Thomas **Connor**

Astrophysicist · Center for Astrophysics | Harvard & Smithsonian

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Experience

Center for Astrophysics | Harvard & Smithsonian — *Cambridge, Massachusetts*

Astrophysicist, Chandra Director's Office — *Aug. 2022 - Present*

NASA Jet Propulsion Laboratory — *Pasadena, California*

NPP Fellow — *Oct. 2019 - Aug. 2022*

Observatories of the Carnegie Institution for Science — *Pasadena, California*

Postdoctoral Fellow — *Sept. 2016 - Sept. 2019*

Education

Michigan State University — *East Lansing, Michigan*

PhD, Astronomy & Astrophysics — *Awarded Aug. 2016*

Advisor: Megan Donahue

Thesis: "*Multi-Wavelength Observations of Galaxy Clusters: Population Evolution and Scaling Relations for Intermediate-Redshift Clusters*"

MS, Astronomy & Astrophysics — *Awarded May 2013*

Case Western Reserve University — *Cleveland, Ohio*

BS, Astronomy — *Awarded May 2011*

Research

High-Redshift Quasars — Discovery and Analysis of $z > 5$ Quasars

Galaxy Clusters — Characterizing the Evolutionary Pathways of Cluster Members

The Cosmic Web — X-Ray Observations of Diffuse Cosmic Structures

Multiwavelength Synergy — Leveraging Insights Across All Observational Domains

My portfolio consists of 69 refereed publications, including 14 first-author publications, with an h-index of 26. I have been directly awarded over $875,000, with accepted PI'ed observations with *Chandra*, *XMM-Newton*, the *Hubble Space Telescope*, *NuSTAR*, the Jansky Very Large Array, Gemini, both Magellans, and the Palomar Hale Telescope.

Observations Awarded

Only observations for which I was the PI, US PI, and/or Observer are listed.

Chandra	**PI: #27700055** 195 ks to confirm a $z > 6$ quasar–companion system	*2025*
	Observer: #27700099 750 ks to map a high-z quasar overdensity	*2025*
	PI: #26700321 40 ks to trace $z{\sim}6.2$ quasar variability	*2024*
	PI: #25700049 333 ks to study a strongly-lensed quasar	*2023*
	PI: #24700083 708 ks to find jets around high-z quasars	*2022*
	PI: #23700223 82 ks to observe a high-z quasar and companion	*2021*
	PI: #23800222 92 ks to observe an AGN-rich cluster at $z > 1$	*2021*
XMM-Newton	**PI: #094284** 257 ks Fulfill Programme to explore high-z radio-loud quasars	*2023*
	PI: #086378 260 ks Fulfill Programme to explore high-z radio-loud quasars	*2022*
	PI: #090286 Up to 195 ks to build a sample of double-lensed quasar fluxes	*2021*
	PI: #086378 186 ks to study a high-z radio-bright quasar	*2019*
Hubble Space Telescope	**PI: #15198** 5 orbits with the Cosmic Origins Spectrograph	*2017*
JWST	**US PI: #03084** 14.0 primary hours	*Cycle 2*
NuSTAR	**PI: #8081** 210 ks with 50 ks *XMM* of a luminous lensed $z > 3$ quasar	*2022*
	PI: #7291 225 ks targeting a high-z blazar candidate	*2021*
Very Large Array	**Cost PI/Chandra Observer: #23A-179** 11.0 hours and 45 ks of Chandra	*2022*
	PI: #22A-319 6.00 hours extending the depth of #21B-151	*2022*
	PI: #21B-151 6.00 hours to search for a radio signature of a high-z X-ray jet	*2021*
Magellan Telescopes	**PI:** 38.5 Nights Awarded	*2017-2024*
Gemini Observatory	**PI:** 1.0 hours	*2020*
Palomar Hale 200 Inch	**PI:** 13 Nights Awarded	*2020-2022*
Irénée du Pont Telescope	**PI:** 15 Nights Awarded	*2017-2020*

Conference Organization

25 Years of Science with Chandra Symposium *Boston, MA*
Co-Chair, LOC *2024*

High-Resolution X-ray Spectroscopy: A Chandra Workshop *Cambridge, MA*
Chair, LOC
Ex-Officio, SOC *2023*

