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EDUCATION

- Ph.D. Astrophysics.** Columbia University, 2004
Thesis: Cataclysmic Variable Population Studies – Advisor: Michael M. Shara
- M.Phil.** Columbia University, 2003
- M.A.** Columbia University, 2001
- B.S.** The University of Michigan, 1983, with distinction

HONORS, AWARDS AND GRANTS

- 2022 *HST* GO Program “Explosions in Real-Time: Rapid UV Supernova Flash Spectroscopy”, NASA HST-GO-17205 (Co-I)
- 2020 *HST* GO Program “Galaxy Evolution in a Massive $z=2.91$ Halo Fed by Cold Accretion”, NASA HST-GO-15910.003-A (Co-I)
- 2017, 2019 *SWIFT* GO Program “Robotic Spectroscopic Followup of *SWIFT* GRBs”, NASA 80NSSC17K0308, 80NSSC19K0154
- 2012 Astrophysics Data Analysis Program “*WISE* Nearby Galaxy Atlas”, NASA NNX12AE19G (Co-I)
- 2009 *GALEX* Program GI6-056 “Extreme Hosts of Extreme Supernovae”, NASA 09-GALEX609-0029
- 2008 Group Achievement Award, Galaxy Evolution Explorer Operations Team, NASA, Jet Propulsion Laboratory
- 2000 The American Museum of Natural History Graduate Research Fellowship
- 1991 Certificate of Recognition for contributions to the Hubble Space Telescope Program, NASA, Goddard Space Flight Center
- 1991 Group Achievement Award, Hubble Space Telescope Development Team, NASA, Goddard Space flight Center

COMPUTING SKILLS

- ◇ **Programming:** Python, Java, c/c++, IDL, IRAF, Fortran, L^AT_EX.
- ◇ **Scripting:** csh, bash, awk, PHP.
- ◇ **Database:** PostgreSQL, Python/PHP/HTML web interface, backup/administration.
- ◇ **Computer Administration:** MacOS-X, Linux.
- ◇ **Network:** TCP/IP, NIS, DNS, NFS.

WORK EXPERIENCE

Research Scientist, 2012 - present, California Institute of Technology:

- Program Manager for Spectral Energy Distribution Machine (SEDM) at Kitt Peak
- Commissioning Scientist for SEDM on P60 at Palomar
- Systems Engineer for Keck DEIMOS Throughput Upgrade (DTU)
- Software consultant for the Next Generation Palomar Spectrograph (NGPS)
- Software lead for Keck Cosmic Reionization Mapper (KCRM)
- Software lead for Keck Cosmic Web Imager (KCWI)
- Software contributor for Skyportal/Fritz marshal for ZTF
- Manage software interfaces with Keck Observatory
- Develop Data Reduction Pipeline for KCWI/KCRM
- Produce *WISE* calibration for Tully-Fisher Relation

Senior Postdoctoral Scholar, 2006 - 2012, California Institute of Technology:

- Coordinate collaborations in support of *GALEX* post-NASA operations
- Chairman of *GALEX* Time Domain Science Working Group
- Draft Memoranda of Understanding between *GALEX* and other time domain surveys
- Use *GALEX* data to connect supernovae and galaxy evolution
- Analyze UV-emitting ISM-stellar wind interactions discovered with *GALEX*
- Produce spectroscopic calibration for *GALEX* grism mode

Supernova Legacy Survey Post-Doc, 2004 - 2006, The University of Victoria:

- Assist in the determination of cosmological parameters using Type Ia supernovae
- Estimate the effect of local peculiar velocities on Type Ia supernova cosmology
- Calculate the cosmic Type Ia supernova rate using the SNLS
- Evaluate sources of systematic errors in Type Ia supernova rates
- Compare observed rates with models for Type Ia supernova production
- Member, SNLS 1% calibration working group
- Calculate chip-to-chip zero point and color term variation in CFHT Megacam mosaic.

