

Dr. Adam C. Schneider

CONTACT INFORMATION

School of Earth and
Space Exploration
Arizona State University
Tempe, AZ 85287

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Website: adamcschneider.com

RESEARCH INTERESTS

- Low-Mass Stars and Brown Dwarfs
- Extrasolar Planets
- Circumstellar Disks

EMPLOYMENT HISTORY

Arizona State University
Post-doctoral Researcher

Tempe, AZ USA
August 2016–present

- Supervisor: Dr. Evgenya Shkolnik

University of Toledo
Post-doctoral Researcher

Toledo, Ohio USA
June 2013–July 2016

- Supervisor: Dr. Michael C. Cushing

EDUCATION

University of Georgia

Athens, Georgia USA

Ph.D., Astronomy, May, 2013

- Dissertation Topic: “Young Nearby Stars”
- Advisor: Dr. Inseok Song

University of Georgia

Athens, Georgia USA

M.S., Astronomy, August, 2008

B.S., Physics & Astronomy, May, 2006

HONORS AND AWARDS

Advanced Leadership Academy, University of Toledo, 2016

Dissertation Completion Award, University of Georgia, 2012

Outstanding Teaching Assistant, University of Georgia, 2008

Future Faculty Program, University of Georgia, 2008

Undergraduate Physics & Astronomy Award, University of Georgia, 2006

REFEREED PUBLICATIONS (FIRST AUTHOR)

1. *Spitzer Light Curves of the Young, Planetary-Mass TW Hya Members 2MASS J11193254–1137466AB and WISEA J114724.10–204021.3*

Schneider, A. C., Hardegree-Ullman, K. K., Cushing, M. C., Kirkpatrick, J. D., & Shkolnik, E. L., 2018, *AJ*, 155, 238

2. *HAZMAT III: The Evolution of Mid- to Late-M Stars with GALEX*

Schneider, A. C., & Shkolnik, E. L., 2018, *AJ*, 155, 122

3. *A 2MASS/AllWISE Search for Extremely Red L Dwarfs – The Discovery of Several Likely L Type Members of β Pic, AB Dor, Tuc-Hor, Argus, and the Hyades*

Schneider, A. C., Windsor, J., Cushing, M. C., & Kirkpatrick, J. D., 2017, *AJ*, 153, 196

4. *The Collapse of the Wien Tail in the Coldest Brown Dwarf? Hubble Space Telescope Near-Infrared Photometry of WISE J085510.83–071442.5*

Schneider, A. C., Cushing, M. C., Kirkpatrick, J. D., & Gelino, C. R., 2016, *ApJL*, 823, 35

