

## CURRICULUM VITÆ: DANIEL STERN

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### **Education:**

Ph.D., Astrophysics, University of California, Berkeley (1999)  
M.A., Astronomy, University of California, Berkeley (1994)  
A.B., Physics, Princeton University, *magna cum laude* (1991)

### **Research Interests:**

Observational cosmology; identifying and studying galaxies at high redshift  
Active galaxies; understanding the cosmic history of black hole formation and activity

### **Medals and Awards:**

NASA Exceptional Scientific Achievement Medal (2014)  
NASA Exceptional Achievement Medal (2013)

### **Other Honors and Awards:**

Web Of Science Highly Cited Researcher (2016 - 2019)  
Voyager Award for Outstanding Contributions to the *NuSTAR* Project, JPL (2016)  
NASA Group Achievement Award to the *NuSTAR* Extragalactic Surveys Team (2016)  
NASA Group Achievement Award to the *NuSTAR* Galactic Surveys Team (2016)  
NASA Group Achievement Award to the Massive, Distant Clusters of *WISE* Survey Team (2016)  
NASA Group Achievement Award to the *WISE* Hot, Dust-Obscured Galaxies Team (2016)  
NASA Group Achievement Award to the *NuSTAR* Project Team (2015)  
NASA Group Achievement Award to the *NuSTAR* Media Team (2015)  
JPL Group Achievement Award to the *PolSTAR* Proposal Team (2015)  
NASA Group Achievement Award to the *NuSTAR* Science Team (2014)  
Edward Stone Award for Outstanding Research Publication, JPL (2013)  
Ranger Award for *NuSTAR* Scientific Leadership, JPL (2013)  
Lew Allen Award for Excellence, JPL (2005)  
Institute for Geophysics and Planetary Physics (IGPP) Graduate Fellowship (1997 – 1999)  
Deutsche Akademische Austausch Dienst (DAAD) Scholar, Munich, Germany (1991 – 1992)

### **Professional Experience:**

Project Scientist, *NuSTAR* (2007 – 2020)  
Senior Research Scientist at Jet Propulsion Laboratory (2016 – present)  
Research / Principal Scientist at Jet Propulsion Laboratory (2001 – 2015 / 2015 – 2016)  
Caltech Postdoctoral Scholar at Jet Propulsion Laboratory (1999 – 2001)

**Teaching Experience:**

University of Southern California: co-taught upper-level undergraduate class (Spring 2005)

University of California, Berkeley: co-taught course on the history of Astronomy (Summer 1995)

**Key Professional Activities:**

Member of Galaxies science sub-panel of Astro2020 Decadal Survey (2019 – present)

Member of Science and Technology Definition Team (STDT) for future flagship mission concepts  
*Habitable Exoplanet Imaging Mission (HabEx)* and *Lynx* (2016 – 2020).

Member of STDT for *Wide-Field Infrared Survey Telescope (WFIRST)* (2011 - 2015)

Served on Time Allocation Committees for *Chandra X-Ray Telescope*, *Spitzer Space Telescope*,  
*Hubble Space Telescope*, *GALEX*, *Suzaku*, NOAO, Palomar, ...

**Professional Societies and Affiliations:**

American Astronomical Society (AAS)

High Energy Astrophysics Division (HEAD)

**Experience as Mentor/Advisor:**

Advised JPL Postdoctoral Fellows: Thomas Connor (NPP; 2019 – present); Gaël Noirot (2018);  
Dominic Walton (NPP; 2014 – 2016); Hyunsung Jun (NPP; 2014 – 2016); Alessandro  
Rettura (2015 – 2016); Roberto Assef (NPP; 2010 – 2013); Audrey Galametz (2010 –  
2011) and Nicholas Seymour (2005 – 2008)

Co-advised JPL Postdoctoral Fellows: Chao-Wei Tsai (2014 – 2016); Mark Brodwin (2005 – 2007)

Co-advised Ph.D. students: Lynn Saade (UCLA; 2021); Aaron Stemo (University of Colorado,  
Boulder; 2020); Gaël Noirot (Paris; 2017); Dominika Wylezalek (Munich; 2015), R. Scott  
Barrows (University of Arkansas; 2013), Audrey Galametz (Obs. Astron. Strasbourg;  
2010), Megan Eckart (Caltech; 2007); Peter Mao (Caltech; 2004)

