# 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
  - $\rightarrow$  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

- $\rightarrow$  M.S. Physics/Astronomy (2002)
- University of Queensland, Brisbane, QLD, Australia
  - $\rightarrow$  M.Sc. Physics/Astrophysics (1997)

Advisor: B. J. O'Mara

Thesis: A Determination of the Chemical Composition of  $\alpha$  Centauri A from Strong Lines

- → Postgraduate Diploma in Science (Physics)
- Gujarat University, Ahmedabad, Gujarat, India
  - $\rightarrow$  M.Sc. Physics (1993)
  - $\rightarrow$  B.Sc. Physics (1990)

# WORK/RESEARCH EXPERIENCE

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

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- $\rightarrow$  [Graduate] Research Associate (May 2004 − Dec 2004)  $\rightarrow$  [Graduate] Research Assistant (May 2003 − Dec 2003)
- University of Western Australia, Perth, WA, Australia
  - $\rightarrow$  Academic Visitor (Mar 1998 Oct 1998)
- University of Queensland, Brisbane, QLD, Australia
  - $\rightarrow$  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 537 publications

## Refereed

- $\rightarrow$  Number of publications: **296**
- $\rightarrow$  Number of publications as  $1^{st}/2^{nd}/3^{rd}$  author: 9/4/4
- $\rightarrow$  Citations (from the NASA ADS Database) : 25,500+
- $\rightarrow h$ -index: 80 [80 papers with  $\geq$  80 citations]
- $\rightarrow$  5 papers  $\geq$  500 citations; 19 papers  $\geq$  250 citations; 64 papers  $\geq$  100 citations

#### Non-Refereed

- $\rightarrow$  Number of publications: **241**
- $\rightarrow$  Number of publications as  $1^{\text{st}}/2^{\text{nd}}/3^{\text{rd}}$  author: 42/5/12

#### 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:
  - ightarrow The Astrophysical Journal (ApJ)
  - ightarrow The Astrophysical Journal Letters (ApJL)
  - ightarrow Monthly Notices of the Royal Astronomical Society (MNRAS)
  - ightarrow Astronomy & Astrophysics (A&A)
- Panelist NASA and NSF Panels:
  - ightarrow NASA Astrophysics Theory Program / ATP (2021, 2023)

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ightarrow NASA Citizen Science Seed Funding Program / CSSFP (2022)

ightarrow NASA Astrophysics Data Analysis Program / ADAP
                        (2011, 2013, 2016, 2017, 2018)
• Reviewer
                   NASA Postdoctoral Program / NPP proposal review
                   (2017 - 2025)

    Reviewer

                   Swiss National Science Foundation / SNSF proposal review (2022)
• Reviewer
                   NASA Graduate Research Fellowships proposal review

ightarrow Future Investigators in NASA Earth and Space Science and
                        Technology / FINESST (2019)
                     \rightarrow NASA Earth and Space Science Fellowship / NESSF (2018)
• Chair
                   For Oral sessions at various meetings:
                    \rightarrow '#243: Surveys, Analysis, and Results IV' at 245<sup>th</sup> AAS Meeting (2025)

ightarrow '#3a: The CGM-IGM and SF activity' at STScI Spring Symposium (2024)
                    \rightarrow '#213: Galaxies I' at 236^{th} Virtual AAS Meeting (2020)
                    \rightarrow '#228: Supernovae, AGN & Galaxies' at 234^{th} AAS Meeting (2019)

ightarrow '#201: Galaxy Evolution' at 232^{nd} AAS Meeting (2018)
                   Rodger Doxsey Travel Prize for 7 Winter AAS meetings

    Judge

                   (2016 - 2018, 2020 - 2023)

ightarrow Doxsey Prize Program Task Force Member (2021)
• Judge
                   Chambliss Astronomy Achievement Student Awards at 11 AAS meetings
                   (2011 - 2013, 2018 - 2020, 2022 - 2025)