AMNH Research Fellow, 2000 - 2004, The American Museum of Natural History:

- Conduct long-term synoptic studies of M81 and other nearby galaxies
- Extract individual nova properties, nova rates and nova spatial distributions
- Compare these with theoretical predictions based on physics of known progenitors
- Survey the Fornax Cluster for intra-cluster novae and measure the ICL
- Determine first orbital period for a Dwarf Nova in a globular cluster (M5V101).

Graduate Research Fellow, 1999, Columbia University:

- Acquire, reduce and analyze multi-object spectra of galaxy cluster Abell 262
- Use archival X-ray data to determine gas profile and cluster temperature
- Derive radial velocity dispersion profile, anisotropy parameter, and virial mass.

Consultant, Calypso Observatory, 1994-2003.

- Develop operator interface for a 1.2 meter adaptive optics telescope
- Implement software tools needed to support astronomical observation
- Maintain computer and network infrastructure for telescope operations
- Maintain telescope documentation web site.

Research Associate, Columbia University Astrophysics Laboratory, 1994-1999.

- Design and implement IDL databases of FIRST survey data
- Use databases to check FIRST survey for consistency and probe for source variability
- Conduct stellar populations research with HST and ground-based image data
- Provide software and hardware support for department Unix machines
- Manage the computer network at the Columbia Astrophysics Lab at Nevis
- Develop visual display of data for LXe-GRIT balloon-borne γ -ray observatory
- Simulate observations by Next Generation Space Telescope of halo of M31.

Systems Programmer, Johns Hopkins University, 1992-1993.

- Provide astronomical software support for the FOS Instrument Design Team
- Manage cluster of 15 Sun SPARCstations and one file server
- Manage TCP/IP, DNS, NIS, NFS configuration for cluster.

Research Associate, Advanced Computer Concepts, Inc., 1989-1992.

- Produce photometric calibration of the Faint Object Spectrograph on HST
- Implement optimal extraction software for IUE final archive project
- Develop crowded field photometry technique for HST image data on CRAY-YMP
- Develop a status display system for HST on a microcomputer in 'c'
- Maintain and augment IDL library routines used by astronomical community.

Science Data Analyst Coordinator, Space Telescope Science Institute, 1988-1989.

- Manage and develop training program for 15 Science Data Analysts
- Member, ST ScI Science Computing Advisory Committee
- Member, Proposal Processing Test Committee
- Conduct an orbit site study for the Next Generation Space Telescope.

Research Assistant, Space Telescope Science Institute, 1984-1988.

- Perform image analysis and photometry of CCD surveys of Local Group galaxies
- Develop IDL software for nova and PN detection with narrow-band imaging surveys
- Develop technique for measuring point sources against varying backgrounds
- Modify FORTRAN optimal extraction code to work with IUE data
- Develop a model for the emission line profile of expanding nova shells.

Programmer II, Space Physics Research Laboratory, University of Michigan, 1983-1984.

- Develop the system used to acquire NAC Spectrometer data from a national database
- Write graphics routines in FORTRAN for producing color plots of DE 2 Satellite data.

COMPETITIVELY AWARDED OBSERVING TIME

◇ **As P.I.**

2009-2010	<i>GALEX</i> Program GI6-056 (80ks)
2007-2009	Keck 10m Telescope, Keck Observatory (3 nights + 10×1hr TOO)
2008-2010	Hale 5m Telescope, Palomar Observatory (4 nights)
2004-2005	Mayall 4m Telescope, Kitt Peak Observatory (4 nights)
2001-2002	Hiltner 2.4m Telescope, MDM Observatory (12 nights)

◇ **As Co-I.**

2016-2022	<i>HST</i> GO Programs 14618, 15644, 15910, and 17205 (137 orbits)
2007-2010	<i>GALEX</i> Programs GI4-091, GI5-021, GI6-042, and GI6-057 (219ks)
2010	Hale 5m Telescope, Palomar Observatory (2 nights)
2007	Gemini 8m Telescope (60 hours, band 1)

TEACHING & MENTORING

Mentor. 2021-2022, California Institute of Technology
Palomar Operations Manager.

Mentor. 2021-2022, California Institute of Technology
ZTF Post-baccalaureate Program.

Mentor. Summer, 2010, California Institute of Technology
Summer Undergraduate Research Fellowship.

