity, Culture, and Respect Working Group (DCRWG).
- Aug 2022 STScI BRAVO — for the outstanding user support by the HST instrument help desk teams for 2022.
- Jun 2022 STScI BRAVO — for serving as Levelers for the (virtual) HST Cycle 30 TAC.
- Jun 2022 STScI BRAVO — for timely preparation and delivery of a Cycle 30 ACS CAL portfolio that was approved by the HST Mission Office without additional modification.
- Apr 2022 STScI BRAVO — for the extraordinary effort of the HST help desk members to assist the user community in the weeks leading up to the Cycle 30 HST proposal deadline.
- Mar 2022 STScI BRAVO — for successful completion of the first phase of an Evergreen technical staff hiring campaign.
- Mar 2022 STScI BRAVO — for the successful completion of this year’s STScI Fellows selection.
- Nov 2021 STScI BRAVO — for successful release of **Astrogrism** v1.0 package.
- Nov 2021 STScI BRAVO — for ‘above and beyond’ effort to satisfy the urgent need to provide ACS programs during the HST and ACS recovery.
- Jul 2021 STScI BRAVO — for serving as Panel Support Scientists and Levelers for the (virtual) HST Cycle 29 TAC.
- Jun 2021 STScI BRAVO — for proposing, organizing, planning, and ultimately running the STScI Workshop ‘Multi-object Spectroscopy for Statistical Measures of Galaxy Evolution’.
- Apr 2021 STScI BRAVO — for the outstanding user support by the HST instrument help-desk teams in the weeks leading up to the Cycle 29 Phase I deadline.
- Oct 2020 STScI BRAVO — for organizing the very successful ‘Galaxy Formation and Evolution in the Era of the Nancy Grace Roman Space Telescope’ virtual conference.
- Sep 2020 STScI Achievement Awards — Two Diversity-Equity-Inclusion (DEI) Team Awards for outstanding efforts towards:
  - Recommendations from Inclusive Astronomy 2 conference (2019–2020)
  - DCRWG INS Climate Survey (2019)
- May 2020 STScI BRAVO — for an excellent kickoff sprint for the **Astrogrism** software development project.
- Nov 2019 STScI Bonus Award — for outstanding efforts towards organizing the Inclusive Astronomy 2 conference.
- Oct 2019 STScI BRAVO — for exceptional efforts in developing, organizing, and supporting the highly successful Inclusive Astronomy 2 conference.
- Oct 2018 ESO VLT press release — eso1833 (Science Team).

- Aug 2018 Selected by the National Academies of Sciences, Engineering, and Medicine as a delegate for the Early Career Focus Session (Astro2020 Decadal Survey)
- Jan 2018 STScI BRAVO — for helping protect equipment and rescue valuables from water damage during a water leakage in colleague’s office.
- Mar 2017 INAF–Italy / CNRS–France press release (Science Team).
- Nov 2016 Offered tenure-track faculty position at UA, Antofagasta, Chile (declined).
- Sep 2016 Offered tenure-track faculty position at UNAM, Morelia, Mexico (declined).
- Jun 2014 NASA Hubble press release ID:2014-25 (Science Team).
- Nov 2011 NASA Hubble press release ID:2011-31 (Science Team).
- Sep 2011 NASA Hubble press release ID:2011-27 (Science Team).
- Jan 2010 NASA Hubble press release ID:2010-01 (Data Team).
- Jan 2007 Certificate, “Chambliss Student Achievement Awards - Honorable Mention” for poster presentation at the 209<sup>th</sup> AAS Meeting in Seattle, WA, USA.
- Jan 2006 NASA Hubble press release ID:2006-04 (Science Team).
- Dec 2005 Discovery of Supernova 2005mr at  $z \sim 0.68$  in the GOODS-North field (Discovery Team).
- Aug 2005 Astronomy.com article by Ken Croswell on L- & T- Dwarf paper (Co-I).
- Apr 2003 Discovery of the first direct Supernova/GRB connection: GRB 030329 / SN 2003dh (Discovery Team): Many articles on this discovery including *Science* Magazine’s Top 10 for 2003, ASU Department News and UofA News.
- Dec 1997 Master’s Thesis cited in MSSSO (Australia) Annual Report 1997.

## RESEARCH GRANTS AND SCHOLARSHIPS

Note: I have contributed to bringing in **over US\$5 million** in grants through archival/GO proposals, and I have received grants/scholarships totaling **over US\$350,000** (as highlighted in **bold**).

- 2020 – 2025 HST Cycle 28 + 29 ACS/WFC3 Imaging Program (GO 16252 + GO 16793: **Hathi Grant PI: Proposal Co-I: \$23,225**)
- 2023 – 2024 HST Cycle 31 Archival Program (AR 17563: Hathi Proposal Co-I)
- 2023 – 2024 JWST Cycle 2 Archival Program (AR 3305: Hathi Proposal Co-I)
- 2021 – 2024 Cycle 29 Legacy Archival Program (AR 16621: **Hathi Grant Co-I: Proposal Co-I: \$18,000**)
- 2022 – 2023 JWST Cycle 1 Archival Program (AR 2687: Hathi Proposal Co-I)
- 2019 – 2023 HST Cycle 26 UVCANDELS Program (GO 15647: **Hathi Grant Co-I: Proposal Co-I: \$17,000**)
- 2022 STScI – The Director’s Discretionary Research Fund (DDRF) Travel Grant (**Hathi Grant PI: \$3,300**)