5. *WISEA J114724.10-204021.3: A Free-Floating Planetary Mass Member of the TW Hya Association*
Schneider, A. C., Windsor, J., Cushing, M. C., Kirkpatrick, J. D., & Wright, E. L., 2016, *ApJL*, 822, 1
 6. *A Proper Motion Survey Using the First Sky Pass of NEOWISE-Reactivation Data*
Schneider, A. C., Greco, J., Cushing, M. C., Kirkpatrick, J. D., Mainzer, A., Gelino, C. R., Fajardo-Acosta, S., & Bauer, J., 2016, *ApJ*, 817, 112
 7. *Hubble Space Telescope Spectroscopy of Brown Dwarfs Discovered with the Wide-field Infrared Survey Explorer*
Schneider, A. C., Cushing, M. C., Kirkpatrick, J. D., Gelino, C. R., Mace, G. N., Wright, E. L., Eisenhardt, P. R., Skrutskie, M. F., Griffith, R. L., & Marsh, K. A., 2015, *ApJ*, 804, 92
 8. *Discovery of the Young L Dwarf WISE J174102.78–464225.5*
Schneider, A. C., M. C. Cushing, J. D. Kirkpatrick, G. N. Mace, C. R. Gelino, J. K. Faherty, S. Fajardo-Acosta, & S. S. Sheppard, 2014, *AJ*, 147, 34
 9. *The Nearby, Young, Isolated, Dusty Star HD 161991*
Schneider, A. C., Song, I., Melis, C., Zuckerman, B., Bessell, M., & Huford, T., 2013, *ApJ*, 777, 78
 10. *Identifying Nearby, Young, Late-type Stars by Means of Their Circumstellar Disks*
Schneider, A. C., Song, I., Melis, C., Zuckerman, B., & Bessell, M., 2012, *ApJ*, 757, 163
 11. *TW Hya Association Membership and New WISE-detected Circumstellar Disks*
Schneider, A. C., Melis, C., & Song, I., 2012, *ApJ*, 754, 39
 12. *Hunting the Coolest Dwarfs: Methods and Early Results*
Schneider, A. C., Melis, C., Song, I., & Zuckerman, B., 2011, *ApJ*, 743, 109
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- ADDITIONAL
REFEREED
PUBLICATIONS
1. *GPI Spectra of HR 8799 c, d, and e from 1.5 to 2.4 μm with KLIP Forward Modeling*
Greenbaum, A., Pueyo, L., Ruffio, J., et al. **Schneider 46th author**, 2018, *AJ*, 155, 226
 2. *Wolf 1130: A Nearby Triple System Containing a Cool, Ultramassive White Dwarf*
Mace, G., Mann, A., Skiff, B., Sneden, C., Kirkpatrick, J., **Schneider, A. C.**, et al., 2018, *ApJ*, 854, 145
 3. *Automated data processing architecture for the Gemini Planet Imager Exoplanet Survey*
Wang, J., Perrin, M., Savransky, D., et al. **Schneider 45th author**, 2018, *JATIS*, 4, 018002
 4. *Evidence that the Directly-Imaged Planet HD 131399 Ab is a Background Star*
Nielsen, E., De Rosa, R., Rameau, J., et al. **Schneider 50th author**, 2017, *AJ*, 154, 218
 5. *Improving and Assessing Planet Sensitivity of the GPI Exoplanet Survey with a Forward Model Matched Filter*
Ruffio, J., Macintosh, B., Wang, J., et al. **Schneider 44th author**, 2017, *ApJ*, 842, 14
 6. *Characterizing 51 Eri b from 1–5 μm : a partly-cloudy exoplanet*
Rajan, A., Rameau, J. B., Pueyo, L., et al. **Schneider 52nd author**, 2017, *AJ*, 154, 10
 7. *The First Brown Dwarf Discovered by the Backyard Worlds: Planet 9 Citizen Science Project*
Kuchner, M., Faherty, J., **Schneider, A. C.**, , et al., 2017, *ApJL*, 841, 19
 8. *An Optical/near-infrared investigation of HD 100546 b with the Gemini Planet Imager and MagAO*
Rameau, J., Follette, K. B., Pueyo, L., et al. **Schneider 48th author**, 2017, *AJ*, 153, 244
 9. *Complex Spiral Structure in the HD 100546 Transitional Disk as Revealed by GPI and MagAO*