Science with the Line Emission Mapper: From Planets to Galaxies and Beyond *Cambridge, MA*
Chair, LOC *2023*

Ten Years of High-Energy Universe in Focus: NuSTAR 2022 *Cagliari, Italy*
Member, LOC *2022*

Professional Organizations

American Astronomical Society Full Member
AAS HEAD Member

Publications

Primary (First or Second Author)

1 **Marcotulli & Connor et al.** *2025, ApJL, 927, 6*
"NuSTAR observations of a varying-flux quasar in the Epoch of Reionization"

2 **Connor et al.** *2024, Univ, 10, 227*
"Uncovering the First AGN Jets with AXIS"

3 **Connor et al.** *2022, ApJ, 927, 45*
"Gaia GraL: Gaia DR2 Gravitational Lens Systems. VII. XMM-Newton Observations of Lensed Quasars"

4 **Connor et al.** *2021b, ApJL, 922, 24*
"X-Ray Evidence Against the Hypothesis that the Hyper-luminous $z = 6.3$ Quasar J0100+2802 is Lensed"

5 **Connor et al.** *2021a, ApJ, 911, 120*
"Enhanced X-ray Emission from the Most Radio-Powerful Quasar in the Universe's First Billion Years"

6 **Connor et al.** *2020, ApJ, 900, 189*
"X-ray Observations of a [C II]-bright, z=6.59 Quasar/Companion System"

7 **Connor et al.** *2019d, ApJ, 887, 171*
"X-ray Observations of a $z \sim 6.2$ Quasar/Galaxy Merger"

8 **Connor et al.** *2019c, ApJL, 884, 20*
"COS Observations of the Cosmic Web: A Search for the Cooler Components of a Hot, X-ray Identified Filament"

9 **Connor et al.** *2019b, ApJ, 878, 66*
"Assembling a RELIC at Redshift 1: Spectroscopic Observations of Galaxies in the RELICS Cluster SPT-CLJ0615−5746"

10 **Connor et al.** *2019a, ApJ, 875, 16*
"On the Origin of the Scatter in the Red Sequence: An Analysis of Four CLASH Clusters"

11 **Connor et al.** *2018, ApJ, 867, 25*
"Wide-Field Optical Spectroscopy of Abell 133: A Search for Filaments Reported in X-ray Observations"

12 **Bañados, Connor et al.** *2018, ApJL, 856, 25*
"Chandra X-Rays from the Redshift 7.54 Quasar ULAS J1342+0928"

13 **Connor et al.** *2017, ApJ, 848, 37*
"Crowded Field Galaxy Photometry: Precision Colors in the CLASH Clusters"

14 **Donahue, Connor et al.** *2017, ApJ, 835, 216*
"Observations of Lyα and O VI: Signatures of Cooling and Star Formation in a Massive Central Cluster Galaxy"

15 **Donahue, Connor et al.** *2015, ApJ, 805, 177*
"Ultraviolet Morphology and Unobscured UV Star Formation Rates of CLASH Brightest Cluster Galaxies"

16 **Connor et al.** *2014, ApJ, 794, 48*
"Scaling Relations and X-Ray Properties of Moderate-luminosity Galaxy Clusters from $0.3 < z < 0.6$ with XMM-Newton"

Secondary Papers

17 **Ighina, L., et al. (Connor, T: 3/22)** *2025, ApJL, 990, L56*
"X-Ray Investigation of Possible Super-Eddington Accretion in a Radio-loud Quasar at z = 6.13."

18 **Ighina, L., et al. (Connor, T: 9/24)** *2025, A&A, 698, A158*
"High-z radio quasars in RACS: I. Selection, identification, and multi-wavelength properties."

19 **Rojas-Ruiz, S., et al. (Connor, T: 10/11)** *2025, ApJ, 985, 34*
"First Measurements of Black Hole Accretion and Radio-jet Timescales in a Young Quasar at the Edge of Reionization."