- 2017 – 2022 HST Cycle 25 ACS/WFC3 Imaging Program (GO 15278: **Hathi Grant PI: Proposal Co-I: \$12,614**)
- 2018 NSF / NOAO Travel Grant for US ELT KSP Workshop (**Hathi Grant PI: \$1,300**)
- 2018 STScI – The Director’s Discretionary Research Fund (DDRF) Travel Grant (**Hathi Grant PI: \$1,300**)
- 2017 STScI – The Director’s Discretionary Research Fund (DDRF) Travel Grant (**Hathi Grant PI: \$1,300**)
- 2016 TMT–Japan Grant (**Hathi Grant PI: ¥190,084**)
- 2016 NSF/Aspen Center for Physics Grant (**Hathi Grant PI: \$500**)
- 2015 International Astronomical Union/IAU Grant (**Hathi Grant PI: \$2,000**)
- 2014 City of Marseille: Scholarship/Grant for Foreign Researchers (**Hathi Grant PI: €2,000**)
- 2013 AAS International Travel Grant (**Hathi Grant PI: \$2,700**)
- 2013 – 2014 HST/WFC3 Cycle 21 Archival Program (AR 13266: Hathi Proposal Co-I: \$90,000)
- 2013 – 2014 HST/WFC3 Multi-Cycle Treasury CANDELS Program (GO 12060-64: **Hathi Proposal Co-I: \$44,000**): Co-I/Carnegie’s portion of the project.
- 2013 – 2014 NASA ADAP Program (12-ADAP12-0249: Hathi Proposal Co-I: \$180,000)
- 2012 – 2013 HST/WFC3 Cycle 20 Archival Program (AR 12821: Hathi Proposal Co-I: \$90,000)
- 2012 AAS International Travel Grant (**Hathi Grant PI: \$1,800**)
- 2012 AAS Small Research Grant (**Hathi Grant PI: \$4,800**)
- 2011 – 2012 HST/WFC3 Multi-Cycle Treasury CANDELS Program (GO 12060-64: **Hathi Proposal Co-I: \$35,064**): Co-I/Carnegie’s portion of the project.
- 2011 AAS International Travel Grant (**Hathi Grant PI: \$1,500**)
- 2011 – 2013 HST/ACS Cycle 19 Archival Legacy Program (AR 12636: Hathi Proposal Co-I: \$150,000)
- 2010 – 2013 Various HST Programs (GO 11359, 11696, 11702, 12283, 12286, 12177: **Hathi Collaborator: \$150,000**)
- 2007 – 2009 HST/STIS Cycle 16 Archival Legacy Program (AR 11258: Hathi Proposal Co-I: \$180,000)
- 2007 Arizona State University’s Graduate and Professional Student Association Conference Travel Grants (**Hathi Grant PI: \$575**)
- 2004 – 2005 HST/ACS Cycle 13 Archival Program (AR 10298: Hathi Proposal Co-I: \$49,000)
- 1999 – 2008 Awarded scholarships in the form of tuition waivers and health insurance premiums at Arizona State University, Tempe, AZ, USA for MS and PhD programs in Physics & Astronomy. (**Hathi Scholarship PI: ~\$10,000/yr**)



- 1996 – 1997 Postgraduate research scholarship at the Department of Physics, University of Queensland, Brisbane, QLD, Australia. (**Hathi Scholarship PI: A\$15,000/yr**)

## **OBSERVING EXPERIENCE/TELESCOPE TIME AWARDED**

→ **Observing Experience at:** HST, JWST, Palomar, Magellan, Gemini, MMT

→ **Data Reduced/Analyzed for:** HST, JWST, Gemini, MMT, Subaru, CFHT, UKIRT, VLT

→ **Space Telescopes**

- 2023 – 2024 Co-I on the HST WFC3/UVIS SNAP proposal (PI Beckett: GO 17518); various targets from GO 17147. (65 orbits)
- 2023 – 2024 PI on a HST/ACS imaging calibration proposal (CAL/ACS 17331); Observations of 47 Tuc and Omega Cen globular clusters. (6 orbits)
- 2023 – 2024 Co-I on a JWST/NIRSpec spectroscopy proposal (PI Kassin/Pacifici: GO 4291); for high redshift galaxies ( $z \simeq 3$ ) from CEERS. (67.8 hours)
- 2023 – 2024 Co-I on a JWST/MIRI LR spectroscopy proposal (PI Zavala: GO 3703); for high redshift galaxies ( $z \simeq 10$ ) from CEERS. (24.4 hours)
- 2023 – 2024 Co-I on a JWST/NIRSpec IFU spectroscopy proposal (PI Faisst: GO 3045); for high redshift galaxies ( $z \simeq 5$ ) with ALMA data. (57 hours)
- 2022 – 2023 Co-I on a HST/ACS Spectro-polarimetry calibration proposal (CAL/ACS 17257); ACS/WFC Grism-Spectropolarimetry Commissioning/Calibration III. (1 orbit)
- 2022 – 2023 Co-I on the HST WFC3/UVIS pure parallel proposal (PI Scarlata: GO 17147); various parallel fields. (400 orbits)
- 2022 – 2023 PI on a HST/ACS imaging calibration proposal (CAL/ACS 16968); Observations of 47 Tuc and Omega Cen globular clusters. (6 orbits)
- 2022 – 2023 Co-I on a JWST/NIRCam imaging and NIRISS grism spectroscopy proposal (PI Windhorst: GTO 2738); for NEP TDF and Spitzer IDF. (54 hours)
- 2022 – 2023 Co-I on a JWST/NIRSpec IFU spectroscopy proposal (PI Kassin: GO 2123); in the GOODS-S Field. (74.5 hours)
- 2022 – 2023 Co-I on a JWST/NIRCam imaging proposal (PI Marshall: GO 1813); for two  $z \simeq 6$  QSOs. (16 hours)
- 2022 – 2023 Co-I on a JWST/NIRCam, JWST/NIRSpec, JWST/NIRISS imaging and IFU-grism spectroscopy proposal (PI Windhorst: GTO 1176); for cluster and deep fields. (62 hours)
- 2021 – 2022 Co-I on a HST/ACS Spectro-polarimetry calibration proposal (CAL/ACS 16869); Enabling Spectropolarimetry for the ACS II. (3 orbits)
- 2021 – 2022 Co-I on a HST/WFC3 and HST/ACS imaging proposal (PI Jansen: GO 16793); JWST NEP Time-Domain Field. (24 orbits)
- 2021 – 2022 Co-I on a HST/WFC3 grism proposal (PI Lemaux: GO 16684); NIR spectroscopy of the Hyperion proto-supercluster at  $z \simeq 2.5$ . (50 orbits)