Advised Predoctoral student, Roger Griffith (2008 – 2010)

Mentored or co-mentored numerous JPL SURF students (2001 – present)

**Mission Experience:**

*NuSTAR* (launched in 2012): Project Scientist (PI Fiona Harrison)

*Euclid* (launch in 2022): Deputy PI of NASA-funded 60-person science team (PI Jason Rhodes)

Project Scientist for *PolSTAR* Small Explorer (2015; Cat. 2 - not selected; PI Henric Krawczynski)  
and *Centaurus* Discovery mission (2019; Cat. 2 - not selected; PI Alan Stern)

**Consulting Experience:**

Consulted on *Ad Astra*, a Hollywood science fiction movie currently in production, starring Brad  
Pitt. Opened September 2019.

Consulted on *How the Universe Works*, Season 6 (Discovery Channel), as an on-screen expert on  
black holes and quasars. Aired Winter 2017/2018.

**Grants and Approved Programs (P.I.):**

- Astrophysics Data Analysis Program (ADAP) 2015 – “SACS: The *Spitzer* Archival Cluster Survey” (\$302,680)
- Astrophysics Data Analysis Program (ADAP) 2012 – “Mid-Infrared Selected AGN from the *Wide-field Infrared Survey Explorer (WISE)*” (\$444,080)
- Spitzer Space Telescope* Cycle 10 Program — “*Warm Spitzer* Imaging of *NuSTAR* Fields” (134.4 hr.; priority 1)
- Spitzer Space Telescope* Cycle 8 Snapshot Program — “A Snapshot Survey of Galaxy Clusters around High-Redshift Radio Galaxies and Quasars” (289 hr.; \$183,600)
- Spitzer Space Telescope* Cycle 7 Snapshot Program — “A Snapshot Survey of Galaxy Clusters around High-Redshift Radio Galaxies and Quasars” (119 hr.; \$114,000)
- Spitzer Space Telescope* Cycle 4 Legacy Program — “SDWFS: The *Spitzer* Deep, Wide-Field Survey” (201 hr.; ~ \$650,000)
- Spitzer Space Telescope* Cycle 4 GTO Program — “*Spitzer* Studies of High-Redshift Radio Galaxies” (20 hr.)
- Spitzer Space Telescope* Cycle 2 GO Program — “*Spitzer* Imaging of Spectroscopically-Confirmed, X-Ray-Luminous, Obscured AGN” (15 hr.)
- Spitzer Space Telescope* Cycle 1 GO Program — “The Most Massive Galaxies at Every Epoch: A Comprehensive *Spitzer* Survey of High-Redshift Radio Galaxies” (28.3 hr)
- Chandra X-Ray Observatory* AO 18 GO Program — “Surveying the X-Ray Properties of Candidate Subparsec Scale SMBH Binaries” (58.3 ks; \$54,020)
- Chandra X-Ray Observatory* AO 3 GO Program — “*Chandra* Observations of a Galaxy Cluster at  $z = 1.11$ ” (40 ks)
- Hubble Space Telescope* Cycle 22 GO Program – “Clusters Around Radio-Loud AGN: Spectroscopy of Infrared-Selected Galaxy Clusters at  $z > 1.4$ ” (40 orbits; \$266,623)
- Hubble Space Telescope* Cycle 8 GO Program – “WFPC2 Imaging of a Galaxy at  $z = 5.34$  and its Field” (20 orbits)
- XMM-Newton* AO 19 GO Program – “*XMM-Newton* Survey of *Gaia*-Selected Strongly Lensed Quasars” (192 ks, priority C)
- XMM-Newton* AO 15 GO Program – “Extremely Luminous, Heavily Obscured WISE-Selected AGN” (23 ks, priority B; \$44,628)
- XMM-Newton* AO 15 GO Program – “Observing the Extreme ULX Circinus ULX5 in an Extreme Flux State” (43 ks, priority B; Science P.I. Dominic Walton; \$43,145)
- XMM-Newton* AO 15 GO Program – “Searching for Reflection in PG 1302-102, a Candidate sub-pc Scale SMBH Binary” (134 ks, priority C; Science P.I. Dominic Walton)
- XMM-Newton* AO 14 GO Program – “The Extreme Hard Excess and Black Hole Spin of IRAS 13197-1627” (100 ks + 75 ks *NuSTAR*, priority A; Science P.I. Dominic Walton; \$59,520)
- XMM-Newton* AO 14 GO Program – “Extremely Luminous, Heavily Obscured WISE-Selected AGN” (46 ks, priority B; 96 ks, priority C; \$52,620)
- XMM-Newton* AO 11 GO Program – “A Population of Extremely Luminous WISE-Selected Obscured AGN at  $z \sim 2$ ” (94 ks; \$64,900)