20 **Walter, F., et al. (Connor, T: 5/14)** *2025, ApJL, 983, L8*
"Kiloparsec-scale Alignment of a Radio Jet with Cool Gas and Dust in a z ∼ 6 Quasar."

21 **Muhibullah, M., et al. (Connor, T: 6/13)** *2025, ApJ, 983, 47*
"The Massive and Distant Clusters of WISE Survey. XII. Exploring X-Ray Active Galactic Nuclei in Dynamically Active Massive Galaxy Clusters at z ∼ 1."

22 **Petit, Q., et al. (Connor, T: 6/24)** *2025, A&A, 696, A51*
"Gaia GraL: Gaia gravitational lens systems: IX. Using XGBoost to explore the Gaia Focused Product Release GravLens catalogue."

23 **Bañados, E., et al. (Connor, T: 3/24)** *2025, NatAs, 9, 293*
"A blazar in the epoch of reionization."

24 **Mazzucchelli, C., et al. (Connor, T: 6/16)** *2025, A&A, 694, A171*
"The host galaxies of radio-loud quasars at z > 5 with ALMA."

25 **Bañados, E., et al. (Connor, T: 6/10)** *2024, ApJL, 977, L46*
"[C II] Properties and Far-infrared Variability of a z = 7 Blazar."

26 **Thongkham, K., et al. (Connor, T: 8/11)** *2024, ApJ, 976, 186*
"The Massive and Distant Clusters of WISE Survey 2: Second Data Release."

27 **Trudeau, A., et al. (Connor, T: 7/11)** *2024, ApJ, 972, 27*
"The Massive and Distant Clusters of WISE Survey 2: A Stacking Analysis Investigating the Evolution of Star Formation Rates and Stellar Masses in Groups and Clusters."

28 **Decarli, R., et al. (Connor, T: 19/41)** *2024, A&A, 689, A219*
"A quasar-galaxy merger at z ∼ 6.2: Rapid host growth via the accretion of two massive satellite galaxies."

29 **Greenwell, C. L., et al. (Connor, T: 14/35)** *2024, ApJS, 273, 20*
"The NuSTAR Serendipitous Survey: The 80 Month Catalog and Source Properties of the High-energy Emitting Active Galactic Nucleus and Quasar Population."

30 **Thongkham, K. et al. (Connor, T: 9/10)** *2024, ApJ, 967, 123*
"The Massive and Distant Clusters of WISE Survey 2: Equatorial First Data Release."

31 **Saade, M. L. et al. (Connor, T: 4/15)** *2024, ApJ, 966, 104*
"NuSTAR Observations of Candidate Subparsec Binary Supermassive Black Holes."

32 **Loiacono, F. et al. (Connor, T: 15/34)** *2024, A&A, 685, A121*
"A quasar-galaxy merger at z ∼ 6.2: Black hole mass and quasar properties from the NIRSpec spectrum."

33 **Kirkpatrick, J. D. et al. (Connor, T: 66/86)** *2024, ApJS, 271, 55*
"The Initial Mass Function Based on the Full-sky 20 pc Census of ∼3600 Stars and Brown Dwarfs."

34 **Dobie, D. et al. (Connor, T: 13/29)** *2024, MNRAS, 528, 5880*
"Gaia GraL: Gaia DR2 gravitational lens systems - VIII. A radio census of lensed systems."

35 **Zou, S. et al. (Connor, T: 22/30)** *2024, ApJL, 963, L28*
"A SPectroscopic survey of biased halos In the Reionization Era (ASPIRE): Impact of Galaxies on the Circumgalactic Medium Metal Enrichment at z > 6 Using the JWST and VLT."

36 **Omoruyi, O. et al. (Connor, T: 19/22)** *2024, ApJ, 963, 1*

""Beads-on-a-string" Star Formation Tied to One of the Most Powerful Active Galactic Nucleus Outbursts Observed in a Cool-core Galaxy Cluster."

37 **Yang, J. et al. (Connor, T: 22/56)** *2023, ApJL, 951, L5*

"A SPectroscopic Survey of Biased Halos in the Reionization Era (ASPIRE): A First Look at the Rest-frame Optical Spectra of z > 6.5 Quasars Using JWST."