    Member

                   STScI's Internal Committees/Groups/Meetings
                     \rightarrow STScI AAS Agent (2024 -- present)

ightarrow STScI JWST DDT Team (2024 -- present)

ightarrow STScI Postdoctoral Fellow Hiring Coordination Committee (2021 -- present)
                     \rightarrow Roman-Rubin Working Group (2020 -- present)

ightarrow STScI-wide Slitless Spectroscopy Group -- Lead (2019 -- present)

ightarrow HST Grism Working Group -- Lead/Co-lead (2022 -- present)

ightarrow STScI Ambassador (2024)

ightarrow 'STScI Scientists' Representative (2020 -- 2024)
                     \rightarrow STScI Postdoctoral Fellowship Selection Committee (2021 -- 2022)
                     → STScI/INS 'Evergreen Campaign' TechStaff Hiring Committee (2021 -- 2022)

ightarrow STScI Panel Support Work for HST and JWST TAC Meetings

ightarrow HST Cycle 32 (Apr-Jun 2024) plus RGM and Budget reviews

ightarrow HST Cycle 30 (Jun 2022)
                         \rightarrow HST Cycle 29 (Jun 2021)

ightarrow JWST Cycle 1 (Feb 2021)

ightarrow HST Cycle 28 (May 2020)

ightarrow STScI/INS Diversity, Culture, and Respect Working Group (DCRWG)
                         \rightarrow Member (2019 -- 2022)
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→ NSF Astronomy and Astrophysics Research Grants / AAG (2021, 2023)

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#### ightarrow 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):
	<ul> <li>→ SOC: 'Recipes to Regulate Star Formation at All Scales: From the Nea Universe to the First Galaxies' @ STScI, Apr 2024</li> <li>→ Co-Chair SOC/LOC: 'Multi-object Spectroscopy for Statistical Measures of Galaxy Evolution' @ STScI (Virtual), May 2021</li> <li>→ Deputy-Chair SOC/LOC: 'Galaxy Formation and Evolution in the Era of the Nancy Grace Roman Space Telescope' @ STScI (Virtual), Oct 2020</li> <li>→ LOC: 'Inclusive Astronomy 2 (IA2)' @ STScI, Oct 2019</li> </ul>
• 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 $\boxed{13}$ 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 $(2013-2015)$
• 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	$\operatorname{MSE}$ — 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 Developmen 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/ACHIEVEME

Apr 2025 AURA Achievement Award — Hubble Reduced Gyro Mode Team Award
 Mar 2025 STScI BRAVO — for monitoring and answering help desk tickets promptly and professionally and for ensuring the HST Cycle 32 Bridge proposal process was successful!
 Jan 2025 NASA JWST press release ID:2025-101 (CEERS/LRD Science Team).

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- Nov 2024 STScI BRAVO for rapidly preparing, publishing, and advertising an ACS STAN in October 2024.
- Nov 2024 STScI BRAVO for being a Team Player and representing STScI at the Towson University Career Fair.
- Oct 2024 NJU-China / CEA-France / Portsmouth-UK press release (Science Team, Lu+ 2024).
- May 2024 STScI BRAVO for watching over and answering help desk tickets leading up to the Cycle 32 HST Phase I proposal deadline.
- 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 (CEERS 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 (UVCANDELS 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.

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- 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:
  - ightarrow Recommendations from Inclusive Astronomy 2 conference (2019-2020)
  - ightarrow 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 (and UCD) press release eso1833 (Science Team, Cucciati+2018).
- 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, Amorin+ 2017).
- 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).

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- $\bullet$  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**).

