Evan Schneider

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Education

Steward Observatory, The University of Arizona, Tucson, AZ – PhD in Astronomy
Expected Graduation: August 2017

Bryn Mawr College, Bryn Mawr, PA – BA in Mathematics & Physics
Graduated: May 2010 *with Honors in Physics*, summa cum laude

E.C. Glass High School, **Lynchburg, VA**
Graduated: June 2006

Central Virginia Governor's School (CVGS) for Science and Technology, Lynchburg, VA
Graduated: June 2006

Employment and Research Experience

Ph.D. Candidate
Steward Observatory, The University of Arizona, August 2012 – Present
Advisor: Dr. Brant Robertson

Masters Student
Steward Observatory, The University of Arizona, August 2010 – August 2012
Advisor: Dr. Chris Impey

Undergraduate Research Student in Physics
Bryn Mawr College, September 2009 – May 2010
Advisor: Dr. Peter Beckmann

Smithsonian Astrophysical Observatory REU
Harvard-Smithsonian Center for Astrophysics, June 2009 – August 2009
Advisors: Dr. Andrea Dupree, Dr. Nancy Brickhouse

National Radio Astronomy Observatory REU
National Radio Astronomy Observatory, Charlottesville, VA, June 2008 – August 2008
Advisor: Dr. Scott Ransom

Honors & Awards

University of Arizona College of Science Graduate Student Research Prize, 2015
This annual prize is awarded to a single graduate student in the College of Science for excellence in research at the University of Arizona.

Theoretical Astrophysics Program Graduate Student Research Prize, 2014
This biennial prize is awarded for the best recent paper on a theoretical astrophysics topic by a graduate student at the University of Arizona.

NSF Graduate Research Fellowship, 2011
The NSF Graduate Research Fellowship Program recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based master's and doctoral degrees at accredited United States institutions.

Gertrude Slaughter Fellowship, 2010
This college-wide fellowship is awarded to a member of the graduating class for excellence in scholarship, and is to be used for a year's study in the United States or abroad. It is one of the top two academic honors bestowed at Bryn Mawr College.

Elizabeth S. Shippen Scholarship in Science, 2009
This Elizabeth S. Shippen Scholarship in Science is awarded to a Bryn Mawr junior each year whose major is in biology, chemistry, geology, or physics, for excellence in the study of sciences.

National Merit Scholar, 2006
Awarded to high school seniors, the national merit scholarship recognizes students that have performed exceptionally well on the PSAT, and meet published program entry/participation requirements.

Professional Activities / Outreach

Referee, The Astrophysical Journal
Space Drafts (Astronomy on Tap Tucson) Co-Organizer, Spring 2015 - present
Graduate Mentoring Program Coordinator, 2014 - present
Graduate Admissions Committee, Spring 2014
Steward Graduate Council President, 2013 - 2014
Graduate Visit Coordinator, Spring 2013
Steward Graduate Council Social Chair, 2012 - 2013
Women's Science Forum Undergraduate Mentoring Coordinator, 2011 - 2012
Graduate and Professional Student Council College of Science Representative, 2011 - 2013
Student Fees Committee Member, 2012 - 2014
Library Advisory Council Member, 2011 - 2013
Regular Author and Editorial Board Member, Astrobites Blog, 2011 - 2014
Expanding Your Horizons Science Workshop, Fall 2011, Spring 2011, Spring 2012, Fall 2013

Teaching Experience

Teaching Assistant, University of Arizona, August 2014 – December 2015
Sole teaching assistant for a ~150 student section of Astronomy 170B taught by Dr. Don McCarthy. Led study sessions, held office hours, and lectured on occasion.

Peer Tutor, Bryn Mawr College, September 2007 – May 2010
Tutored students one-on-one once or twice a week in physics or calculus.

Physics Lab TA, Bryn Mawr College, September 2007 – May 2008, September - December 2009
Monitored introductory physics lab, answering student questions, grading labs.

Recitation Leader, Bryn Mawr College, September 2008 – May 2009
Led study sessions for the undergraduate Physics 101/102 course twice a week, creating lesson plans and worksheets, and giving students one-on-one assistance when requested.

Invited Talks

NVIDIA seminar, University of Arizona, May 2015
NRL lunch talk, Naval Research Laboratory, January 2015
TAP Prize Lecture, University of Arizona, December 2014

Other Presentations

Santa Cruz Galaxy Workshop, University of California Santa Cruz, August 2015
CCAP lunch talk, The Ohio State University, April 2015

First Author Publications

Papers

Schneider, Evan E. & Robertson, Brant E. (2015). Cholla: A New Massively-Parallel Hydrodynamics Code For Astrophysical Simulation. *The Astrophysical Journal Supplement*, 217(2), 24-58.

