

Nimish P. Hathi

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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.

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. Physics/Astrophysics (1997)
Advisor: B. J. O'Mara
Thesis: A Determination of the Chemical Composition of α Centauri A from Strong Lines
 - Postgraduate Diploma in Science (Physics)
- **Gujarat University**, Ahmedabad, Gujarat, India
 - M.Sc. Physics (1993)
 - B.Sc. Physics (1990)

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 483 publications

Refereed

- Number of publications: **258**
- Number of publications as 1st/2nd/3rd author: 9/4/4
- Citations (from the NASA ADS Database) : **21,000+**
- *h*-index: **72** [72 papers with ≥ 72 citations]
- 5 papers ≥ 500 citations; 17 papers ≥ 250 citations; 51 papers ≥ 100 citations

Non-Refereed

- Number of publications: **225**
- Number of publications as 1st/2nd/3rd author: 41/5/12

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:
 - NASA Astrophysics Theory Program / ATP (2021, 2023)

- NSF Astronomy and Astrophysics Research Grants / AAG (2021, 2023)
- NASA Citizen Science Seed Funding Program / CSSFP (2022)
- 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 sessions at various meetings:
 - ‘#3a: The CGM-IGM and SF activity’ at STScI Spring Symposium (2024)
 - ‘#213: Galaxies I’ at 236th Virtual AAS Meeting (2020)
 - ‘#228: Supernovae, AGN & Galaxies’ at 234th AAS Meeting (2019)
 - ‘#201: Galaxy Evolution’ at 232nd 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 **10** AAS meetings (2011 – 2013, 2018 – 2020, 2022 – 2024)
- Member STScI’s Internal Committees/Groups/Meetings
 - STScI Ambassador (2024 -- present)
 - STScI AAS Agent (2024 -- 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 Postdoctoral Fellowship Selection Committee (2021 -- 2022)
 - STScI/INS ‘Evergreen Campaign’ TechStaff Hiring Committee (2021 -- 2022)
 - STScI Panel Support Work for HST and JWST TAC Meetings
 - HST Cycle 32 (Apr-Jun 2024)
 - 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

- Dec 2023 STScI BRAVO — for the efforts in development and first public release of the `slitlessutils` software for cutting-edge analysis of all Hubble Space Telescope slitless spectroscopic data.
- 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 AAS Meeting/Caltech press release (Science Team).
- 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 209th 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**)
- 2024 – 2025 JWST Cycle 3 Legacy Archival Program (AR 4695: Hathi Proposal Co-I)
- 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**

- 2024 – 2025 Co-I on a JWST/NIRSpec spectroscopy proposal (PI Dickinson: GO 6368); The CANDELS-Area Prism Epoch of Reionization Survey (CAPERS). (194 hours)
- 2024 – 2025 Co-I on a JWST/NIRCam grism spectroscopy proposal (PI Kartaltepe: GO 5398); The Public Observation Pure Parallel Infrared Emission-Line Survey (POPPIES). (400 hours)
- 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)

\rightarrow 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 \rightarrow 2 nights, 2011B \rightarrow 3 nights, 2012A \rightarrow 4 nights, 2012B \rightarrow 4 nights, 2013A \rightarrow 3 nights, 2013B \rightarrow 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 \rightarrow 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 \rightarrow 2 nights, 2011B \rightarrow 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 \rightarrow 2 nights, 2003B \rightarrow 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 (PEARLS)
 - ▶ 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 (2024 – present) – Principal Staff Scientist, Sachindev Shenoy
 - Mentor (2020 – present) – Senior Staff Scientist, 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^AT_EX, EMACS, Vi, Word/Pages, Excel/Numbers
- **Image Processing** DS9, IDL, Python, Gimp
- **Presentation** L^AT_EX, Powerpoint/Keynote, HTML

PUBLICATIONS (REFEREED & NON-REFEREED)

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

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