- 2021 – 2022 Co-I on a HST/ACS imaging calibration proposal (CAL/ACS 16528); ACS Internal Flat Fields. (16 orbits)
- 2021 – 2022 PI on a HST/ACS imaging calibration proposal (CAL/ACS 16520); Observations of 47 Tuc and Omega Cen globular clusters. (6 orbits)
- 2020 – 2021 Co-I on a HST/ACS Spectro-polarimetry calibration proposal (CAL/ACS 16474); Enabling Spectropolarimetry for the ACS. (5 orbits)
- 2020 – 2021 PI on a HST/ACS imaging calibration proposal (CAL/ACS 16385); ACS Internal Flat Fields. (16 orbits)
- 2020 – 2021 Co-I on a HST/ACS imaging calibration proposal (CAL/ACS 16384); Observations of 47 Tuc and Omega Cen globular clusters. (6 orbits)
- 2020 – 2021 Co-I on a HST/WFC3 and HST/ACS imaging proposal (PI Jansen: GO 16252); JWST NEP Time-Domain Field. (28 orbits)
- 2019 – 2020 PI on a HST/ACS imaging calibration proposal (CAL/ACS 15764); Observations of 47 Tuc and Omega Cen globular clusters. (6 orbits)
- 2019 – 2020 Co-I on the HST/WFC3 imaging program (PI Finkelstein: GO 15697); NIR imaging of a galaxy candidate at  $z > 9$  (2 orbits)
- 2019 – 2020 Co-I on the HST/WFC3 imaging program (PI Faisst: GO 15692); NIR imaging of ALPINE galaxies at  $z \simeq 4.5$  (6 orbits)
- 2019 – 2020 Co-I on the HST/WFC3 imaging program (PI Teplitz: GO 15647); UV imaging of the CANDELS fields (164 orbits)
- 2017 – 2018 PI on a HST/ACS grism calibration proposal (CAL/ACS 15401); Observations of Wolf-Rayet (WR96) star. (1 orbit)
- 2017 – 2018 Co-I on a HST/WFC3 and HST/ACS imaging proposal (PI Jansen: GO 15278); JWST NEP Time-Domain Field. (36 orbits)
- 2017 – 2018 Co-I on a HST/WFC3 grism proposal (PI Tilvi: GO 15187); NIR spectroscopy of  $z \simeq 7.51$  galaxy/possible Quasar. (8 orbits)
- 2016 – 2017 Co-I on a Spitzer/IRAC proposal; imaging of lensing galaxy clusters for JWST GTO program. (PI Yan: GO 13024  $\rightarrow$  52.5 hours)
- 2011 – 2016 Co-I on the HST WISPS grism program; various parallel fields. (PI Malkan: GO 12568  $\rightarrow$  260 orbits, GO 12902  $\rightarrow$  260 orbits, GO 13352/13517  $\rightarrow$  575 orbits, GO 14178  $\rightarrow$  520 orbits)
- 2011 – 2016 Co-I on a Spitzer/IRAC proposal; imaging of the WISPS fields. (PI Colbert: GO 80134  $\rightarrow$  39.4 hours, GO 90230  $\rightarrow$  23.5 hours, GO 10041  $\rightarrow$  24.4 hours, GO 12093  $\rightarrow$  36.9 hours)
- 2014 – 2015 Co-I on the HST FIGS grism program; deep near-infrared spectroscopy in GOODS-S. (PI Malhotra: GO 13779  $\rightarrow$  160 orbits)
- 2012 – 2013 Co-I on a HST/WFC3 imaging program (PI Mechtley: GO 12974); NIR imaging of  $z \simeq 6$  QSO host galaxies. (25 orbits)

- 2010 – 2013 Co-I on the HST CANDELS imaging program (PIs Faber/Ferguson: GO 12060-64); NIR imaging of GOODS, EGS, COSMOS, and UDS fields. (Multi-cycle Treasury Program, 902 orbits)
- 2010 – 2011 Co-I on a HST/WFC3 imaging program (PI Windhorst: GO 12332); NIR imaging of  $z \simeq 6$  QSO host galaxies. (10 orbits)

→ **Ground Telescopes (PI/key Co-I/Large Proposals Only – more than 30 nights )**

- 2018 – 2019 Co-I on a ALMA (Chile) [CII] Large proposal; ALPINE: The ALMA Large Program to INvestigate CII at Early times (69.3 hours)
- 2011 – 2013 Co-I on a 6.5m Magellan Telescope (Chile) FIRE proposal; spectroscopic follow-up of  $z \sim 2$  galaxies in the WISPS fields. (PI McCarthy: 2011A → 2 nights, 2011B → 3 nights, 2012A → 4 nights, 2012B → 4 nights, 2013A → 3 nights, 2013B → 3 nights)
- 2012 PI on a 6.5m Magellan Telescope (Chile) FIRE proposal; spectroscopic follow-up of  $z \sim 2$  galaxies in the HIPPIES fields. (2012B → 3 nights)
- 2011 Co-I on a 10m Keck Telescope (HI, USA) DEIMOS proposal; spectroscopic follow-up of high redshift galaxies in the CANDELS fields. (PI Mobasher: 2011A → 2 nights, 2011B → 3 nights)
- 2004 Co-I on a 8m Gemini-North Telescope (HI, USA) GMOS proposal; spectroscopy of red and high redshift objects. (DDT, 1 night)
- 2003 PI on a 6.5m Multi-Mirror Telescope (FLWO, AZ, USA) Blue Channel Spectrograph proposal; long-slit spectroscopy of GRB 030329 and field elliptical galaxies at  $z \sim 0.2\text{--}0.4$ . (2003A → 2 nights, 2003B → 2 nights)

## **SCIENCE COLLABORATIONS AND CONTRIBUTIONS**

- Member Co-I and/or a Collaborator on large survey teams.
  - JWST Survey – The Next Generation Deep Extragalactic Exploratory Public Survey (NGDEEP) Survey
    - My contributions: Collaborator, Science analysis  
Redshift catalogs, Follow-up observations
  - JWST Survey – The Cosmic Evolution Early Release Science (CEERS) Survey
    - My contributions: Collaborator, Science analysis  
Redshift catalogs, Follow-up observations
  - JWST Survey – JWST Medium-Deep Fields/GTO Program
    - My contributions: CoI, Catalogs, Science analysis  
Follow-up observations
  - HST Survey – UV Imaging of the CANDELS Fields (UVCANDELS)
    - My contributions: CoI, Redshift Catalogs, Science analysis
  - ALMA Survey – The ALMA Large Program to INvestigate C+

- at Early times (ALPINE)
  - ▶ My contributions: CoI, Ancillary spectroscopic data, Science analysis, Follow-up observations
- VLT Survey – VIMOS Survey of the CANDELS fields (VANDELS)
  - ▶ My contributions: Team member, Redshift catalogs, Science analysis, Follow-up observations
- HST Survey – Faint Infrared Grism Survey (FIGS)
  - ▶ My contributions: CoI, Redshift Catalogs, Science analysis  
Data release
- VLT Survey – VIMOS Ultra Deep Survey (VUDS)
  - ▶ My contributions: Team member, Redshift measurements, Follow-up observations, Science analysis
- HST Survey – Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey (CANDELS)
  - ▶ My contributions: CoI, Astrometry and data quality checks, Photometric and Spectroscopic catalogs, Visual classifications, Follow-up observations, Science analysis
- HST Survey – WFC3 Infrared Spectroscopic Parallel Survey (WISPS)
  - ▶ My contributions: CoI, Follow-up observations, Science analysis
- HST Survey – WFC3 Early Release Science (ERS)
  - ▶ My contributions: Team member, Planning observations, Data reduction, Science analysis
- HST Survey – Probing Evolution And Reionization Spectroscopically (PEARS)
  - ▶ My contributions: Team member, Data reduction, Science analysis