- 2021 2026 HST Cycle 29 Legacy Archival Program (AR 16621: **Hathi Grant Co-I: Proposal Co-I:** \$18,000)
- 2024 2026 JWST Cycle 3 Legacy Archival Program (AR 4695: **Hathi Grant Co-I: Proposal Co-I:** \$2,500)
- 2020 2025 HST Cycle 28 + 29 ACS/WFC3 Imaging Program (GO 16252 + GO 16793: Hathi Grant PI: Proposal Co-I: \$23,225)
- 2024 STScI The Director's Discretionary Research Fund (DDRF) Travel Grant (Hathi Grant PI: \$1,650)
- 2019 2024 HST Cycle 26 UVCANDELS Program (GO 15647: **Hathi Grant Co-I: Proposal Co-I:** \$17,000)
- 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)
- 2022 2023 JWST Cycle 1 Archival Program (AR 2687: Hathi Proposal Co-I)
- 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)

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- 2014 City of Marseille: Scholarship/Grant for Foreign Researchers (**Hathi Grant PI:** €2,000)
- 2013 AAS International Travel Grant (Hathi Grant PI: \$2,700)
- $\bullet$  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

- $\rightarrow$  Observing Experience at: HST, JWST, Palomar, Magellan, Gemini, MMT
- → Data Reduced/Analyzed for: HST, JWST, Gemini, MMT, Subaru, CFHT, UKIRT, VLT
- $\rightarrow$  Space Telescopes
  - 2025 2027 Co-I on a JWST/NIRCam, NIRSpec, NIRISS proposal (PI Fujimoto: GO 6882); for high redshift galaxies (z > 6) from Cluster fields. (243.4 + 49.0 hours)

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- 2025 2026 Co-I on a JWST/NIRCam medium-band imaging proposal (PI Davis: GO 8559); for high redshift galaxies (z > 2) in the EGS/CEERS field. (62.8 hours)
- 2025 2026 Co-I on a JWST/NIRSpec spectroscopy proposal (PI Simons: GO 8410); for high redshift galaxies (1 < z > 10) in the EGS/CEERS field. (65.4 hours)
- 2025 2026 Co-I on a JWST/MIRI spectroscopy proposal (PI Mitsuhashi: GO 7078); for the highest redshift AGN ( $z \sim 12$ ) from GLASS fields. (49.1 hours)
- 2024 2025 Co-I on a JWST/NIRSpec spectroscopy proposal (PI Kocevski: GO 5718); for high redshift faint, broad-line AGN (z > 5) from CEERS. (20.5 hours)
- 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 a HST/ACS imaging calibration proposal (CAL/ACS 17651); Observations of 47 Tuc and Omega Cen globular clusters. (6 orbits)
- 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)
- $\bullet$  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 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)

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- 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)

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- 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. (Multicycle 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  $z \sim 0.2$ –0.4. (2003A  $\rightarrow$  2 nights, 2003B  $\rightarrow$  2 nights)

#### SCIENCE COLLABORATIONS AND CONTRIBUTIONS

- Teammate Co-I and/or a Collaborator on large survey teams.
  - $\rightarrow$  JWST Survey The CANDELS-Area Prism Epoch of Reionization Survey (CAPERS)
    - ► My contributions: CoI, Science analysis, Redshift catalogs Follow-up observations
  - $\rightarrow$  JWST Survey The Next Generation Deep Extragalactic Exploratory Public Survey (NGDEEP) Survey
    - ► My contributions: Collaborator, Science analysis Redshift catalogs, Follow-up observations

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- $\rightarrow$  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
- Teammate Co-I and/or a Collaborator on large survey teams.

## Completed Surveys

- → HST Survey UV Imaging of the CANDELS Fields (UVCANDELS)
- → ALMA Survey The ALMA Large Program to INvestigate C+ at Early times (ALPINE)
- → VLT Survey VIMOS Survey of the CANDELS fields (VANDELS)
- → HST Survey Faint Infrared Grism Survey (FIGS)
- → VLT Survey VIMOS Ultra Deep Survey (VUDS)
- $\rightarrow$  HST Survey Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey (CANDELS)
- → HST Survey WFC3 Infrared Spectroscopic Parallel Survey (WISPS)
- → HST Survey WFC3 Early Release Science (ERS)
- → HST Survey Probing Evolution And Reionization Spectroscopically (PEARS)
- $\rightarrow$  HST Survey Hubble Infrared Pure Parallel Imaging Extragalactic Survey (HIPPIES)

## 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
  - $\rightarrow$  Teaching Associate (Jan 2005 Apr 2005)

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Spring  $\rightarrow$  Physics 113/114  $\rightarrow$  General Physics Lab I/II