38 **Wang, F. et al. (Connor, T: 23/59)** *2023, ApJL, 951, L4*

"A SPectroscopic Survey of Biased Halos in the Reionization Era (ASPIRE): JWST Reveals a Filamentary Structure around a z = 6.61 Quasar."

39 **Bañados, E. et al. (Connor, T: 4/23)** *2023, ApJS, 265, 29*

"The Pan-STARRS1 z > 5.6 Quasar Survey. II. Discovery of 55 Quasars at 5.6 < z < 6.5."

40 **Schindler, J.-T. et al. (Connor, T: 3/12)** *2023, ApJ, 943, 67*

"The Pan-STARRS1 z > 5.6 Quasar Survey. III. The z $\approx$ 6 Quasar Luminosity Function."

41 **Koss, M. J. et al. (Connor, T: 14/26)** *2023, ApJL, 942, L24*

"UGC 4211: A Confirmed Dual Active Galactic Nucleus in the Local Universe at 230 pc Nuclear Separation."

42 **Decker, B. et al. (Connor, T: 4/17)** *2022, ApJ, 936, 71*

"MaDCoWS XI: Stellar Mass Fractions and Luminosity Functions of MaDCoWS Clusters at $z \sim 1$."

43 **Lagattuta, D. J. et al. (Connor, T: 13/21)** *2022, MNRAS, 514, 497*

"Pilot-WINGS: An extended MUSE view of the structure of Abell 370."

44 **Smirnova-Pinchukova, I. et al. (Connor, T: 9/19)** *2021, A&A, 659, 125*

"The Close AGN Reference Survey (CARS): No obvious signature of AGN feedback on star formation, but subtle trends."

45 **Rojas-Ruiz, S. et al. (Connor, T: 4/12)** *2021, ApJ, 920, 150*

"The Impact of Powerful Jets on the Far-infrared Emission of an Extreme Radio Quasar at $z\sim6$."

46 **Gonzalez, A. et al. (Connor, T: 3/8)** *2021, MNRAS, 507, 963*

"Discovery of a Possible Splashback Feature in the Intracluster Light of MACS J1149.5+2223."

47 **Vito, F. et al. (Connor, T: 5/22)** *2021, A&A, 649, 133*

"Chandra and Magellan/FIRE follow-up observations of PSO167-13: an X-ray weak QSO at $z = 6.515$."

48 **Bañados, E. et al. (Connor, T: 7/20)** *2021, ApJ, 909, 80*

"The discovery of a highly accreting, radio-loud quasar at z = 6.82."

49 **Wang, F. et al. (Connor, T: 9/23)** *2021, ApJL, 907L, 1*

"A Luminous Quasar at Redshift 7.642."

50 **Dicker, S.R. et al. (Connor, T: 9/20)** *2020, ApJ, 902, 144*

"The Massive and Distant Clusters of WISE Survey. X. Initial Results from a Sunyaev-Zeldovich Effect Study of Massive Galaxy Clusters at z > 1 Using MUSTANG2 on the GBT."

51 **Frisbie, R.L.S. et al. (Connor, T: 4/9)** *2020, ApJ, 899, 159*

"Properties of the Hot Ambient Medium of Early-type Galaxies Hosting Powerful Radio Sources."

52 **Holoien, T. et al. (Connor, T: 18/33)** *2020, ApJ, 898, 161*

"The Rise and Fall of ASASSN-18pg: Following a TDE from Early to Late Times."

53 **Moravec, E. et al. (Connor, T: 7/21)** *2020, ApJ, 898, 145*

"The Massive and Distant Clusters of WISE Survey. IX. High Radio Activity in a Merging Cluster."

54 **Steinhardt, C.L. et al. (Connor, T: 35/95)** *2020, ApJS, 247, 64*
"The BUFFALO HST Survey."

55 **Gonzalez, E.J. et al. (Connor, T: 11/14)** *2020, MNRAS, 494, 349*
"Setting the scene for BUFFALO: a study of the matter distribution in the HFF galaxy cluster MACS J0416.1-2403 and its parallel field."