## **TEACHING / MENTORING EXPERIENCE**

- **Space Telescope Science Institute (STScI)**, Baltimore, USA
  - Mentor (2020 – present) – Staff Member, Debopam Som
- **Laboratoire d’Astrophysique de Marseille**, Marseille, France
  - Research Mentor/Advisor (2013 – 2016)  
Graduate Students – B. Wang/R. Thomas/B. Ribeiro (Primary Advisor: O. Le Fèvre)
- **Carnegie Observatories**, Pasadena, CA, USA
  - Research Mentor/Advisor (2011 – 2013)  
Graduate Student – Daniel Masters (Primary Advisors: P. McCarthy, B. Mobasher)
- **University of California**, Riverside, CA, USA
  - Research Mentor/Advisor (2009 – 2010)  
Graduate Student – Hooshang Nayyeri (Primary Advisor: B. Mobasher)

- **Arizona State University**, Tempe, AZ, USA
  - Teaching Associate (Jan 2005 – Apr 2005)
    - Spring → Physics 113/114 → General Physics Lab I/II
  - Teaching Associate (Jan 2004 – Apr 2004)
    - Spring → Physics 101 → Introduction to Physics
  - Teaching Assistant (Jan 2003 – Apr 2003)
    - Spring → Physics 113 → General Physics Lab I
  - Teaching Assistant (Jan 2002 – Dec 2002)
    - Spring → Physics 101/114 → Introduction to Physics/General Physics Lab II
    - Summer I → Physics 113 → General Physics Lab I
    - Summer II → Physics 131/132 → University Physics II Rec/Lab
    - Fall → Physics 121 → University Physics I
  - Teaching Assistant (Jan 2001 – Dec 2001)
    - Spring → Astronomy 114 → Astronomy Lab II
    - Summer I → Physics 121/122 → University Physics I Rec/Lab
    - Summer II → Astronomy 114 → Astronomy Lab II
    - Fall → Astronomy 111/Physics 101 → Introduction to Astronomy/Physics
  - Teaching Assistant (Jan 2000 – Dec 2000)
    - Spring → Astronomy 114 → Astronomy Lab II
    - Fall → Astronomy 113 → Astronomy Lab I
  - Teaching Assistant (Jan 1999 – Dec 1999)
    - Spring → Physics 113 → General Physics Lab I
    - Fall → Physics 111 → General Physics I
- **University of Western Australia**, Perth, WA, Australia
  - Lab Demonstrator (Mar 1998 – Jul 1998)
- **University of Queensland**, Brisbane, QLD, Australia
  - Lab Demonstrator (Jul 1997 – Nov 1997)

## **COMPUTER SKILLS**

- **Operating Systems**      Mac OS X, Unix/Linux, Microsoft Windows
- **Data Processing**      Python, IDL, SExtractor, IRAF/PyRAF, SuperMongo, GALFIT
- **Word Processing**      L<sup>A</sup>T<sub>E</sub>X, EMACS, Vi, Word/Pages, Excel/Numbers
- **Image Processing**      DS9, IDL, Python, Gimp
- **Presentation**      L<sup>A</sup>T<sub>E</sub>X, Powerpoint/Keynote, HTML

## **PUBLICATIONS (REFEREED & NON-REFEREED)**

(Journal/Review Papers, PhD Thesis, Conference Presentations, Proceedings,  
Instrument Science Reports, Circulars, Catalogs, Proposals)

**‡ Non-ADS/non-arXiv presentations or white papers]**

**[† arXiv only publications]**

### **First, Second, & Third-Author Publications (900+ citations)**

- [67] “Imaging Spectropolarimetry – A New Observing Mode on the HST/ACS Instrument”  
Hathi, N.; Hines, D.; Cohen, Y.; Grogin, N.; Chiaberge, M.  
2023, 242<sup>nd</sup> AAS Meeting (Abstract 230.07).
- [66] “ACS Data Handbook v. 12.0”  
Hathi, N. P.; Lucas, R. A.; Ryon, J. E.; et al.  
2023, ACS Data Handbook, Version 12.0, (Baltimore: STScI).
- [65] “ACS CCD Stability Monitor”  
Hathi, N.; Anderson, J.; Avila, R.; et al.  
2022, HST Cycle 30 Proposal (ID #16968).
- [64] “What We’ve Learned After 20 Years On-Orbit: Advice for Observing With HST’s Advanced Camera for Surveys”  
Lucas, R.; Hathi, N.; Grogin, N. A.  
2022, 240<sup>th</sup> AAS Meeting (Abstract 206.02).
- [63] “ACS Internal Flat Fields”  
Cohen, Y.; Grogin, N.; Hathi, N. P.  
2021, HST Cycle 29 Proposal (ID #16528).
- [62] “ACS CCD Stability Monitor”  
Hathi, N.; Anderson, J.; Avila, R.; et al.  
2021, HST Cycle 29 Proposal (ID #16520).
- ‡ [61] “Roman2020 conference schedule: ‘Galaxy Formation and Evolution in the Era of the Nancy Grace Roman Space Telescope’”  
Ryan, R.; Deustua, S.; Hathi, N.; Mutchler, M.  
2020, Zenodo (Other), <https://doi.org/10.5281/zenodo.4075328>
- [60] “ACS Internal Flat Fields”  
Hathi, N.; Hoffmann, S.; Grogin, N.  
2020, HST Cycle 28 Proposal (ID #16385).
- [59] “HST/ACS Grism: Updating Trace and Wavelength Calibrations”  
Hathi, N. P.; Pirzkal, N.; Grogin, N.; Chiaberge, M.  
2020, 236<sup>th</sup> AAS Meeting (Abstract 242.02).
- [58] “Advice for Planning ACS Observations”  
Lucas, R.; Hathi, N. P.; Grogin, N. A.  
2019, Instrument Science Report ACS 2019-07