Mentor. Summer, 2009, California Institute of Technology
Freshman Summer Research Institute.

Lecturer. 3 years, The American Museum of Natural History
Public course on using a telescope at Hayden Planetarium.

Teaching Assistant. 4 semesters, Columbia University
Taught laboratory sections for Astronomy undergraduate courses.

REFERENCES

References are available upon request.

PRESENTATIONS

- NASA INSPIRE WebEx Classroom.** 07 October, 2010.
Web Presentation and Discussion for High School Freshmen, “Adventures in Ultraviolet Astronomy with the Galaxy Evolution Explorer.”
- Lorentz Center, Leiden, The Netherlands.** 22 September, 2010.
Invited Conference Talk, “Local SN Ia Host Properties and Their Effects.”
- UP2010, Is there evidence for variation in the upper IMF?** 24 June, 2010.
Conference Talk, “Measuring the Upper End of the IMF with Supernovae.”
- University of California, Berkeley.** 04 December 2009.
Journal Club, “Putting SNe in Their Place.”
- San Diego State University.** 30 October 2009.
Colloquium, “UV Explorations of Galaxy Evolution.”
- Glendale Community College.** 22 September 2009.
Science Lecture, “Adventures in Ultraviolet Astronomy with GALEX.”
- Joaquin Miller Elementary School.** 23 April 2009.
Talk to 5th grade, “Adventures in Astronomy.”
- Arizona State University.** Tempe, AZ, 23 February 2009.
Colloquium, “Unravelling Mira’s Mysterious Tail.”
- Boston University.** Boston, MA, 04 December 2008.
Colloquium, “Unravelling Mira’s Mysterious Tail.”
- Los Angeles Valley College.** Van Nuys, CA, 20 April 2008.
Invited talk, “Supernova Cosmology and the Galaxy Evolution Explorer.”
- George Washington Elementary School.** Burbank, CA, 19 March, 2008.
Talk to 5th grade, “Adventures in Astronomy.”
- Columbia University.** New York, NY, 22 March 2006.
Astronomy Colloquium, “How Far and How Often: Cosmology and SN Ia Rates with the SNLS.”
- Space Telescope Science Institute.** Baltimore, MD, 20 March 2006.
Galaxies and Cosmology Lunch, “Constraining w and SN Ia Rate Evolution with the Supernova Legacy Survey.”
- Lawrence Berkeley National Laboratory.** Berkeley, CA, 17 November 2005.
Research Progress Report, “Cosmology and SN Ia Rates with the SNLS.”
- Hertzberg Institute for Astrophysics.** Victoria, BC, 20 September 2005.
Seminar, “Cosmology and SN Ia Rates with the SNLS.”

University of British Columbia. Vancouver, BC, 19 September 2005.

Colloquium, “Cosmology and SN Ia Rates with the SNLS.”

Royal Astronomical Society of Canada. Malahat, BC, 3 September 2005.

Invited talk, “Dark Energy from Exploding Stars.”

American Physical Society, NW Section Annual Meeting. Victoria, BC, 13 May 2005.

Invited talk, “Measuring Dark Energy with the Supernova Legacy Survey.”

BCNET, 5th Annual Advanced Networks Conference. Vancouver, BC, 26 April 2005.

Invited talk, “Responding to the Challenge of Dark Energy.”

SELECTED PUBLICATIONS

Rongmon Bordoloi, John M. O’Meara, Keren Sharon, Jane R. Rigby, Jeff Cooke, Ahmed Shaban, Mateusz Matuszewski, Luca Rizzi, Greg Doppmann, D. Christopher Martin, Anna M. Moore, Patrick Morrissey, and James D. Neill. “Resolving the H I in damped Lyman α systems that power star formation.” *Nature* **606**, 59–63 (2022). 2205.08554.

Noam Ganot, Eran O. Ofek, Avishay Gal-Yam, Steve Schulze, Maayane T. Soumagnac, Jonathan Morag, Eli Waxman, Shrinivas R. Kulkarni, Mansi M. Kasliwal, and James Neill. “The GALEX-PTF Experiment. II. Supernova Progenitor Radius and Energetics via Shock-cooling Modeling.” *ApJ* **931**, 71 (2022).