→ Teaching Associate (Jan 2004 – Apr 2004)

Spring  $\rightarrow$  Physics 101  $\rightarrow$  Introduction to Physics

 $\rightarrow$  Teaching Assistant (Jan 2003 – Apr 2003)

 ${\rm Spring} \to {\rm Physics}~113 \to {\rm General~Physics~Lab~I}$ 

→ Teaching Assistant (Jan 2002 – Dec 2002)

 $Spring \rightarrow Physics 101/114 \rightarrow Introduction to Physics/General Physics Lab II$ 

Summer I  $\rightarrow$  Physics 113  $\rightarrow$  General Physics Lab I

Summer II  $\rightarrow$  Physics 131/132  $\rightarrow$  University Physics II Rec/Lab

 $Fall \rightarrow Physics 121 \rightarrow University Physics I$ 

 $\rightarrow$  Teaching Assistant (Jan 2001 – Dec 2001)

Spring  $\rightarrow$  Astronomy 114  $\rightarrow$  Astronomy Lab II

Summer I  $\rightarrow$  Physics 121/122  $\rightarrow$  University Physics I Rec/Lab

Summer II  $\rightarrow$  Astronomy 114  $\rightarrow$  Astronomy Lab II

Fall  $\rightarrow$  Astronomy 111/Physics 101  $\rightarrow$  Introduction to Astronomy/Physics

 $\rightarrow$  Teaching Assistant (Jan 2000 – Dec 2000)

Spring  $\rightarrow$  Astronomy 114  $\rightarrow$  Astronomy Lab II

 $Fall \rightarrow Astronomy 113 \rightarrow Astronomy Lab I$ 

→ Teaching Assistant (Jan 1999 – Dec 1999)

Spring  $\rightarrow$  Physics 113  $\rightarrow$  General Physics Lab I

 $Fall \rightarrow Physics 111 \rightarrow General Physics I$ 

- University of Western Australia, Perth, WA, Australia
  - $\rightarrow$  Lab Demonstrator (Mar 1998 Jul 1998)
- University of Queensland, Brisbane, QLD, Australia
  - $\rightarrow$  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 LATEX, EMACS, Vi, Word/Pages, Excel/Numbers

• Image Processing DS9, IDL, Python, Gimp

• Presentation LATEX, Powerpoint/Keynote, HTML

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## PUBLICATIONS (REFEREED & NON-REFEREED)

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

[ Non-ADS/non-arXiv presentations or white papers]

† arXiv only publications

# First, Second, & Third-Author Publications (1000+ citations)

[76] "The JWST North Ecliptic Pole Time Domain Field (NEP-TDF): Results based on Multi-wavelength Observations, including HST and JWST Data"
Hathi, N.; Jansen, R.; O'Brien, R.; et al.

 $\overline{2025}$ ,  $\overline{245}^{th}$  AAS Meeting (Abstract 158.09).

- [75] "Cosmic Evolution Early Release Science Survey (CEERS): Multi-classing Galactic Dwarf Stars in the deep JWST/NIRCam"
  Holwerda, B.; Hsu, C-C.; Hathi, N.; et al. 2024, MNRAS, 529, 1067 (15pp)
- [74] "Imaging Spectropolarimetry A New Observing Mode on the Hubble Space Telescope's Advanced Camera for Surveys"

  Hathi, N. P.; Hines, D. C; Cohen, Y.; et al.

  2024, RNAAS, 8, 56 (arXiv:2402.16967)
- [73] "A New Imaging Spectropolarimetry Capability using the Slitless Spectroscopy Mode on the HST/ACS Instrument"

  Hathi, N.; Hines, D.; Cohen, Y.; et al.