- [57] “SBC Absolute Flux Calibration”  
Avila, R. J.; Bohlin, R.; Hathi, N.; et al.  
2019, Instrument Science Report ACS 2019-05
- [56] “ACS CCD Stability Monitor”  
Hathi, N.; Grogin, N.; Bellini, A.; et al.  
2019, HST Cycle 27 Proposal (ID #15764).
- [55] “Trace and Wavelength Calibrations of the HST/ACS G800L Grism”  
Hathi, N. P.; Pirzkal, N.; Grogin, N.; Chiaberge, M.  
2019, 234<sup>th</sup> AAS Meeting (Abstract 301.08).
- [54] “The ACS/WFC G800L Grism: I. Long-term Stability”  
Hathi, N.; Pirzkal, N.; Grogin, N.; Chiaberge, M.  
2019, Instrument Science Report ACS 2019-01
- ‡ [53] “Large VLT Spectroscopic Surveys in the CANDELS fields”  
Hathi, N. P.  
2018, Talk presentation, ‘Past, Current and Future Galaxy Surveys’ CANDELS Meeting and TolTEC Workshop at Amherst, MA.
- [52] “Updating the HST/ACS G800L Grism Calibration”  
Hathi, N. P.; Pirzkal, N.; Grogin, N.; Chiaberge, M.; ACS Team  
2018, 232<sup>nd</sup> AAS Meeting (Abstract 119.05).
- [51] “The VIMOS Ultra Deep Survey (VUDS): Rest-frame UV Spectroscopy for  $\sim 10000$  Star-forming Galaxies at  $z \sim 2-6$ ”  
Hathi, N.; Le Fèvre, O.; VUDS Team  
2018, 231<sup>st</sup> AAS Meeting (Abstract 149.14).
- [50] “The Hubble Space Telescope ‘Program of Last Resort’”  
Bellini, A.; Grogin, N. A.; Hathi, N.; Brown, T. M.  
2017, Instrument Science Report ACS 2017-12
- [49] “ACS/WFC Grism”  
Hathi, N.; Pirzkal, N.; Grogin, N.; Chiaberge, M.  
2017, HST Cycle 25 Proposal (ID #15401).
- ‡ [48] “Exploring the Nature of Lyman Alpha Galaxies at  $z \sim 2-6$  using Large VLT Spectroscopic Surveys: A prelude to TMT science”  
Hathi, N. P.  
2016, Talk presentation, ‘TMT Science Forum’ Meeting at Kyoto, Japan.
- [47] “The VIMOS Ultra Deep Survey: Ly $\alpha$  Emission and Stellar Populations of Star-Forming Galaxies at  $2 < z < 2.5$ ”  
Hathi, N. P.; Le Fèvre, O.; Ilbert, O.; et al.  
2016, A&A, 588, A26 (18pp)
- [46] “The VIMOS Ultra Deep Survey: Ly $\alpha$  Emission and Stellar Populations of Star-Forming Galaxies at  $2 < z < 6$ ”  
Hathi, N. P.; Le Fèvre, O.; the VUDS team  
2016, IAUS, 319, 22.



- ‡ [45] “Stellar Populations of Lyman Alpha Emitters at  $z = 2-6$ ”  
Hathi, N. P.  
2016, Talk presentation, ‘The Reionization Epoch: New Insights and Future Prospects’ Conference at Aspen, CO.
- [44] “The evolving SFR- $M_*$  relation and SSFR since  $z \sim 5$  from the VUDS spectroscopic survey”  
Tasca, L. A. M.; Le Fèvre, O.; Hathi, N. P.; et al.  
2015, A&A, 581, A54 (9pp)
- [43] “The VIMOS Ultra Deep Survey: Ly $\alpha$  Emission and Stellar Populations of Star-Forming Galaxies at  $z = 2-6$ ”  
Hathi, N. P.; Le Fèvre, O.  
2015, 29<sup>th</sup> IAU General Assembly (Abstract #2237132).
- ‡ [42] “The VIMOS Ultra Deep Survey: Ly $\alpha$  Emission and Stellar Populations of Star-Forming Galaxies at  $2 < z < 6$ ”  
Hathi, N. P.  
2015, Talk presentation, ‘First stars, galaxies, and black holes: Now and Then’ Conference at Groningen, The Netherlands.
- ‡ [41] “The VIMOS Ultra Deep Survey: Ly $\alpha$  Emission and Stellar Populations of Star-Forming Galaxies at  $2 < z < 6$ ”  
Hathi, N. P.  
2015, Talk presentation, ‘Back at the Edge of the Universe: Latest results from the deepest astronomical surveys’ Conference at Sintra, Portugal.
- ‡ [40] “Deep Spitzer/IRAC Imaging of Compact Galaxy Groups/Clusters for JWST ‘First Light’ Search”  
Hathi, N. P.; Windhorst, R. A.; Yan, H.; et al.  
2015, White Paper to the NASA Astrophysics “Cosmic Origins Program Analysis Group” — Science Analysis Group 9 (<http://cor.gsfc.nasa.gov/copag/copag.php>)
- ‡ [39] “Rest-frame UV Spectroscopy of Star-forming Galaxies at  $2 < z < 2.5$  from the VIMOS Ultra Deep Survey”  
Hathi, N. P.  
2014, Talk presentation, ‘EWASS 2014 : European Week of Astronomy and Space Science’ Conference at Geneva, Switzerland.
- ‡ [38] “Rest-frame UV Spectroscopy of Star-forming Galaxies at  $2 < z < 2.5$ ”  
Hathi, N. P.; Le Fèvre, O.; and the VUDS team.  
2014, Poster presentation, ‘Multiwavelength-surveys: Galaxy formation and evolution from the early universe to today’ Conference at Dubrovnik, Croatia.
- [37] “Stellar Populations of Lyman Break Galaxies at  $z \simeq 1-3$  in the HST/WFC3 Early Release Science Observations”  
Hathi, N. P.; Cohen, S. H.; Ryan, R. E. Jr.; et al.  
2013, ApJ, 765, 88 (10pp)
- [36] “Investigating HST/WFC3 Selected Lyman Break Galaxies at  $z = 1-3$ ”  
Hathi, N. P.; McCarthy, P. J.; Cohen, S. H.; et al.  
2013, 221<sup>st</sup> AAS Meeting (Abstract 228.06).