Y. L. Kim, M. Rigault, J. D. Neill, M. Briday, Y. Copin, J. Lezmy, N. Nicolas, R. Riddle, Y. Sharma, M. Smith, J. Sollerman, and R. Walters. “New Modules for the SEDMachine to Remove Contaminations from Cosmic Rays and Non-target Light: BYECR and CONTSEP.” *PASP* **134**, 024505 (2022). 2203.01346.

E. Daddi, R. M. Rich, F. Valentino, S. Jin, I. Delvecchio, D. Liu, V. Strazzullo, J. Neill, R. Gobat, A. Finoguenov, F. Bournaud, D. Elbaz, B. S. Kalita, D. O’Sullivan, and T. Wang. “Evidence for Cold-stream to Hot-accretion Transition as Traced by Ly α Emission from Groups and Clusters at $2 < z < 3.3$.” *ApJ* **926**, L21 (2022). 2202.03715.

Boris S. Kalita, Emanuele Daddi, Chiara D’Eugenio, Francesco Valentino, R. Michael Rich, Carlos Gómez-Guijarro, Rosemary T. Coogan, Ivan Delvecchio, David Elbaz, James D. Neill, Annagrazia Puglisi, and Veronica Strazzullo. “An Ancient Massive Quiescent Galaxy Found in a Gas-rich $z \approx 3$ Group.” *ApJ* **917**, L17 (2021). 2107.13241.

E. Daddi, F. Valentino, R. M. Rich, J. D. Neill, M. Gronke, D. O’Sullivan, D. Elbaz, F. Bournaud, A. Finoguenov, A. Marchal, I. Delvecchio, S. Jin, D. Liu, V. Strazzullo, A. Calabro, R. Coogan, C. D’Eugenio, R. Gobat, B. S. Kalita, P. Laursen, D. C. Martin, A. Puglisi, E. Schinnerer, and T. Wang. “Three Lyman- α -emitting filaments converging to a massive galaxy group at $z = 2.91$: discussing the case for cold gas infall.” *A&A* **649**, A78 (2021). 2006.11089.