56 **Starikova, S. et al (Connor, T: 5/7)** *2020, ApJ, 892, 34*
"Stellar-mass Measurements in A133 with Magellan/IMACS ."

57 **Chen, P., et al. (Connor, T: 17/24)** *2020, ApJL, 889, L6*
"The Most Rapidly-Declining Type I Supernova 2019bkc/ATLAS19dqr."

58 **DeMaio, T., et al. (Connor, T: 7/12)** *2020, MNRAS, 491, 3751*
"The growth of brightest cluster galaxies and intracluster light over the past 10 billion years."

59 **Johnson, S.D., et al. (Connor, T: 5/14)** *2019, ApJL, 884, L31*
"The Physical Origins of the Identified and Still Missing Components of the Warm-Hot Intergalactic Medium: Insights from Deep Surveys in the Field of Blazar 1ES1553+113."

60 **Holoien, T.W.S., et al. (Connor, T: 19/24)** *2019, ApJ, 883, 111*
"Discovery and Early Evolution of ASASSN-19bt, the First TDE Detected by TESS."

61 **Grossova, R., et al. (Connor, T: 11/16)** *2019, MNRAS, 488, 1917*
"Powerful AGN jets and unbalanced cooling in the hot atmosphere of IC 4296."

62 **Husemann, B., et al. (Connor, T: 11/18)** *2019, A&A, 627, 53*
"The Close AGN Reference Survey (CARS). A massive multi-phase outflow impacting the edge-on galaxy HE1353-1917."

63 **Juráňová, A., et al. (Connor, T: 11/12)** *2019, MNRAS, 484, 2886*
"Cooling in the X-ray halo of the rotating, massive early-type galaxy NGC 7049."

64 **Lakhchaura, K., et al. (Connor, T: 7/9)** *2018, MNRAS, 481, 4472*
"Thermodynamic properties, multiphase gas and AGN feedback in a large sample of giant ellipticals."

65 **DeMaio, T., et al. (Connor, T: 5/7)** *2018, MNRAS, 474, 3009*
"Lost but not forgotten: intracluster light in galaxy groups and clusters."

66 **Morrison, H.L., et al. (Connor, T: 5/13)** *2016, AJ, 151, 7*
"Globular and Open Clusters Observed by SDSS/SEGUE: The Giant Stars."

67 **Fogarty, K., et al. (Connor, T: 3/5)** *2015, ApJ, 813, 117*
"Star Formation Activity in CLASH Brightest Cluster Galaxies."

68 **Werner, N., et al. (Connor, T: 9/15)** *2014, MNRAS, 439, 2291*
"The origin of cold gas in giant elliptical galaxies and its role in fuelling radio-mode AGN feedback"

Service and Leadership

CfA	Chair, AAS MegaBooth Committee *(informal)*
Chandra	Organizer, Big Project Panel of annual Peer Review
NuSTAR	Member of the Science Operations Center; Quality Assurance reviewer
Review Panels	NuSTAR, Chandra, NASA ADAP, other NASA peer review
Independent Reviews	ALMA, JWST, Gemini, Hubble, NASA FINNESST
Referee	*The Astrophysical Journal Letters*, *Astronomy & Astrophysics*
Postdoc Representative	Co-Leader of the Carnegie Observatories Postdoc Association for two years
AAS	Founding Member of the Early Career Advisory Board
	Chambliss Poster Judge

Invited Talks and Colloquia

25 Years of Science with the Chandra X-ray Observatory — *Anaheim, California*
APS Global Physics Summit — *March 2025*

25 Years of Science with the Chandra X-ray Observatory — *Lawrence, Kansas*
University of Kansas Physics Colloquium — *November 2024*

25 Years of Science with the Chandra X-ray Observatory — *Stillwater, Oklahoma*
Oklahoma State University Physics Colloquium — *April 2024*

25 Years of Science with the Chandra X-ray Observatory — *Manhattan, Kansas*
Kansas State University Physics Colloquium — *April 2024*

Growing the First Supermassive Black Holes — *Busan, Republic of Korea*
International Astronomical Union General Assembly 2022 — *August 2022*