- [35] “Magellan FIRE Spectroscopy of Star-Forming Galaxies at  $1.5 < z < 2.3$  Selected from the WFC3 Infrared Spectroscopic Parallels (WISP) Survey”  
Masters, D. C.; McCarthy, P. J.; Hathi, N. P.; WISP Team  
2013, 221<sup>st</sup> AAS Meeting (Abstract 147.40).
- [34] “Near-Infrared Survey of the GOODS-North Field: Search for Luminous Galaxy Candidates at  $z \gtrsim 6.5$ ”  
Hathi, N. P.; Mobasher, B.; Capak, P.; et al.  
2012, ApJ, 757, 43 (14pp)
- ‡ [33] “Stellar Populations of HST/WFC3 selected Lyman break galaxies at  $z = 1-3$ ”  
Hathi, N. P.; McCarthy, P. J.; Cohen, S. H.; et al.  
2012, Poster presentation, ‘Ultraviolet Astronomy: HST and Beyond’ Conference at Kauai, HI.
- [32] “The Evolution of Lyman Break Galaxies Between  $z = 1.5$  and  $z = 5.0$ ”  
Hathi, N. P.; McCarthy, P. J.; Cohen, S. H.; et al.  
2012, 219<sup>th</sup> AAS Meeting (Abstract 246.25).
- ‡ [31] “The Evolution of Lyman Break Galaxies Between  $z = 1.5$  and  $z = 5$ ”  
Hathi, N. P.  
2011, Talk presentation, ‘Young and Bright: Understanding High Redshift Structures’ Conference at Potsdam, Germany.
- [30] “The Hubble Space Telescope Wide Field Camera 3 Early Release Science data: Panchromatic Faint Object Counts from  $0.2-2 \mu\text{m}$  Wavelength”  
Windhorst, R. A.; Cohen, S. H.; Hathi, N. P.; et al.  
2011, ApJS, 193, 27 (33pp)
- ‡ [29] “Lyman Break Galaxies at  $z \sim 1-3$  in the GOODS-S Field from the HST/WFC3 Early Release Science Observations”  
Hathi, N. P.; Ryan, R.; Cohen, S.; et al.  
2011, Poster presentation, ‘Center for Galaxy Evolution (CGE) Inaugural’ Workshop at Irvine, CA.
- [28] “Lyman Alpha Morphologies of LAEs at  $z \sim 4.4$ ”  
Finkelstein, S.; Cohen, S.; Hathi, N.; et al.  
2011, NOAO Proposal (ID #2011A-0336).
- [27] “Results from Medium Deep Near-UV Imaging with the HST/WFC3 Early Release Science Data”  
Cohen, S. H.; Ryan, R. E. Jr.; Hathi, N. P.; et al.  
2011, 217<sup>th</sup> AAS Meeting (Abstract 335.18).
- [26] “Near-infrared Imaging and  $z = 7$  Galaxy Candidates in the GOODS-North Field”  
Hathi, N. P.; Mobasher, B.; Capak, P.  
2011, 217<sup>th</sup> AAS Meeting (Abstract 128.06).
- ‡ [25] “UV-dropout Galaxies in the GOODS-South Field from WFC3 Early Release Science Observations”

- Hathi, N. P.; Ryan, R.; Cohen, S.; et al.  
2010, Poster presentation, ‘Science with the HST - III’ Conference at Venice, Italy.
- [24] “Galaxy Formation in the Reionization Epoch as Hinted by Wide Field Camera 3 Observations of the Hubble Ultra Deep Field”  
Yan, H.; Windhorst, R. A.; Hathi, N. P.; et al.  
2010, RA&A, 10, 867-904
- [23] “UV-dropout Galaxies in the GOODS-South Field from WFC3 Early Release Science Observations”  
Hathi, N. P.; Ryan, R. E., Jr.; Cohen, S. H.; et al.  
2010, ApJ, 720, 1708-1716
- [22] “HST/WFC3 Early Release Science in the GOODS-South Field: UV-dropout Galaxies at  $z = 2-3$ ”  
Hathi, N. P.; Ryan, R. E. Jr.; Cohen, S. H.; et al.  
2010, 215<sup>th</sup> AAS Meeting (Abstract 463.37).
- [21] “The High- $z$  Universe as Viewed by WFC3”  
Yan, H.; Windhorst, R.; Hathi, N.; et al.  
2010, 215<sup>th</sup> AAS Meeting (Abstract 463.04).
- [20] “Stellar Populations of Late-Type Bulges at  $z \simeq 1$  in the Hubble Ultra Deep Field”  
Hathi, N. P.; Ferreras, I.; Pasquali, A.; et al.  
2009, ApJ, 690, 1866-1882
- [19] “Results from the PEARS Spectrophotometric Redshift Survey in the Northern and Southern GOODS Fields”  
Cohen, S. H.; Ryan, R. E., Jr.; Hathi, N. P.; et al.  
2009, 213<sup>th</sup> AAS Meeting (Abstract 424.26).
- [18] “High Redshift Galaxies in the Hubble Ultra Deep Field”  
Hathi, N. P.  
2008, PASP, 120, 1255-1257
- [17] “GiGa: the Billion Galaxy HI Survey – Tracing Galaxy Assembly from Reionization to the Present”  
Windhorst, R. A.; Cohen, S. H.; Hathi, N. P.; et al.  
2008, AIPC, 1035, 318
- [16] “Structural and Physical Properties of High Redshift Galaxies in the Hubble Ultra Deep Field”  
Hathi, N. P.  
2008, Ph.D. Thesis, Arizona State University, Tempe, AZ, USA
- [15] “An Overdensity of  $i'$ -dropouts among a Population of Excess Field Objects in the Virgo Cluster”  
Yan, H.; Hathi, N. P.; Windhorst, R. A.  
2008, ApJ, 675, 136-145