*Suzaku* AO 7 GO Program – “*WISE* J1819+4532: An Obscured, Hyperluminous ULIRG/AGN at  $z \sim 2$ ” (30 ks)

JPL R&TD Funds FY09–13 — “The Cosmic History of Black Hole Growth Revealed by *NuSTAR* and *Spitzer*” ( $\sim$  \$200K)

JPL Internal Funds FY09/FY10 — “The *Near-Infrared Sky Surveyor*” (\$30K/\$5K)

JPL B&P Funds 2006–present — Support for writing large proposals ( $\sim$  \$40K)

Caltech/JPL President’s and Director’s Fund — “Complete Calibration of the Color-Redshift Relation with the Keck Telescopes” (\$257,720; partner with Prof. Cohen, Caltech)

JPL Strategic University Research Partnership for FY2016 — “Tracing Supermassive Black Hole Growth: Using *Spitzer*, *WISE*, *HST* to Pave the Way for *JWST*” (\$25K; partner with Prof. Comerford, University of Colorado, Boulder)

Gemini-S Observatory Demonstration Science — “Multi-Object Infrared Spectroscopy of the *Chandra* Deep Field - South” (6 nights)

Keck Observatory 2016B/2017B (NASA Keck Allocation) — “Complete Calibration of the Color-Redshift Relation” (10 nights; \$80K)

Keck Observatory 2013B (NASA Keck Allocation) — “Clusters around Radio-Loud AGN: MOS-FIRE Spectroscopy of *Spitzer*-Selected Galaxy Clusters at  $z > 1.4$ ” (1 nights; \$13.5K)

### **Key Space-Based Grants and Approved Programs (co-I.):**

*Nuclear Spectroscopic Telescope Array (NuSTAR)* (Project Scientist; PI Fiona Harrison) — NASA Small Explorer; launched in 2012; funding in place through FY2022.

*Euclid* Science Team (Deputy PI; PI Jason Rhoads) — ESA/NASA M-class mission; launch planned for 2022; our 60-person has NASA funding through 2027 ( $>$  \$15M total).

Astrophysics Data Analysis Program (ADAP) — 5 approved programs since 2012, with funded roles on: “A Multi-Wavelength Approach to Quasar Variability: New Insights into Their Physics, Evolution and Selection Effects” (2016; \$499,947; P.I. S.G. Djorgovski); “CatWISE: A Full-Sky *WISE*-Selected Catalog from *WISE* and *NEOWISE* Data” (2016; \$656,620; P.I. Peter Eisenhardt)

*Hubble Space Telescope* — 22 approved GO programs

*Spitzer Space Telescope* — 32 approved GO programs

*Chandra X-Ray Observatory* — 30 approved GO programs

*XMM-Newton* – 40 approved GO programs

*NuSTAR* — 16 approved GO programs

*Herschel Space Observatory* — 7 approved GO programs

*Suzaku* – 6 approved GO programs

*Swift* — 4 approved GO programs

Keck Observatory (NASA Keck Allocation) — 2 approved GO programs

## LIST OF REFEREED PUBLICATIONS

(‡: Indicates paper has been cited  $\geq 100$  times.)

[*h*-index: 100 (ADS); 112 (Google Scholar)]

**Invited review:**

585. “Search Techniques for Distant Galaxies” — Stern, D. & Spinrad, H. 1999, *PASP*, 111, 1475-1502.

**First author refereed publications (in reverse chronological order):**

584. “A Mid-IR Selected Changing-Look Quasar and Physical Scenarios for Abrupt AGN Fading” — Stern, D., *et al.* 2018, *ApJ*, 864, 27.