- Follette, K. B., Rameau, J., Dong, R., et al. **Schneider 47th author**), 2017, AJ, 153, 264
10. *Orbits for the Impatient: A Bayesian Rejection Sampling Method for Quickly Fitting the Orbits of Long-Period Exoplanets*
Blunt, S., Nielsen, E. L., De Rosa, R. J., Konopacky, Q. M., Ryan, D., Wang, J. J., Pueyo, L., Rameau, J., Marois, C., Marchis, F., Macintosh, B., Graham, J. R., Duchene, G., & **Schneider, A. C.**, 2017, AJ, 153, 229
11. *Integral Field Spectroscopy of the Low-Mass Companion HD984B with the Gemini Planet Imager*
Johnson-Groh, M., Marois, C., De Rosa, R. J., et al. (**Schneider 42nd Author**), 2017, AJ, 153, 190
12. *1 to 2.4 micron Near-IR spectrum of the Giant Planet β Pictoris b obtained with the Gemini Planet Imager*
Chilcote, J., Pueyo, L., De Rosa, R. J., et al. (**Schneider 55th Author**), 2017, AJ, 153, 182
13. *Dynamical Mass Measurement of the Young Spectroscopic Binary V343 Norma AaAb Resolved with the Gemini Planet Imager*
Nielsen, E. L., De Rosa, R. J., Want, J., et al. (**Schneider 40th Author**), 2016, AJ, 152, 175
14. *Discovery of a Possible Cool White Dwarf Companion from the AllWISE Motion Survey*
Farjardo-Acosta, S. B., Kirkpatrick, J. D., **Schneider, A. C.**, et al., 2016, ApJ, 832, 62
15. *Photometric Monitoring of the Coldest Known Brown Dwarf with the Spitzer Space Telescope*
Espinoza, T., Luhman, K., Cushing, M., Hardegree-Ullman, K., Trucks, J., Burgasser, A., & **Schneider, A. C.**, 2016, ApJ, 832, 58
16. *Imaging an 80 AU Radius Dust Ring Around the F5V Star HD 157587*
Millar-Blanchaer, M., Wang, J., Kalas, P., et al. (**Schneider 49th Author**), 2016, AJ, 152, 128
17. *Discovery of a Substellar Companion to the Nearby Debris Disk Host HR 2562*
Konopacky, Q., Rameau, J., Duchene, G., et al. (**Schneider 49th Author**), 2016, ApJL, 829, 4
18. *Herschel Observations of Dusty Debris Disks*
Vican, L., **Schneider, A. C.**, Bryden, G., Melis, C., Zuckerman, B., Rhee, J., & Song, I., 2016, ApJ, 833, 263
19. *The AllWISE Motion Survey, Part 2*
Kirkpatrick, J. D., Kellogg, K., **Schneider, A. C.**, Fajardo-Acosta, S., Cushing, M. C., et al., 2016, ApJS, 224, 36
20. *Astrometric Confirmation and Preliminary Orbital Parameters of the Young Exoplanet 51 Eridani b with the Gemini Planet Imager*
De Rosa, R., Nielsen, E., Blune, S., et al. (**Schneider 44th Author**), 2016, ApJL, 814, 3
21. *Direct imaging of an asymmetric debris disk in the HD 106906 planetary system*
Kalas, P. G., Rajan, A., Wang, J. J., et al. (**Schneider 48th Author**), 2015, ApJ, 814, 32
22. *An ALMA Survey for Disks Orbiting Low-Mass Stars in the TW Hya Association*
Rodriguez, D. R., van der Plas, G., Kastner, J. H., **Schneider, A. C.**, Faherty, J. F., Mardones, D., Mohanty, S., & Principe, D., 2015, A&A, 582, 5
23. *β Pictoris' inner disk in polarized light and new orbital parameters for β Pictoris b*
Millar-Blanchaer, M. A., Graham, J. R., Pueyo, L., et al. (**Schneider 48th Author**), 2015, ApJ, 811, 18
24. *Discovery and spectroscopy of the young Jovian planet 51 Eri b with the Gemini Planet Imager*
Macintosh, B., Graham, J. R., Barman, T., et al. (**Schneider 78th author**) 2015, Science, 350, 64