- Keri Hoadley, D. Christopher Martin, Brian D. Metzger, Mark Seibert, Andrew McWilliam, Ken J. Shen, James D. Neill, Gudmundur Stefansson, Andrew Monson, and Bradley E. Schaefer. “A blue ring nebula from a stellar merger several thousand years ago.” *Nature* **587**, 387–391 (2020). 2011.09589.
- Ehsan Kourkchi, R. Brent Tully, Sarah Eftekharzadeh, Jordan Llop, H el ene M. Courtois, Daniel Guinet, Alexandra Dupuy, James D. Neill, Mark Seibert, Michael Andrews, Juana Chuang, Arash Danesh, Randy Gonzalez, Alexandria Holthaus, Amber Mokolke, Devin Schoen, and Chase Urasaki. “Cosmicflows-4: The Catalog of $\sim 10,000$ Tully-Fisher Distances.” *ApJ* **902**, 145 (2020). 2009.00733.
- Patrick Hartigan, Lynne A. Hillenbrand, Mateusz Matuszewski, Arlindo Chan Borges, James D. Neill, D. Christopher Martin, Patrick Morrissey, and Anna M. Moore. “Emission-line Data Cubes of the HH 32 Stellar Jet.” *AJ* **160**, 165 (2020). 2008.03466.
- Ehsan Kourkchi, R. Brent Tully, Gagandeep S. Anand, H el ene M. Courtois, Alexandra Dupuy, James D. Neill, Luca Rizzi, and Mark Seibert. “Cosmicflows-4: The Calibration of Optical and Infrared Tully-Fisher Relations.” *ApJ* **896**, 3 (2020). 2004.14499.
- C. Fremling, A. A. Miller, Y. Sharma, A. Dugas, D. A. Perley, K. Taggart, J. Sollerman, A. Goobar, M. L. Graham, J. D. Neill, J. Nordin, M. Rigault, R. Walters, I. Andreoni, A. Bagdasaryan, J. Belicki, C. Cannella, E. C. Bellm, S. B. Cenko, K. De, R. Dekany, S. Frederick, V. Z. Golkhou, M. J. Graham, G. Helou, A. Y. Q. Ho, M. M. Kasliwal, T. Kupfer, R. R. Laher, A. Mahabal, F. J. Masci, R. Riddle, B. Rusholme, S. Schulze, D. L. Shupe, R. M. Smith, S. van Velzen, Lin Yan, Y. Yao, Z. Zhuang, and S. R. Kulkarni. “The Zwicky Transient Facility Bright Transient Survey. I. Spectroscopic Classification and the Redshift Completeness of Local Galaxy Catalogs.” *ApJ* **895**, 32 (2020). 1910.12973.
- Donal B. O’Sullivan, Christopher Martin, Mateusz Matuszewski, Keri Hoadley, Erika Hamden, James D. Neill, Zeren Lin, and Prachi Parihar. “The FLASHES Survey. I. Integral Field Spectroscopy of the CGM around 48 $z \approx 2.3$ -3.1 QSOs.” *ApJ* **894**, 3 (2020). 1911.10740.
- Ehsan Kourkchi, R. Brent Tully, J. Don Neill, Mark Seibert, H el ene M. Courtois, and Alexandra Dupuy. “Global Attenuation in Spiral Galaxies in Optical and Infrared Bands.” *ApJ* **884**, 82 (2019). 1909.01572.
- M. Rigault, J. D. Neill, N. Blagorodnova, A. Dugas, M. Feeney, R. Walters, V. Brinnel, Y. Copin, C. Fremling, J. Nordin, and J. Sollerman. “Fully automated integral field spectrograph pipeline for the SEDMachine: pysedm.” *A&A* **627**, A115 (2019). 1902.08526.
- Qiong Li, Zheng Cai, J. Xavier Prochaska, Fabrizio Arrigoni Battaia, R. J. Ivison, Edith Falgarone, Sebastiano Cantalupo, Mateusz Matuszewski, James Don Neill, Ran Wang, Chris Martin, and Anna Moore. “Discovery of a Ly α -emitting Dark Cloud within the $z \sim 2.8$ SMM J02399-0136 System.” *ApJ* **875**, 130 (2019). 1903.03131.