- [14] “Starburst Intensity Limit of Galaxies at  $z \simeq 5-6$ ”  
Hathi, N. P.; Malhotra, S.; Rhoads, J. E.  
2008, ApJ, 673, 686-693
- [13] “Surface Brightness Profiles of Composite Images of Compact Galaxies at  $z \simeq 4-6$  in the Hubble Ultra Deep Field”  
Hathi, N. P.; Jansen, R. A.; Windhorst, R. A.; et al.  
2008, AJ, 135, 156-166
- [12] “High Resolution Science with High Redshift Galaxies”  
Windhorst, R. A.; Hathi, N. P.; Cohen, S. H.; et al.  
2008, AdSpR, 41, 1965-1971
- [11] “HUDF Galaxies at  $z \simeq 4-6$ : Structural and Physical Properties”  
Hathi, N. P.  
2008, 211<sup>th</sup> AAS Meeting (Abstract 35.04).
- [10] “An Overdensity of Very Red Field Objects Around M60/NGC4647”  
Yan, H.; Hathi, N. P.; Windhorst, R. A.  
2008, 211<sup>th</sup> AAS Meeting (Abstract 122.06).
- [9] “The Galaxy Luminosity Function at  $z \simeq 1$  in the HUDF: Probing the Dwarf Population”  
Ryan, R. E., Jr.; Hathi, N. P.; Cohen, S. H.; et al.  
2007, ApJ, 668, 839-845
- ‡ [8] “Surface Brightness Profiles of Composite Images of Compact Galaxies at  $z \sim 4-6$  in the HUDF”  
Hathi, N. P.; Jansen, R. A.; Windhorst, R.; et al.  
2007, Poster presentation, ‘Astrophysics in the Next Decade: JWST and Concurrent Facilities’ Workshop at Tucson, AZ.
- [7] “Bulge Stellar Population in Late-type Spiral Galaxies at  $z \simeq 1$  in the HUDF”  
Hathi, N. P.; Ferreras, I.; Pasquali, A.; et al.  
2007, 210<sup>th</sup> AAS Meeting (Abstract 008.06).
- [6] “Surface Brightness Properties of  $z \simeq 4-6$  Galaxies in the HUDF”  
Hathi, N. P.; Jansen, R. A.; Cohen, S. H.; et al.  
2007, 209<sup>th</sup> AAS Meeting (Abstract 171.02).  
[Chambliss Student Achievement Awards - Honorable Mention]
- [5] “Constraining the Distribution of L- & T-Dwarfs in the Galaxy”  
Ryan, R. E., Jr.; Hathi, N. P.; Cohen, S. H.; Windhorst, R. A.  
2005, ApJ, 631, L159-L162
- [4] “Constraining the Distribution of L- & T-Dwarfs in the Galaxy”  
Ryan, R. E., Jr.; Hathi, N. P.; Cohen, S. H.; Windhorst, R. A.  
2005, 205<sup>th</sup> AAS Meeting (Abstract 11.12).
- [3] “GRB 030329: Supernova Spectrum Emerging”  
Matheson, T.; Garnavich, P.; Hathi, N.; et al.  
2003, GCN, 2107, 1

- ‡ [2] “Four Years Performance of a Niobium Resonant Bar Gravitational Wave Antenna at UWA”  
Hathi, N. P.; Heng, I. S.; Blair, D.  
1998, Talk presentation, 13<sup>th</sup> National Congress of the Australian Institute of Physics.  
(Perth, Western Australia ed., Vol. N/A, pp. 195)
- † [1] “A Determination of the Chemical Composition of  $\alpha$ -Centauri A from Strong Lines”  
Hathi, N. P.  
1997, Master’s Thesis, University of Queensland, Brisbane, QLD, Australia (astro-ph/0408135)

### Other Co-Author Publications

- †[368] “Near-infrared emission line diagnostics for AGN from the local Universe to redshift 3”  
Calabrò, A.; et al.  
2023, A&A, submitted (arXiv:2306.08605)
- †[367] “PEARLS: Near Infrared Photometry in the JWST North Ecliptic Pole Time Domain Field”  
Willmer, C.; et al.  
2023, ApJ, in press (arXiv:2309.00031)
- †[366] “NGDEEP Epoch 1: The Faint-End of the Luminosity Function at  $z \simeq 9\text{--}12$  from Ultra-Deep JWST Imaging”  
Leung, G.; et al.  
2023, ApJ, in press (arXiv:2306.06244)
- †[365] “Two massive, compact, and dust-obscured candidate  $z \simeq 8$  galaxies discovered by JWST”  
Akins, H.; et al.  
2023, ApJ, in press (arXiv:2304.12347)
- †[364] “UV-Bright Star-Forming Clumps and Their Host Galaxies in UVCANDELS at  $0.5 \leq z \leq 1$ ”  
Martin, A.; et al.  
2023, ApJ, in press (arXiv:2308.00041)
- ‡[363] “The Origin of the Observed Ly $\alpha$  EW Distribution of Dwarf Galaxies at  $z \simeq 2$ ”  
Snapp-Kolas, C.; et al.  
2023, ApJ, in press
- ‡[362] “The VANDELS ESO public spectroscopic survey: the spectroscopic measurements catalogue”  
Talia, M.; et al.  
2023, A&A, in press
- [361] “Elentári: A massive proto-supercluster at  $z \simeq 3.3$  in the COSMOS field”  
Forrest, B.; et al.  
2023, MNRAS, 526, L56 (7pp)
- ‡[360] “JWST Long-term Monitoring in the Northern CVZ for Time-domain Science”  
Yan, H.; et al.  
2023, White Paper to the “Long-Term Variability Monitoring Strategies for HST and JWST” Working Group
- ‡[359] “HST & JWST Long-term Monitoring of intermediate- and high-redshift AGN through rest-frame optical and near-UV variability in JWST’s Northern CVZ”  
Jansen, R.; et al.  
2023, White Paper to the “Long-Term Variability Monitoring Strategies for HST and JWST” Working Group
- ‡[358] “JWST Long-term Monitoring and Objects at the Dawn of the Dark Age”  
Wang, L.; et al.  
2023, White Paper to the “Long-Term Variability Monitoring Strategies for HST and JWST” Working Group