  2024, 243<sup>rd</sup> AAS Meeting (Abstract 360.29).
- [72] "The JWST North Ecliptic Pole Time Domain Field: Results from HST and the first year of JWST observations" Jansen, R.; <u>Hathi, N.</u>; O'Brien, R.; et al. 2024, 243<sup>rd</sup> AAS Meeting (Abstract 307.17).
- [71] "ACS Data Handbook v. 13.0"
   Hathi, N. P.; et al.
   2024, ACS Data Handbook, Version 13.0, (Baltimore: STScI).
- ‡ [70] "The JWST North Ecliptic Pole Time Domain Field (NEP-TDF): Results from the First-Year of JWST data"

  Hathi, N.; Jansen, R.; O'Brien, R.; et al.

2023, Zenodo (Poster), https://doi.org/10.5281/zenodo.8352166

- [69] "Imaging Spectropolarimetry A New Observing Mode on the HST/ACS Instrument" <u>Hathi, N.</u>; Hines, D.; Cohen, Y.; et al. 2023, 242<sup>nd</sup> AAS Meeting (Abstract 230.07).
- [68] "PIE+: Identifying LyC leakers through improved photometry of the PIE survey fields" Beckett, A.; Citro, A.; Hathi, N. P.; et al. 2023, HST Cycle 31 Proposal (ID #17518)

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- [67] "ACS CCD Stability Monitor" <u>Hathi, N.</u>; Anderson, J.; Avila, R.; et al. <u>2023</u>, HST Cycle 31 Proposal (ID #17331).
- [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" <u>Hathi, N.</u>; Anderson, J.; Avila, R.; et al. <u>2022</u>, 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.; <u>Hathi, N.</u>; Grogin, N. A.
  2022, 240<sup>th</sup> AAS Meeting (Abstract 206.02).
- [63] "ACS Internal Flat Fields" Cohen, Y.; Grogin, N.; <u>Hathi, N. P.</u> 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.; <u>Hathi, N. P.</u>; Grogin, N. A. 2019, Instrument Science Report ACS 2019-07
  - [57] "SBC Absolute Flux Calibration" Avila, R. J.; Bohlin, R.; <u>Hathi, N.</u>; et al. 2019, Instrument Science Report ACS 2019-05
  - [56] "ACS CCD Stability Monitor" <u>Hathi, N.</u>; Grogin, N.; Bellini, A.; et al. <u>2019</u>, HST Cycle 27 Proposal (ID #15764).

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- [55] "Trace and Wavelength Calibrations of the HST/ACS G800L Grism" <u>Hathi, N. P.</u>; 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" <u>Hathi, N.</u>; Pirzkal, N.; Grogin, N.; Chiaberge, M. <u>2019</u>, 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.; et al.

    2018, 232<sup>nd</sup> AAS Meeting (Abstract 119.05).
  - [51] "The VIMOS Ultra Deep Survey (VUDS): Rest-frame UV Spectroscopy for ~10000 Star-forming Galaxies at z ~ 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.; <u>Hathi, N.</u>; Brown, T. M. 2017, Instrument Science Report ACS 2017-12
  - [49] "ACS/WFC Grism"

    <u>Hathi, N.</u>; Pirzkal, N.; Grogin, N.; Chiaberge, M.

    <u>2017</u>, HST Cycle 25 Proposal (ID #15401).
- ‡ [48] "Exploring the Nature of Lyman Alpha Galaxies at z ~ 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.

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- [44] "The evolving SFR-M $_*$  relation and SSFR since z  $\sim$  5 from the VUDS spectroscopic survey" Tasca, L. A. M.; Le Fèvre, O.; <u>Hathi, N. P.</u>; 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,  $29^{th}$  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.
- 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.

‡ [41] "The VIMOS Ultra Deep Survey: Lyα Emission and Stellar Populations of Star-Forming

- ‡ [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" <u>Hathi, N. P.</u>; 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" <u>Hathi, N. P.</u>; 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.; <u>Hathi, N. P.</u>; WISP Team 2013, 221<sup>st</sup> AAS Meeting (Abstract 147.40).