- Patrick Morrissey, Mateusz Matuszewski, D. Christopher Martin, James D. Neill, Harland Epps, Jason Fucik, Bob Weber, Behnam Darvish, Sean Adkins, Steve Allen, Randy Bartos, Justin Belicki, Jerry Cabak, Shawn Callahan, Dave Cowley, Marty Crabill, William Deich, Alex Delecroix, Greg Doppman, David Hilyard, Ean James, Steve Kaye, Michael Kokorowski, Shui Kwok, Kyle Lanclos, Steve Milner, Anna Moore, Donal O’Sullivan, Prachi Parihar, Sam Park, Andrew Phillips, Luca Rizzi, Constance Rockosi, Hector Rodriguez, Yves Salaun, Kirk Seaman, David Sheikh, Jason Weiss, and Ray Zarzaca. “The Keck Cosmic Web Imager Integral Field Spectrograph.” *ApJ* **864**, 93 (2018). 1807.10356.
- Nadejda Blagorodnova, James D. Neill, Richard Walters, Shrinivas R. Kulkarni, Christoffer Fremling, Sagi Ben-Ami, Richard G. Dekany, Jason R. Fucik, Nick Konidaris, Reston Nash, Chow-Choong Ngeow, Eran O. Ofek, Donal O’ Sullivan, Robert Quimby, Andreas Ritter, and Karl E. Vyhmeister. “The SED Machine: A Robotic Spectrograph for Fast Transient Classification.” *PASP* **130**, 035003 (2018). 1710.02917.
- Michael M. Shara, Trisha F. Doyle, Tod R. Lauer, David Zurek, J. D. Neill, Juan P. Madrid, Joanna Mikolajewska, D. L. Welch, and Edward A. Baltz. “A Hubble Space Telescope Survey for Novae in M87. I. Light and Color Curves, Spatial Distributions, and the Nova Rate.” *ApJS* **227**, 1 (2016). 1602.00758.
- Lea M. Z. Hagen, Mark Seibert, Alex Hagen, Kristina Nyland, James D. Neill, Marie Treyer, Lisa M. Young, Jeffrey A. Rich, and Barry F. Madore. “On the Classification of UGC 1382 as a Giant Low Surface Brightness Galaxy.” *ApJ* **826**, 210 (2016). 1607.02147.
- D. Christopher Martin, Mateusz Matuszewski, Patrick Morrissey, James D. Neill, Anna Moore, Charles C. Steidel, and Ryan Trainor. “A Newly Forming Cold Flow Protogalactic Disk, a Signature of Cold Accretion from the Cosmic Web.” *ApJ* **824**, L5 (2016).
- C. Curtin, A. W. Shafter, C. J. Pritchett, J. D. Neill, A. Kundu, and T. J. Maccarone. “Exploring the Role of Globular Cluster Specific Frequency on the Nova Rates in Three Virgo Elliptical Galaxies.” *ApJ* **811**, 34 (2015). 1508.03319.
- Po-Feng Wu, Rolf-Peter Kudritzki, R. Brent Tully, and J. D. Neill. “The Influence of Galaxy Surface Brightness on the Mass-Metallicity Relation.” *ApJ* **810**, 151 (2015). 1508.00015.
- D. Christopher Martin, Mateusz Matuszewski, Patrick Morrissey, James D. Neill, Anna Moore, Sebastiano Cantalupo, J. Xavier Prochaska, and Daphne Chang. “A giant protogalactic disk linked to the cosmic web.” *Nature* **524**, 192–195 (2015).
- Z. Zheng, E. O. Ofek, S. R. Kulkarni, J. D. Neill, and M. Juric. “Probing the Intergalactic Medium with Fast Radio Bursts.” *ApJ* **797**, 71 (2014). 1409.3244.
- S. R. Kulkarni, E. O. Ofek, J. D. Neill, Z. Zheng, and M. Juric. “Giant Sparks at Cosmological Distances?” *ApJ* **797**, 70 (2014). 1402.4766.