583. “Extreme Variability in a Broad Absorption Line Quasar” — Stern, D., Graham, M.J., Arav, N. *et al.* 2017, *ApJ*, 839, 2.

582. “The X-Ray to Mid-Infrared Relation of AGN at High Luminosity” — Stern, D. 2015, *ApJ*, 807, 129.

581. “*NuSTAR* and *XMM-Newton* Observations of Luminous, Heavily Obscured, *WISE*-Selected Quasars at  $z \sim 2$ ” — Stern, D., *et al.* 2014, *ApJ*, 794, 102.

580. “Revisiting the Gamma-Ray Source 2FGL J1823.8+4312” — Stern, D. & Assef, R.J. 2013, *ApJL*, 764, L30.

579.‡ “Mid-Infrared Selection of AGN with the *Wide-Field Infrared Survey Explorer*. I. Characterizing *WISE*-Selected AGN in COSMOS” — Stern, D., *et al.* 2012, *ApJ*, 753, 30.

578. “Cosmic Chronometers: Constraining the Equation of State of Dark Energy. II: A Spectroscopic Catalog of Red Galaxies in Galaxy Clusters” — Stern, D., Jimenez, R., Verde, L., & Kamionkowski, M. 2010, *ApJS*, 188, 280-289.

577.‡ “Cosmic Chronometers: Constraining the Equation of State of Dark Energy. I:  $H(z)$  Measurements” — Stern, D., Jimenez, R., Verde, L., Kamionkowski, M. & Stanford, S.A. 2010, *JCAP*, 2, 8.

576. “Mid-Infrared Selection of Brown Dwarfs and High-Redshift Quasars” — Stern, D., Kirkpatrick, J.D., *et al.* 2007, *ApJ*, 663, 677.

575. “*Spitzer* Observations of the Prototypical Extremely Red Objects HR 10 and LBDS 53W091: Separating Dusty Starbursts from Old Elliptical Galaxies” — Stern, D., Chary, R., Eisenhardt, P., & Moustakas, L. 2006, *AJ*, 132, 1405-1414.

574.‡ “Mid-Infrared Selection of Active Galaxies” — Stern, D., Eisenhardt, P., Gorjian, V., *et al.* 2005, *ApJ*, 631, 163-168.

573. “A Galaxy at  $z = 6.545$  and Constraints on the Epoch of Reionization” — Stern, D., Yost, S., Eckart, M., Harrison, F., Helfand, D., Djorgovski, S.G., Malhotra, S., & Rhoads, J.E. 2005, *ApJ*, 619, 12-18.

572. “Discovery of a Transient *U*-Band Dropout in a Lyman-Break Survey: A Tidally-Disrupted Star at  $z = 3.3$ ?” — Stern, D., Sand, D., van Dokkum, P.G., Bloom, J.S., Ellis, R.S., Frail, D.A., Kneib, J.-P., Koopmans, L.V.E., Nugent, P., Sullivan, M., & Treu, T. 2004, *ApJ*, 612, 690-697.

571. “Gemini-South + FLAMINGOS Demonstration Science: Near-IR Spectroscopy of the  $z = 5.77$  Quasar SDSS J083643.85+005453.3” — Stern, D., Hall, P., Barrientos, L.F., Bunker, A.J.,