25. *The AllWISE Motion Survey and the Quest for Cold Subdwarfs*
Kirkpatrick, J. D., **Schneider, A. C.**, Fajardo-Acosta, S., Gelino, C. R., Mace, G. N., et al., 2014, ApJ, 783, 122
26. *The VAST Survey III. The Multiplicity of A-type Stars within 75 pc*
De Rosa, R. J., Patience, J., Wilson, P. A., **Schneider, A. C.**, Wiktorowicz, S., Vigan, A., Marois, C., Song, I., Macintosh, B., Graham, J. R., Doyon, R., Bessell, M. S., Thomas, S., & Lai, O., 2014, MNRAS, 437, 1216
27. *The Evolution of Dusty Debris Disks around Solar Type Stars*
Vican, L. & **Schneider, A. C.**, 2014, ApJ, 780, 154
28. *Young Stars Near Earth: The Octans-Near Association and Castor Moving Group*
Zuckerman, B., Vican, L., Song, I., & **Schneider, A. C.**, 2013, ApJ, 778, 5
29. *Discovery of the Y1 Dwarf WISE J064723.23–623235.5*
Kirkpatrick, J. D., Cushing, M. C., Gelino, C. R., Beichman, C. A., Tinney, C. G., Faherty, J. K., **Schneider, A. C.**, & Mace, G. N., 2013, ApJ, 776, 138
30. *Submillimeter Observations of IRAS and WISE Debris Disk Candidates*
Bulger, J., Hufford, T., **Schneider, A. C.**, Song, I., De Rosa, R., Rajan, A., Dowell, C. D., McCarthy, D., & Kulesa, C., 2013, A&A, 556, 119
31. *Stellar Membership and Dusty Debris Disks in the α Persei Cluster*
Zuckerman, B., Melis, C., Rhee, J. H., **Schneider, A. C.**, & Song, I., 2012, ApJ, 752, 58
32. *The VAST Survey II. Orbital motion monitoring of A-type star multiples*
De Rosa, R. J., Patience, J., Vigan, A., Wilson, P. A., **Schneider, A. C.**, McConnell, N. J., Wiktorowicz, S., Marois, C., Song, I., Macintosh, B., Graham, J. R., Bessell, M. S., Doyon, R., & Lai, O., 2012, MNRAS, 422, 2765
33. *The VAST Survey - I. Companions and the unexplained X-ray emission from nearby B6-A7 stars*
De Rosa, R. J., Bulger, J., Patience, J., Leland, B., Macintosh, B., **Schneider, A. C.**, Song, I., Marois, C., Graham, J. R., Bessell, M., & Doyon, R., 2011, MNRAS, 415, 854

TEACHING &
MENTORING
EXPERIENCE

GRSC 7770: Graduate Teaching Assistant Seminar - Instructor of Record Fall 2008

Head Laboratory Instructor Fall 2008 - Spring 2009
Duties included shared administrative responsibilities with faculty instructor, fielding of all student inquiries, and oversight of graduate student teaching assistants and graders.

Teaching Assistant Fall 2006 - Spring 2008, Fall 2012, Spring 2013
Introductory physics and astronomy laboratories at the University of Georgia.

Mentor: Graduate Student Research

- Tyler Richey-Yowell – Fall 2017–Present
- Joe Zalesky – Spring 2017–Present
- Jennifer Greco – Fall 2014–Present

Mentor: Undergraduate Student Research

- James Windsor – Winter 2014–Summer 2016
- Erik Dennihy – Summer 2010, Fall 2011, and Spring 2012

– Dicy Saylor – Fall 2010

Mentor: High-School Student Research (University of Georgia Young Dawgs Program)

– Kurt Mueller – Spring 2011

– Kevin Wen – Fall 2010

– Patrick Joyner – Summer 2010

– Andy Kim – Summer 2009

– Arianna Kazez – Fall 2009

SUCCESSFUL
OBSERVING
PROPOSALS (AS PI)

Hubble Space Telescope/STIS – Cycle 25 (PID: 15286, 14 orbits – \$103k)
“Unobstructed Observations of the Intrinsic Lyman-alpha Emission of Low-mass Stars”

Hubble Space Telescope/WFC3 – Cycle 23 (PID: 14233, 13 orbits – \$58k)
“Taming the Tepid Three”

Spitzer/IRAC – Cycle 13 (PID: 13018, 41 hours)
“Probing Cloud-driven Variability on two of the Youngest, Lowest-Mass Brown Dwarfs in the Solar Neighborhood”

2012B – Australian National University 2.3-m Telescope/WiFeS (2 nights)
“Identifying Young, Nearby, Late-type Stars by Means of Their Circumstellar Disks”

2014A – Palomar Observatory 200-in Telescope/Double-Spectrograph (3 nights)
“Classifying Overlooked Low-mass Members of the Solar Neighborhood”