X-Rays from the Dawn of Time: Understanding the Growth of the First Supermassive Black Holes with X-ray Observations — *Virtual*
Harvard | Smithsonian Center for Astrophysics High Energy – Astrophysics Colloquium — *March 2022*

Lights at the Edge of the Universe: Exploring the Quasar Population at the Dawn of Time — *Virtual*
Harvard | Smithsonian Center for Astrophysics High Energy – Astrophysics Colloquium — *March 2021*

On the Nature of Galaxy Clusters as Archaeological Records — *Virtual*
Observatories of the Carnegie Institution for Science – Colloquium — *February 2021*

Multiwavelength Insights into the Growth and Evolution of Galaxy Clusters — *Virtual*
Harvard | Smithsonian Center for Astrophysics – Galaxy Clusters Seminar — *October 2020*

Building a Galaxy Cluster — *Huntsville, Alabama*
University of Alabama at Huntsville – Physics Seminar — *October 2018*

Formal Collaborations

HEX-P Probe Chair of Media and Communications Group
MaDCoWS Photometric selection and analysis of $z \gtrsim 1$ galaxy clusters
Gaia GraL Machine-learning search for gravitational lenses in *Gaia*
BUFFALO *Hubble*-based exploration of cluster outskirts
AXIS Probe Member of AGN and Galaxies Science Working Groups
Athena Member of Formation and Growth of Earliest SMBH Science Working Group

Honors & Awards

Funding and Fellowships

2023	**Chandra**, Characterizing a dimming, high-redshift quasar	*$26,000*
2024	**XMM**, Survey of radio-loud quasars	*$15,000*
2023	**Chandra**, Confirmation and Characterization of a Lensed High-Redshift Quasar	*$82,243*
2023	**JWST**, Spatially resolving a $z\sim6$ radio-driven outflow	*$123,576*
2023	**Chandra**, Characterizing the Largest ($\sim$40kpc) Radio Jet in the First Gyr of the Universe	*$12,130*
2022	**Chandra**, Surveying for Jets in the First Radio-Loud Quasars	*$222,128*
2022	**NuSTAR**, Breaking the Lens: AGN Cutoff Energy Above Redshift 3	*$99,541*
2022	**JWST**, The JWST-legacy narrow-band survey of Hα and [OIII] emitters in the epoch of reionization	*$14,280*
2021	**Chandra**, Do $z > 6$ Quasar Companions Host AGN?	*$59,840*
2021	**Chandra**, An AGN census in a radio-active cluster merger at $z\sim1$	*$62,200*
2021	**NuSTAR**, The NuSTAR View of the Epoch of Reionization: Hard Energy Insights Into the Drivers of Early Quasar Superluminosity	*$20,000*
2019	**XMM**, Unlocking Super-Eddington Accretion with the Most Distant Radio Source	*$71,514*
2019	**Chandra**, Hunting down the first heavily obscured QSO at $z > 6$	*$5,000*
2019	**Fellowship**, NASA Postdoctoral Program Fellow	*$300,000*
2017	**HST**, UV Observation of a QSO Sightline Intersecting an X-ray Identified Filament of the Cosmic Web	*$61,543*
2016	**Fellowship**, Michigan State University College of Natural Science Dissertation Completion Fellowship	*$6,000*
2016	**Fellowship**, MSU Physics Fellowship	*$1,702*

Awards

2022	**JPL Postdoc Research Award**, Awarded for the best research poster in Astronomy & Astrophysics, one of five lab-wide categories	*JPL*
2016	**Kaplan Award**, Awarded for the best presentation of the year at the MSU Physics Grad Organization lunch talks	*MSU*
2012	**Best Graduate TA Award**, Awarded for the best graduate teaching assistant of the year in the MSU Department of Physics and Astronomy	*MSU*
2009	**Peter Witt Scholarship**, CWRU scholarship honoring students who have shown a dedication to community involvement	*CWRU*
2009	**Case Alumni Association Scholarship**, Awarded to CWRU students majoring in STEM based on merit, need, and skills	*CWRU*

Selected Education and Public Outreach

Public Talks

Astronomy on Tap Hawai'i — *Hilo, Hawai'i*
25 Years of Chandra: A Quarter Century of Cosmic Explosions, Black Holes, and Stellar Winds — *October 2024*