- Elston, R., Ledlow, M.J., Raines, S.N., & Willis, J. 2003, ApJ, 596, L39-42.
570. “Confirmation of a Radio-Selected Galaxy Overdensity at  $z = 1.11$ ” — Stern, D., Holden, B., Stanford, S.A., & Spinrad, H. 2003, AJ, 125, 2759-2768.
569. “SPICES II: Optical and Near-Infrared Identifications of Faint X-Ray Sources from Deep *Chandra* Observations of Lynx” — Stern, D., *et al.* 2002, AJ, 123, 2223-2245.
- 568.<sup>‡</sup> “*Chandra* Detection of a Type-2 Quasar at  $z = 3.288$ ” — Stern, D., *et al.* 2002, ApJ, 568, 71-81.
567. “Evidence Against a Redshift  $z > 6$  for the Galaxy STIS 123627+621755” — Stern, D., Eisenhardt, P., Spinrad, H., Dawson, S., van Breugel, W., Dey, A., de Vries, W., & Stanford, S.A. 2000, Nature, 408, 560-562.
566. “One-Line Redshifts and Searches for High-Redshift Ly $\alpha$  Emission” — Stern, D., Bunker, A.J., Spinrad, H., & Dey, A. 2000, ApJ, 537, 73-79.
565. “Discovery of a Color-Selected Quasar at  $z = 5.50$ ” — Stern, D., Spinrad, H., Eisenhardt, P.R., Bunker, A.J., Dawson, S., Stanford, S.A., & Elston, R. 2000, ApJ, 533, L75-L78.
564. “Radio Properties of Optically-Selected  $z > 4$  Quasars” — Stern, D., Djorgovski, S.G., Perley, R., de Calvalho, R., Wall, J. 2000, AJ, 132, 1526-1533.
563. “New High Redshift Radio Galaxies from the MIT-Green Bank Catalog” — Stern, D., Dey, A., Spinrad, H., Maxfield, L., Dickinson, M., Schlegel, D., & González, R. 1999, AJ, 117, 1122-1138.
562. “*HST* Observations of the Radio Galaxy MG 1136+1346 ( $z = 1.003$ )” — Stern, D., Spinrad, H., & Dickinson, M. 1996, AJ, 111, 102-108.
- 561.<sup>‡</sup> “Microwave Background Anisotropy in a Toroidal Universe” — Stern<sup>1</sup>, D., Scott, D., & Silk, J. 1993, Phys. Rev. Lett., 71, 20-23.

**Other refereed publications (in reverse chronological order):**

560. “The Unusual Broadband X-Ray Spectral Variability of NGC 1313 X-1 Seen with *XMM-Newton*, *Chandra*, and *NuSTAR*” — Walton, D.J., *et al.*, MNRAS, in press (arXiv:1911.09622).
559. “The Massive and Distant Clusters of WISE Survey. VIII. SZ-Effect Verification with the Atacama Compact Array: Localisation and Cluster Analysis” — Di Mascolo, L., *et al.*, A&A, in press (arXiv:2004.06728).
558. “The CatWISE Preliminary Catalog: Motions from *WISE* and *NEOWISE* Data” — Eisenhardt, P., *et al.* 2020, ApJS, 247, 69.
557. “Local AGN Survey (LASr): I. Galaxy Sample, Infrared Colour Selection and Predictions for AGN within 100 Mpc” — Asmus, D., *et al.* 2020, MNRAS, 494, 1784.
556. “BAT AGN Spectroscopic Survey - XV: The High Frequency Radio Cores of Ultra-hard X-ray Selected AGN” — Smith, K., *et al.* 2020, MNRAS, 492, 4216.
555. “The (Re)Appearance of NGC 925 ULX-3, A New Transient ULX” — Earnshaw, H., *et al.* 2020, ApJ, 891, 153.

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<sup>1</sup>My surname at the time of this publication was Stevens; I have since returned to the pre-WWII family surname of Stern.