- J. G. Sorce, R. B. Tully, H. M. Courtois, T. H. Jarrett, J. D. Neill, and E. J. Shaya. “From Spitzer Galaxy photometry to Tully-Fisher distances.” *MNRAS* **444**, 527–541 (2014). 1408.0729.
- J. D. Neill, Mark Seibert, R. Brent Tully, H el ene Courtois, Jenny G. Sorce, T. H. Jarrett, Victoria Scowcroft, and Frank J. Masci. “The Calibration of the WISE W1 and W2 Tully-Fisher Relation.” *ApJ* **792**, 129 (2014). 1407.7528.
- Y. Hillman, D. Prialnik, A. Kovetz, M. M. Shara, and J. D. Neill. “Nova multiwavelength light curves: predicting UV precursor flashes and pre-maximum halts.” *MNRAS* **437**, 1962–1975 (2014).
- S. M. Petty, J. D. Neill, T. H. Jarrett, A. W. Blain, D. G. Farrah, R. M. Rich, C. W. Tsai, D. J. Benford, C. R. Bridge, S. E. Lake, F. J. Masci, and E. L. Wright. “UV-bright Nearby Early-type Galaxies Observed in the Mid-infrared: Evidence for a Multi-stage Formation History by Way of WISE and GALEX Imaging.” *AJ* **146**, 77 (2013). 1307.6282.
- S. Gezari, D. C. Martin, K. Forster, J. D. Neill, M. Huber, T. Heckman, L. Bianchi, P. Morrissey, S. G. Neff, M. Seibert, D. Schiminovich, T. K. Wyder, W. S. Burgett, K. C. Chambers, N. Kaiser, E. A. Magnier, P. A. Price, and J. L. Tonry. “The GALEX Time Domain Survey. I. Selection and Classification of Over a Thousand Ultraviolet Variable Sources.” *ApJ* **766**, 60 (2013). 1302.1581.
- Elisabeth Krause, Christopher M. Hirata, Christopher Martin, James D. Neill, and Ted K. Wyder. “Halo occupation distribution modelling of green valley galaxies.” *MNRAS* **428**, 2548–2564 (2013). 1208.6139.
- Michael M. Shara, Trisha Mizusawa, Peter Wehinger, David Zurek, Christopher D. Martin, James D. Neill, Karl Forster, and Mark Seibert. “AT Cnc: A Second Dwarf Nova with a Classical Nova Shell.” *ApJ* **758**, 121 (2012). 1208.1280.
- Michael M. Shara, Trisha Mizusawa, David Zurek, Christopher D. Martin, James D. Neill, and Mark Seibert. “The Inter-eruption Timescale of Classical Novae from Expansion of the Z Camelopardalis Shell.” *ApJ* **756**, 107 (2012). 1205.3531.
- K. Perrett, M. Sullivan, A. Conley, S. Gonz alez-Gait an, R. Carlberg, D. Fouchez, P. Ripoche, J. D. Neill, P. Astier, D. Balam, C. Balland, S. Basa, J. Guy, D. Hardin, I. M. Hook, D. A. Howell, R. Pain, N. Palanque-Delabrouille, C. Pritchet, N. Regnault, J. Rich, V. Ruhlmann-Kleider, S. Baumont, C. Lidman, S. Perlmutter, and E. S. Walker. “Evolution in the Volumetric Type Ia Supernova Rate from the Supernova Legacy Survey.” *AJ* **144**, 59 (2012). 1206.0665.
- Yi Cao, Mansi M. Kasliwal, James D. Neill, S. R. Kulkarni, Yu-Qing Lou, Sagi Ben-Ami, Joshua S. Bloom, S. Bradley Cenko, Nicholas M. Law, Peter E. Nugent, Eran O. Ofek, Dovi Poznanski, and Robert M. Quimby. “Classical Novae in Andromeda: Light Curves from the Palomar Transient Factory and GALEX.” *ApJ* **752**, 133 (2012). 1201.2393.

- S. Gezari, R. Chornock, A. Rest, M. E. Huber, K. Forster, E. Berger, P. J. Challis, J. D. Neill, D. C. Martin, T. Heckman, A. Lawrence, C. Norman, G. Narayan, R. J. Foley, G. H. Marion, D. Scolnic, L. Chomiuk, A. Soderberg, K. Smith, R. P. Kirshner, A. G. Riess, S. J. Smartt, C. W. Stubbs, J. L. Tonry, W. M. Wood-Vasey, W. S. Burgett, K. C. Chambers, T. Grav, J. N. Heasley, N. Kaiser, R. P. Kudritzki, E. A. Magnier, J. S. Morgan, and P. A. Price. “An ultraviolet-optical flare from the tidal disruption of a helium-rich stellar core.” *Nature* **485**, 217–220 (2012). 1205.0252.
- Raghvendra Sahai, James D. Neill, Armando Gil de Paz, and Carmen Sánchez Contreras. “Strong Variable Ultraviolet Emission from Y Gem: Accretion Activity in an Asymptotic Giant Branch Star with a Binary Companion?” *ApJ* **740**, L39 (2011). 1108.3597.
- J. E. Krick, C. Bridge, V. Desai, J. C. Mihos, E. Murphy, C. Rudick, J. Surace, and J. Neill. “Spitzer/IRAC Low Surface Brightness Observations of the Virgo Cluster.” *ApJ* **735**, 76 (2011). 1104.3612.
- Boryana V. Efremova, Luciana Bianchi, David A. Thilker, James D. Neill, Denis Burgarella, Ted K. Wyder, Barry F. Madore, Soo-Chang Rey, Tom A. Barlow, Tim Conrow, Karl Forster, Peter G. Friedman, D. Christopher Martin, Patrick Morrissey, Susan G. Neff, David Schiminovich, Mark Seibert, and Todd Small. “The Recent Star Formation in NGC 6822: An Ultraviolet Study.” *ApJ* **730**, 88 (2011). 1101.6051.
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