2016A – NASA Infrared Telescope Facility/SpEx (2 nights)
“Young Brown Dwarfs in the Solar Neighborhood”

2016A – NASA Infrared Telescope Facility/SpEx (3 nights)
“Characterizing Discoveries from the NEOWISE Proper Motion Survey”

2016A – Discovery Channel Telescope/Deveny Spectrograph (2 nights)
“Characterizing Discoveries from the NEOWISE Proper Motion Survey”

2016B – NASA Infrared Telescope Facility/SpEx (1.5 nights)
“Young Planetary Mass Objects in the Solar Neighborhood”

2016B – Magellan/Baade (2 nights)
“Giant Exoplanet Analogs in the Solar Neighborhood”

2016B – CTIO/ARCoIRIS (2 nights)
“Exoplanet Analogs in the Solar Neighborhood”

POSTERS &
PRESENTATIONS

HAZMAT III: The Evolution of Mid-Type M Dwarfs with GALEX (Contributed Talk)
Habitable Worlds, Laramie, WY, November 2017

The UV Evolution of Mid-Type M Dwarfs with GALEX (Poster)
Know Thy Star–Know Thy Planet, Pasadena, CA, October 2017

The Evolution of High-Energy Environments of Low-Mass Stars and Their Planets (Contributed Talk)
AbSciCon, Mesa Convention Center, Mesa, AZ, April 2017

Glimpsing Alien Worlds (TEDx Talk)
Way Public Library, Perrysburg, OH, Mar. 2016

The WISE Quest for Solar Neighbors and the Coldest Brown Dwarfs (Colloquium)
The University of Toledo, March 2016

The WISE Quest for Solar Neighbors and the Coldest Brown Dwarfs (Colloquium)
Lowell Observatory, February 2016

The WISE Quest for Solar Neighbors and the Coldest Brown Dwarfs (Colloquium)
The University of Rochester, November 2015

Hubble Space Telescope Spectroscopy of Brown Dwarfs Discovered with the Wide-field Infrared Survey Explorer (Contributed Talk)
Emerging Research in Exoplanet Science Symposium, Penn State University, May 2015

The Young, Nearby L Dwarf WISE J174102.78–464225.5 (Poster)
IAU Symposium 314: Young Stars and Planets Near the Sun, Georgia State University, May 2015

The NEOWISE-Reactivation Proper Motion Survey: First Results (Contributed Talk)
WISEat5, California Institute of Technology, February 2015

Hubble Space Telescope Grism Spectroscopy of WISE-detected Brown Dwarfs (Poster)
Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun 18, Flagstaff, AZ, June 2014

Status of the AllWISE Motion Survey (Contributed Talk)
WISE Science Meeting, Infrared Processing and Analysis Center, September 2013

A Study of WISE Detected Debris Disks Around FGK Stars in UCL/LCC (Contributed Talk)
American Astronomical Society, 221st Meeting; January 2013

Gemini Planet Imager Target Preparation (Contributed Talk)
Gemini Planet Imager Science Meeting, Dunlap Institute for Astronomy and Astrophysics, June 2012

Do Massive Primordial Disks Evolve Into Massive Debris Disks? (Poster)
American Astronomical Society, 215th Meeting; January 2010

Best Teaching Practices For Undergraduates (Invited Talk)
Teaching Assistant Orientation, The University of Georgia, August 2009

SERVICE & ACTIVITIES

NASA Review Panel **2017**

Hubble Space Telescope Mid-Cycle Reviewer **2016, 2017, 2018**

Hubble Space Telescope Cycle 24 Review Panel **2016**

Referee **2014–present**
Monthly Notices of the Royal Astronomical Society, the Astrophysical Journal, the Astrophysical Journal Letters

TAC Member – University of Toledo DCT Allocation **Fall 2014–Summer 2016**
Member of the Telescope Allocation Committee for the Discovery Channel Telescope

Co-Creator – Ritter Symposium **Fall 2013**

Co-created and organized the first and second internal astronomical symposiums in the Department of Physics & Astronomy at the University of Toledo.