554. “VLT/SINFONI Study of Black Hole Growth in High-Redshift Radio-Loud Quasars from the CARLA Survey” — Marinello, M., *et al.* 2020, MNRAS, 492, 1991.
553. “BAT AGN Spectroscopic Survey – XIX: Type 1 versus Type 2 AGN Dichotomy from the Point of View of Ionized Outflows” — Rojas, A.F., *et al.* 2020, MNRAS, 491, 5867.
552. “Understanding Extreme Quasar Optical Variability with CRTS: II. Changing-State Quasars” — Graham, M.G., Ross, N.P., Stern, D. *et al.* 2020, MNRAS, 491, 4925.
551. “Spectral Evolution of the Ultraluminous X-Ray Sources M82 X-1 and X-2” — Brightman, M., *et al.* 2020, ApJ, 889, 71.
550. “Spectral Classification and Ionized Gas Outflows in  $z \sim 2$  *WISE*-Selected Hot Dust-Obscured Galaxies” — Jun, H., *et al.* 2020, ApJ, 888, 110.
549. “A Catalog of AGN Observed with *HST*/ACS: Correlations between Star Formation and AGN Activity” — Stemo, A., Comerford, J.M., Barrows, R.S., Stern, D., *et al.* 2020, ApJ, 888, 78.
548. “The Massive and Distant Clusters of *WISE* Survey. VII: The Environments and Properties of Radio Galaxies in Clusters at  $z \sim 1$ ” — Moravec, E., Gonzalez, A.H., Stern, D., *et al.* 2020, ApJ, 888, 84.
547. “The Broadband X-ray Spectrum of the X-ray Obscured Type 1 AGN 2MASX J193013.80+341049.5” — Kamraj, N., Baloković, M., Brightman, M., Stern, D., *et al.* 2019, ApJ, 887, 255.
546. “X-Ray Observations of a  $z \sim 6.2$  Quasar/Galaxy Merger” — Connor, T., Bañados, E., Stern, D., *et al.* 2019, ApJ, 887, 171.
545. “*NuSTAR* Observations of the Unidentified *INTEGRAL* Sources: Constraints on the Galactic Population of HMXBs” — Clavel, M., *et al.* 2019, ApJ, 887, 32.
544. “The Nature of the Broadband X-Ray Variability in the Dwarf Seyfert Galaxy NGC 4395” — Kammoun, E., *et al.* 2019, ApJ, 886, 145.
543. “BAT AGN Spectroscopic Survey - XIII. The Nature of the Most Luminous Obscured AGN in the Low-Redshift Universe” — Bär, R., *et al.* 2019, MNRAS, 489, 3073.
542. “RAM-Pressure Stripping of a Kicked Hill Sphere: Prompt Electromagnetic Emission from the Merger of Stellar Mass Black Holes in an AGN Accretion Disk” — McKernan, B., *et al.* 2019, ApJL, 884, L50.
541. “Discovery and Identification of MAXI J1621-501 as a Type I X-Ray Burster with a Super-Orbital Period” — Gorgone, N., *et al.* 2019, 884, 168.
540. “1ES 1927+654: An AGN Caught Changing Look on a Timescale of Months” — Trakhtenbrot, B., *et al.* 2019, ApJ, 883, 94.
539. “A New Class of Changing-Look LINERs” — Frederick, S., *et al.* 2019, ApJ, 883, 31.
538. “Bringing Manifold Learning and Dimensionality Reduction to SED Fitters” — Hemmati, S., *et al.* 2019, ApJL, 881, L14.
537. “BAT AGN Spectroscopic Survey. XVI. General Physical Characteristics of BAT Blazars” — Paliya, V.S., *et al.* 2019, ApJ, 881, 154.
536. “A Broadband Look at the Old and New ULXs of NGC 6946” — Earnshaw, H.P., *et al.* 2019, ApJ, 881, 38.
535. “CWISEP J193518.59-154620.3: An Extremely Cold Brown Dwarf in the Solar Neighborhood