 $\text{Hathi} \longrightarrow \text{May } 2025$  17 of 62

- [34] "Near-Infrared Survey of the GOODS-North Field: Search for Luminous Galaxy Candidates at z ≥ 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.  $2012, 219^{th}$  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  $\mu$ m Wavelength" Windhorst, R. A.; Cohen, S. H.; <u>Hathi, N. P.</u>; et al. 2011, ApJS, 193, 27 (33pp)
- ‡ [29] "Lyman Break Galaxies at z ~ 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.; <u>Hathi, N.</u>; 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.; <u>Hathi, N. P.</u>; et al. 2011,  $217^{th}$  AAS Meeting (Abstract 335.18).

- [26] "Near-infrared Imaging and z = 7 Galaxy Candidates in the GOODS-North Field" <u>Hathi, N. P.</u>; Mobasher, B.; Capak, P.  $2011, 217^{th}$  AAS Meeting (Abstract 128.06).
- ‡ [25] "UV-dropout Galaxies in the GOODS-South Field from WFC3 Early Release Science Observations"

  Hathi N. B. Bran, B. Cohan, S. et al.

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"

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Yan, H.; Windhorst, R. A.; <u>Hathi, N. P.</u>; et al. 2010, RA&A, 10, 867-904
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[23] "UV-dropout Galaxies in the GOODS-South Field from WFC3 Early Release Science Observations"

<u>Hathi, N. P.</u>; Ryan, R. E., Jr.; Cohen, S. H.; et al.  $\overline{2010}$ , ApJ, 720, 1708-1716

[22] "HST/WFC3 Early Release Science in the GOODS-South Field: UV-dropout Galaxies at z=2-3"

<u>Hathi, N. P.</u>; Ryan, R. E. Jr.; Cohen, S. H.; et al.  $2010, 215^{th}$  AAS Meeting (Abstract 463.37).

[21] "The High-z Universe as Viewed by WFC3" Yan, H.; Windhorst, R.; <u>Hathi, N.</u>; et al. 2010, 215<sup>th</sup> AAS Meeting (Abstract 463.04).

[20] "Stellar Populations of Late-Type Bulges at z ≈ 1 in the Hubble Ultra Deep Field" <u>Hathi, N. P.</u>; Ferreras, I.; Pasquali, A.; et al. <u>2009</u>, 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.; <u>Hathi, N. P.</u>; et al. 2009,  $213^{th}$  AAS Meeting (Abstract 424.26).

[18] "High Redshift Galaxies in the Hubble Ultra Deep Field" <u>Hathi, N. P.</u> 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.;  $\underline{\text{Hathi, N. P.}}$ ; 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.; <u>Hathi, N. P.</u>; Windhorst, R. A. 2008, ApJ, 675, 136-145

[14] "Starburst Intensity Limit of Galaxies at  $z \simeq 5-6$ " <u>Hathi, N. P.</u>; Malhotra, S.; Rhoads, J. E. 2008, ApJ, 673, 686-693

 $\text{Hathi} \longrightarrow \text{May } 2025$  19 of 62

- [13] "Surface Brightness Profiles of Composite Images of Compact Galaxies at z ≈ 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.; <u>Hathi, N. P.</u>; Cohen, S. H.; et al. 2008, AdSpR, 41, 1965-1971
- [11] "HUDF Galaxies at z ≈ 4-6: Structural and Physical Properties" <u>Hathi, N. P.</u> 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 ≈ 1 in the HUDF: Probing the Dwarf Population" Ryan, R. E., Jr.; <u>Hathi, N. P.</u>; Cohen, S. H.; et al. 2007, ApJ, 668, 839-845
- ‡ [8] "Surface Brightness Profiles of Composite Images of Compact Galaxies at z ~ 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" <u>Hathi, N. P.</u>; Ferreras, I.; Pasquali, A.; et al. 2007,  $210^{th}$  AAS Meeting (Abstract 008.06).
  - [6] "Surface Brightness Properties of z ≈ 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.; <u>Hathi, N. P.</u>; 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"

  <u>Hathi, N. P.</u>; 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)

 $\operatorname{Hathi} \longrightarrow \operatorname{May} 2025$  20 of 62

† [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)

 $\operatorname{Hathi} \longrightarrow \operatorname{May} 2025$  21 of 62

## Other Co-Author Publications

 $\dagger$ [461] "Broad-Line AGN at 3.5 < z < 6: The Black Hole Mass Function and a Connection with Little Red Dots"

Taylor, A.; et al.