- [357] “Updates for Slitless Spectroscopy with HST/WFC3 and ACS”  
Pidgeon, A.; et al.  
2023, 242<sup>nd</sup> AAS Meeting (Abstract 102.06).
- [356] “A CEERS Discovery of an Accreting Supermassive Black Hole 570 Myr after the Big Bang: Identifying a Progenitor of Massive  $z > 6$  Quasars”  
Larson, R.; et al.  
2023, ApJ, 953, L29 (26pp)
- [355] “A spatially resolved analysis of star-formation burstiness by comparing UV and H $\alpha$  in galaxies at  $z \sim 1$  with UVCANDELS”  
Mehta, V.; et al.  
2023, ApJ, 952, 133 (17pp)
- [354] “Delving deep: a population of extremely dusty dwarfs observed by JWST”  
Bisigello, L.; et al.  
2023, A&A, 676, A76 (29pp)
- ‡[353] “PEARLS: Near Infrared Photometry in the JWST North Ecliptic Pole Time Domain Field”  
Willmer, C.; et al.  
2023, Zenodo (Dataset), <https://doi.org/10.5281/zenodo.7934393>
- [352] “The VANDELS survey: the ionizing properties of star-forming galaxies at  $3 \leq z \leq 5$  using deep rest-frame ultraviolet spectroscopy”  
Saldana-Lopez, A.; et al.  
2023, MNRAS, 522, 6295 (31pp)
- ‡[351] “spacetelescope/hstaxe: v1.0.5”  
Sosey, M.; et al.  
2023, Zenodo (Software), <https://doi.org/10.5281/zenodo.8136948>
- [350] “Spectroscopic confirmation of CEERS NIRCам-selected galaxies at  $z \simeq 8-10$ ”  
Arrabal Haro, P.; et al.  
2023, ApJ, 951, L22 (19pp)
- [349] “Fraction of Clumpy Star-Forming Galaxies at  $0.5 \leq z \leq 3$  in UVCANDELS: Dependence on Stellar Mass and Environment”  
Sattari, Z.; et al.  
2023, ApJ, 951, 147 (13pp)
- [348] “A redshift 1.78 lensed triply-imaged galaxy hosting a supernova discovered by JWST”  
Polletta, M.; et al.  
2023, A&A, 675, L4 (6pp)
- [347] “CEERS Key Paper VI: JWST/MIRI Uncovers a Large Population of Obscured AGN at High Redshifts”  
Yang, G.; et al.  
2023, ApJ, 950, 5 (11pp)
- [346] “CEERS Spectroscopic Confirmation of NIRCам-Selected  $z \gtrsim 8$  Galaxy Candidates with JWST NIRSpec: Initial Characterization of their Properties”

- Fujimoto, S.; et al.  
2023, ApJ, 949, L25 (18pp)
- [345] “CEERS Key Paper V: Galaxies at  $4 < z < 9$  are Bluer than They Appear – Characterizing Galaxy Stellar Populations from Rest-Frame  $\sim 1$  micron Imaging”  
Papovich, C.; et al.  
2023, ApJ, 949, L18 (23pp)
- [344] “VizieR Online Data Catalog: Emission Line Galaxy Pairs from the WISP survey (Dai+, 2021)”  
Dai, Y.; et al.  
2023, yCat, 19230156
- [343] “Investigating the Dominant Environmental Quenching Process in UVCANDELS/COSMOS Groups”  
Kuschel, M.; et al.  
2023, ApJ, 947, 17 (10pp)
- [342] “JWST’s PEARLS: dust attenuation and gravitational lensing in the backlit-galaxy system VV 191”  
Keel, W.; et al.  
2023, AJ, 165, 166 (20pp)
- [341] “VizieR Online Data Catalog: CANDELS/SHARDS multiwavelength cat. in GOODS-N (Barro+, 2019)”  
Barro, G.; et al.  
2023, yCat, 22430022
- [340] “CEERS Key Paper III: The Diversity of Galaxy Structure and Morphology at  $z = 3-9$  with JWST”  
Kartaltepe, J.; et al.  
2023, ApJ, 946, L15 (17pp)
- [339] “CEERS Key Paper II: A First Look at the Resolved Host Properties of AGN at  $3 < z < 5$  with JWST”  
Kocevski, D.; et al.  
2023, ApJ, 946, L14 (14pp)
- [338] “CEERS Key Paper I: An Early Look into the First 500 Myr of Galaxy Formation with JWST”  
Finkelstein, S.; et al.  
2023, ApJ, 946, L13 (35pp)
- [337] “First Look at  $z > 1$  Bars in the Rest-Frame Near-Infrared with JWST Early CEERS Imaging”  
Guo, Y.; et al.  
2023, ApJ, 945, L10 (13pp)
- [336] “The Physical Conditions of Emission-Line Galaxies at Cosmic Dawn from JWST/NIRSpec Spectroscopy in the SMACS 0723 Early Release Observations”  
Trump, J.; et al.  
2023, ApJ, 945, 35 (11pp)

- [335] “Dusty starbursts masquerading as ultra-high redshift galaxies in JWST observations”  
Zavala, J.; et al.  
2023, ApJ, 943, L9 (14pp)
- [334] “JWST’s PEARLS: A JWST/NIRCam view of ALMA sources”  
Cheng, C.; et al.  
2023, ApJ, 942, L19 (15pp)
- [333] “JWST’s PEARLS: Bright 1.5–2.0  $\mu\text{m}$  Dropouts in the Spitzer/IRAC Dark Field”  
Yan, H.; et al.  
2023, ApJ, 942, L8 (13pp)
- [332] “Optimized Photometric Redshifts for the Cosmic Assembly Near-Infrared Deep Extragalactic Legacy Survey (CANDELS)”  
Kodra, D.; et al.  
2023, ApJ, 942, 36 (25pp)
- [331] “JWST PEARLS: Prime Extragalactic Areas for Reionization and Lensing Science: Project Overview and First Results”  
Windhorst, R.; et al.  
2023, AJ, 165, 13 (43pp)
- [330] “Implications of star-formation histories on the inferred stellar physical properties of galaxies with UVCANDELS”  
Mehta, V.; et al.  
2023, 241<sup>st</sup> AAS Meeting (Abstract 467.03).
- [329] “The Effect of Galaxy Interactions on Star Formation at  $0.5 < z < 3$ ”  
Shah, E.; et al.  
2023, 241<sup>st</sup> AAS Meeting (Abstract 455.05).
- [328] “Star-Forming Clumpy Galaxies in UVCANDELS at  $0.5 \leq z \leq 3$ ”  
Sattari, Z.; et al.  
2023, 241<sup>st</sup> AAS Meeting (Abstract 249.07).
- [327] “Reconstructing Spatially Resolved Star Formation Histories with UVCANDELS”  
Olsen, C.; et al.  
2023, 241<sup>st</sup> AAS Meeting (Abstract 249.06).
- [326] “UV Size Evolution of Disk Galaxies”  
Nedkova, K.; et al.  
2023, 241<sup>st</sup> AAS Meeting (Abstract 249.05).
- [325] “The Evolution of Galaxy Rest-Frame UV Colors from  $z = 2\text{--}4$  with UVCANDELS”  
Morales, A.; et al.  
2023, 241<sup>st</sup> AAS Meeting (Abstract 249.04).
- [324] “UV-Bright Star-Forming Clumps and Their Host Galaxies in UVCANDELS at  $0.5 \leq z \leq 1$ ”  
Martin, A.; et al.  
2023, 241<sup>st</sup> AAS Meeting (Abstract 249.03).

- [323] “The UVCANDELS Photometric Catalogs and UV Luminosity Function at Cosmic Noon in the CANDELS fields”  
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