- Discovered with CatWISE” — Marocco, F., *et al.* 2019, ApJ, 881, 17.
534. “*Gaia* GraL: *Gaia* DR2 Gravitational Lens Systems. IV. GRAL J113100-441959 Confirmation and System Modelling” — Wertz, O., Stern, D., *et al.* 2019, A&A, 628, 17.
533. “Io’s Volcanic Activity from Time Domain Adaptive Optics Observations: 2013-2018” — de Kleer, K., *et al.* 2019, AJ, 158, 29.
532. “The Massive and Distant Clusters of *WISE* Survey. VI. Stellar Mass Fractions of a Sample of High-Redshift, Infrared-Selected Galaxy Clusters” — Decker, B., *et al.* 2019, ApJ, 878, 72.
531. “Photometric Redshift Calibration Requirements for WFIRST Weak-lensing Cosmology: Predictions from CANDELS” — Hemmati, S., *et al.* 2019, ApJ, 877, 117.
530. “A Hard Look at NGC 5347: Revealing a Nearby Compton-Thick AGN” — Kammoun, E.S., *et al.* 2019, ApJ, 877, 102.
529. “Complete Calibration of the Color-Redshift Relation (C3R2): Updates, Analysis, and Data Release 2” — Masters, D., Stern, D., *et al.* 2019, ApJ, 877, 81.
528. “A Low-Flux State in IRAS 00521-7054 Seen with *NuSTAR* and *XMM-Newton*: Relativistic Reflection and an Ultrafast Outflow” — Walton, D., *et al.* 2019, MNRAS, 484, 2544.
527. “Rapid ‘Turn-On’ of Type-1 AGN in a Quiescent Early-Type Galaxy SDSS J1115+0544” — Yan, L., *et al.* 2019, ApJ, 874, 44.
526. “Changing-Look Quasar Candidates: First Results from Follow-up Spectroscopy of Highly Optically Variable Quasars” — MacLeod, C., *et al.* 2019, ApJ, 874, 8.
525. “A Deep X-Ray View of the Bare AGN Ark 120. V. Spin Determination from the Disc-Comptonization Efficiency Method” — Porquet, D., *et al.* 2019, A&A, 623, 11.
524. “The Environments of Luminous Radio-*WISE* Selected Infrared Galaxies” — Penney, J.I., *et al.* 2019, MNRAS, 483, 514.
523. “The Massive and Distant Clusters of *WISE* Survey. I. Survey Overview and Catalog of 2000 Galaxy Cluster Candidates at  $z \simeq 1$ ” — Gonzalez, A., *et al.* 2019, ApJS, 240, 33.
522. “Searching for the Donor Stars of ULX Pulsars” — Heida, M., *et al.* 2019, ApJ, 871, 231.
521. “Massive and Distant Clusters of *WISE* Survey. V. Extended Radio Sources in Massive Galaxy Clusters at  $z \sim 1$ ” — Moravec, E., Gonzalez, A.H., Stern, D. *et al.* 2019, ApJ, 871, 186.
520. “*Gaia* GraL III — *Gaia* DR2 Gravitational Lens Systems: A Systematic Blind Search for New Lensed Systems” — Delchambre, L., *et al.* 2019, A&A, 622, 165.
519. “A New Class of Flares from Accreting Supermassive Black Holes” — Trakhtenbrot, B., *et al.* 2019, Nature Astronomy, 3, 242.
518. “Results of a Systematic Search for Outburst Events in 1.4 Million Galaxies” — Drake, A., Djorgovski, S.G., Graham, M.G., Stern, D., *et al.* 2019, MNRAS, 482, 98.
517. “The Lick AGN Monitoring Project 2011: Photometric Light Curves” — Pancoast, A., *et al.* 2019, ApJ, 871, 108.
516. “The First *NuSTAR* and the Last *Suzaku* Observations of Mrk 509: A Warm Corona or Relativistic Reflection” — García, J., *et al.* 2019, ApJ, 871, 88.
515. “*NuSTAR* and Keck Observations of Heavily Obscured Quasars Selected by *WISE*” — Yan, W., Hickox, R.C., Hainline, K.C., Stern, D., *et al.* 2019, ApJ, 870, 33.