2025, ApJ, in press (arXiv:2409.06772)

 $\dagger$  [460] "Evolution of the UV slope of galaxies at cosmic morning (z > 4): the properties of extremely blue galaxies"

Dottorini, D.; et al.

2025, A&A, in press (arXiv:2412.01623)

†[459] "Galaxy Mergers in the Epoch of Reionization I: A JWST Study of Pair Fractions, Merger Rates, and Mass Accretion at  $z \simeq 4.5-11.5$ "

Duan, Q.; et al.

2025, ApJ, in press (arXiv:2407.09472)

†[458] "Gas properties as a function of environment in the proto-supercluster Hyperion at  $z \simeq 4.5$ " Gururajan, G.; et al.

2025, A&A, in press (arXiv:2504.08894)

†[457] "Galaxy Rest-Frame UV Colors at  $z \simeq 2-4$  with HST UVCANDELS" Morales, A.; et al. 2025, ApJ, submitted (arXiv:2405.20901)

†[456] "The Abundance and Properties of Barred Galaxies out to z ~ 4 Using JWST CEERS Data" Guo, Y.; et al. 2025, ApJ, submitted (arXiv:2409.06100)

†[455] "Compact dust-obscured star-formation and the origin of the galaxy bimodality" Tarrasse, M.; et al. 2025, A&A, in press (arXiv:2411.00279)

†[454] "The HST-Hyperion Survey: Grism Observations of a  $z \simeq 2.5$  Proto-Supercluster" Forrest, B.; et al. 2025, ApJ, in press (arXiv:2503.04884)

 $\dagger$ [453] "The Rise of Faint, Red AGN at z  $\simeq$  4: A Sample of Little Red Dots in the JWST Extragalactic Legacy Fields"

Kocevski, D.; et al.

2025, ApJ, in press (arXiv:2404.03576)

[452] "EPOCHS Paper X: Environmental effects on Galaxy Formation and Protocluster Galaxy candidates at 4.5 < z < 10 from JWST observations" Li, Q.; et al. 2025, MNRAS, 539, 1796 (24pp)

[451] "Decent step formation in 0.5 < 7 < 1.5 swigger

[451] "Recent star formation in 0.5 < z < 1.5 quiescent galaxies" Rutkowski, M.; et al. 2025, ApJ, 983, L32 (9pp)

 $\operatorname{Hathi} \longrightarrow \operatorname{May} 2025$  22 of 62

[450] "The Cosmic Evolution Early Release Science Survey (CEERS)" Finkelstein, S.; et al. 2025, ApJ, 983, L4 (29pp)

[449] "EPOCHS XI: The Structure and Morphology of Galaxies in the Epoch of Reionization to z=12.5"

Westcott, L.; et al. 2025, ApJ, 983, 121 (25pp)

- [448] "EPOCHS I. The Discovery and Star Forming Properties of Galaxies in the Epoch of Reionization at 6.5 < z < 18 with PEARLS, JADES GTO, and Public JWST data" Conselice, C.; et al. 2025, ApJ, 983, 30 (28pp)</p>
- [447] "SPAM: Star-formation from Photometry through the Addition of Medium-bands" Davis, K.; et al. 2025, JWST Cycle 4 Proposal (ID #8559).
- [446] "A Census of Galaxy Kinematics and Outflows to  $z \sim 7$ " Simons, R.; et al. 2025, JWST Cycle 4 Proposal (ID #8410).
- [445] "On the search for a primeval black hole in a spectroscopically-confirmed galaxy at z = 12.3" Mitsuhashi, I.; et al. 2025, JWST Cycle 4 Proposal (ID #7078).
- [444] "Vast Exploration for Nascent, Unexplored Sources (VENUS)" Fujimoto, S.; et al. 2025, JWST Cycle 4 Proposal (ID #6882).
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