AAS 244 Exhibitor Theater — *Madison, Wisconsin*
25 Years of Chandra – Science from NASA's X-ray Flagship — *June 2024*

Astronomy on Tap Madison — *Madison, Wisconsin*
25 Years of Science from the Chandra X-Ray Observatory — *June 2024*

Conference Booths

2025	**AAS 246**, Led team of 5	*Anchorage, AK*
2025	**APS Global Summit**, Led team of 2	*Anaheim, CA*
2025	**AAS 245**, Led team of 6	*Washington, DC*
2024	**AAS 244**, Led team of 4	*Madison, WI*
2024	**21st HEAD Meeting**, Sole staffer	*Austin, TX*
2024	**AAS 243**, Led team of 10	*New Orleans, LA*
2023	**AAS 242**, Lead team of 8	*Albuquerque, NM*
2023	**APS April**, Lead team of 2	*Minneapolis, MN*
2023	**20th HEAD Meeting**, Lead team of 4	*Waikoloa Village, HI*
2023	**AAS 241**, Lead team of 8	*Seattle, WA*

Programs

Cambridge Explores the Universe	Organizing and running Chandra booth
Mt Wilson STEM Program	Overnight educational program for students
Carnegie Observatories Open House	Developed and ran Spectroscopy display

Observing Experience

Observing

Magellan Baade Telescope — *Las Campanas Observatory, Chile*
IMACS, IMACS-GISMO, FIRE, MagE, FourStar — *First: 2017*

Magellan Clay Telescope — *Las Campanas Observatory, Chile*
LDSS-3 — *First: 2018*

Hale Telescope — *Palomar Observatory, USA*
DBSP, TripleSpec, WIRC — *First: 2020*

SOAR Telescope — *Cerro Tololo Inter-American Observatory, Chile*
Goodman, SOI, Spartan — *First: 2012*

Irénée du Pont Telescope — *Las Campanas Observatory, Chile*
Direct CCD, Echelle, WFCCD — *First: 2017*

Burrell Schmidt Telescope — *Kitt Peak National Observatory, USA*
Direct Imaging — *First: 2011*

Additional Data Reduced and Analyzed

Hubble Space Telescope — *UV / Optical / IR*
ACS/WFC3 Imaging, COS Spectra

Chandra X-ray Observatory *X-Ray*

ACIS Imaging and Spectroscopy

XMM-Newton *X-Ray*

EPIC Imaging and Spectroscopy

Keck I *Near-IR*

MOSFIRE Imaging

Gemini-North *Optical*

GMOS Imaging

Mentoring and Supervision

Ben Phan *CfA*

SPARK Intern, to present at AAS 247 *2025–*

Gabrielle Oliva *CfA*

Summer REU Student, to present at AAS 247 *2025*

Will Kinley *CfA*

Summer REU Student, to present at AAS 247 *2025*

Katie Cranmer *CfA*

Chandra IT Specialist, presented a poster at 2025 Summer AAS: " MaDCoWS Get X-ray Vision: Cross-Matching MaDCoWS2, eRASS, and the CSC to Search for X-ray Emission of Early Galaxy Clusters " *2024–2025*

Osase Omoruyi *Harvard*

Harvard Astronomy PhD Student, advised while her official advisor was on paternity leave *2023*

Sophia Torrance *CASSI*

Summer Student, presented a poster at 2020 Winter AAS: "Exploring Galaxy Quenching Mechanisms in Groups and Clusters: A Morphological Analysis of Red Sequence Galaxies" *2019*

References

Dr. Daniel Stern NuSTAR Project Scientist
Senior Research Scientist, Jet Propulsion Laboratory / California Institute of Technology
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Dr. John Mulchaey Crawford H. Greenewalt Chair and Director of The Observatories of the Carnegie Institution for Science
Past President, Carnegie Institution for Science
mulchaey@carnegiescience.edu | 626.304.0257

Prof. Megan Donahue University Distinguished Professor, Michigan State University
Past President, American Astronomical Society
donahu42@msu.edu | 517.884.5618