514. “*Chandra* Observations of *NuSTAR* Serendipitous Sources near the Galactic Plane” — Tom-sick, J.A., *et al.* 2018, ApJ, 869, 171.
513. “Massive and Distant Clusters of *WISE* Survey. IV. The Distribution of Active Galactic Nuclei in Massive Galaxy Clusters at  $z \sim 1$ ” — Mo, W., Gonzalez, A., Stern, D., *et al.* 2018, ApJ, 869, 131.
512. “The Multiple Merger Assembly of a Hyper-Luminous Obscured Quasar at  $z = 4.6$ ” — Díaz-Santos, T., *et al.* 2018, Science, 362, 1034.
511. “A New Physical Interpretation of Optical and Infrared Variability in Quasars” — Ross, N.P., Ford, K.E.S., Graham, M.G., McKernan, B., Stern, D., *et al.* 2018, MNRAS, 480, 4468.
510. “*NuSTAR* Observations of Mrk 766: Distinguishing Reflection from Absorption” — Buisson, D., *et al.* 2018, MNRAS, 480, 3689.
509. “Super-Eddington Accretion in the *WISE*-Selected Extremeley Luminous Infrared Galaxy W2246–0526” — Tsai, C.-W., *et al.* 2018, ApJ, 865, 15.
508. “The *NuSTAR* Extragalactic Surveys: Unveiling Rare, Buried AGNs and Detecting the Contributors to the Peak of the Cosmic X-ray Background” — Masini, A., *et al.* 2018, ApJ, 867, 162.
507. “A Long, Hard X-Ray Look at the Dual Active Galactic Nuclei of M51 with *NuSTAR*” — Brightman, B., *et al.* 2018, ApJ, 867, 110.
506. “The Discovery of a Gravitationally Lensed Supernova Ia at Redshift 2.22” — Rubin, D., *et al.* 2018, ApJ, 866, 65.
505. “The 2.4  $\mu\text{m}$  Galaxy Luminosity Function as Measured using *WISE*. III. Measurement Results” — Lake, S.E., *et al.* 2018, ApJ, 866, 45.
504. “The 2.4  $\mu\text{m}$  Galaxy Luminosity Function as Measured using *WISE*. II. Sample Selection” — Lake, S.E., *et al.* 2018, ApJ, 866 44.
503. “A Luminous Transient Event in a Sample of *WISE*-Selected Variable AGN” — Assef, R.J., Prieto, J.L., Stern, D., *et al.* 2018, ApJ, 866, 26.
502. “An Iwasawa-Taniguchi Effect for Compton-Thick Active Galactic Nuclei” — Boorman, P., *et al.* 2018, MNRAS, 477, 3775.
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- “Morphology, Activity, and Size of Interstellar Comet 2I/Borisov Revealed by Optical and Near-Infrared GROWTH, APO, IRTF, ZTF, *HST*, and Keck Observations” — Bolin, B., *et al.*, ApJ, submitted (arXiv:1910.14004).
- “*Swift* Monitoring of M51: A 38-Day Super-Orbital Period for the Pulsar ULX7 and a New Transient ULX” — Brightman, M., *et al.*, ApJ, submitted (arXiv:1912.04431).
- “*Gaia* GraL: *Gaia* DR2 Gravitational Lens Systems. V. Discovery and Spectroscopic Confirmation of Quasar Lenses Selected from Two New Principles: Entropy and Wavelet Power Spectra” — Krone-Martins, A., Graham, M.G., Stern, D. *et al.*, A&A, submitted (arXiv:1912.08977).
- “The BAT AGN Spectroscopic Survey – XVIII. Searching for Supermassive Black Hole Binaries in the X-rays” — Liu, T., *et al.*, ApJ, submitted (arXiv:1912.02837).
- “The First High-Redshift Changing-Look Quasars” — Ross, N.P., *et al.*, MNRAS, submitted (arXiv:1912.05310).
- “*Chandra* Observations of Candidate Sub-Parsec Binary Supermassive Black Holes” — Saade, M.L., Stern, D., *et al.*, ApJ, submitted (arXiv:2001.08870).
- “A Redshift for the First Einstein Ring, MG 1131+0456” — Stern, D. & Walton, D.J., ApJL, submitted.
- “Deep Modeling of Quasar Variability” — Tachibana, Y., *et al.*, ApJ, submitted (arXiv:2003.01241).
- “Testing the Relativistic Doppler Boost Hypothesis for the Binary Candidate Quasar PG 1302-102 with Multi-Band *Swift* Data” — Xin, C., *et al.*, MNRAS, submitted (arXiv:1907.11246).

### Selected non-refereed publications:

- “The *Habitable Exoplanet Observatory (HabEx)* Mission Concept Study Final Report” — Gaudi, S., *et al.*, 2019 (arXiv:2001.06683).
- “The *Lynx X-Ray Observatory* Mission Concept Study Final Report” — Vikhlinin, A., *et al.*, 2019.
- “*Wide-Field InfraRed Survey Telescope – Astrophysics Focused Telescope Assets: WFIRST-AFTA* 2015 Report” — Spergel, D., *et al.*, 2015 (arXiv:1503.03757).
- “*Wide-Field Infrared Survey Telescope (WFIRST)* Final Report” — Green, J., *et al.* 2012 (arXiv:1208.4012).
- “The *Near-Infrared Sky Surveyor (NIRSS)*” — Stern, D., *et al.* 2009, White Paper submitted to the Astro2010 Decadal Survey (arXiv:1008.3563).