Schneider, Evan E., Impey, C. D., Trump, J. R., & Salvato, M. (2013). Steps Toward Unveiling the True Nature of Active Galactic Nuclei: Photometric Characterization of Active Galactic Nuclei in COSMOS. *The Astrophysical Journal*, 766(2), 123-138.

Other

Abstract 435.17 at the 219th Meeting of the American Astronomical Society
Bulletin of the American Astronomical Society, Vol. 44, 2012.
Title: *Steps Toward Unveiling the True Population of AGN: Photometric Selection of Broad-line AGN*.

Abstract 429.03 at the 215th Meeting of the American Astronomical Society
Bulletin of the American Astronomical Society, Vol. 42, p. 350, 2010.
Title: *Accretion Signatures in TW Hya*.

Abstract 436.02 at the 213th Meeting of the American Astronomical Society
Bulletin of the American Astronomical Society, Vol. 41, p.306, 2009.
Title: *The Search for the Pulsar in SN 1986J.*

Collaborative Publications

Koekemoer, A. M., Ellis, R. S. McLure, R. J., Dunlop, J. S., Robertson, B. E., Ono, Y., Schenker, M. A., Ouchi, M., Bowler, R. A., Rogers, A. B., Curtis-Lake, E., **Schneider, E. E.**, Charlot, S., Stark, D. P., Furlanetto, S. R., Cirasuolo, M., Wild, V., Targett, R. (2013). The 2012 Hubble Ultra Deep Field (UDF12): Observational Overview. *The Astrophysical Journal Supplement*, 209(1).

Ono, Y., Ouchi, M., Curtis-Lake, E., Schenker, M. A., Ellis, R. S., McLure, R. J., Dunlop, J. S., Robertson, B. E., Koekemoer, A. M., Bowler, R. A., Rogers, A. B., **Schneider, E. E.**, Charlot, S., Stark, D. P., Shimasaku, K., Furlanetto, S. R., Cirasuolo, M. (2013). Evolution of the Sizes of Galaxies over $7 < z < 12$ Revealed by the 2012 Hubble Ultra Deep Field Campaign. *The Astrophysical Journal*, 777(2).

Dunlop, J. S., Rogers, A. B., McLure, R. J., Ellis, R. S., Robertson, B. E., Koekemoer, A., Dayal, P., Curtis-Lake, E., Wild, V., Charlot, S., Bowler, R. A. A., Schenker, M. A., Ouchi, M., Ono, Y., Cirasuolo, M., Furlanetto, S. R., Stark, D. P., Targett, T. A., **Schneider, E. E.** (2013). The UV Continua and Inferred Stellar Populations of Galaxies at z= 7-9 Revealed by the Hubble Ultra-Deep Field 2012 Campaign. *Monthly Notices of the Royal Astronomical Society*, 432(4), 3520-3533.

Schenker, M. A., Robertson, B. E., Ellis, R. S., Ono, Y., McLure, R. J., Dunlop, J. S., Koekemoer, A., Bowler, R. A. A., Ouchi, M., Curtis-Lake, E., Rogers, A. B., **Schneider, E. E.**, Charlot, S., Stark, D. P., Furlanetto, S. R., Cirasuolo, M. (2013). The UV Luminosity Function of Star-forming Galaxies via Dropout Selection at Redshifts $z \sim 7$ and 8 from the 2012 Ultra Deep Field Campaign. *The Astrophysical Journal*, 768(2).

Robertson, B. E., Furlanetto, S. R., **Schneider, E. E.**, Charlot, S., Ellis, R. S., Stark, D. P., McLure, R. J., Dunlop, J. S., Koekemoer, A., Schenker, M. A., Ouchi, M., Ono, Y., Curtis-Lake, E., Rogers, A. B., Bowler, R. A. A., Cirasuolo, M. (2013). New Constraints on Cosmic Reionization from the 2012 Hubble Ultra Deep Field Campaign. *The Astrophysical Journal*, 768(1).

Ellis, R. S., McLure, R. J., Dunlop, J. S., Robertson, B. E., Ono, Y., Schenker, M. A., Koekemoer, A., Bowler, R. A. A., Ouchi, M., Rogers, A. B., Curtis-Lake, E., **Schneider, E. E.**, Charlot, S., Stark, D. P., Furlanetto, S. R., Cirasuolo, M. (2013). The Abundance of Star-forming Galaxies in the Redshift Range 8.5-12: New Results from the 2012 Hubble Ultra Deep Field Campaign. *The Astrophysical Journal Letters*, 763(1).

Dupree, A. K., Brickhouse, N. S., Cranmer, S. R., Luna, G. J. M., **Schneider, E. E.**, Bessell, M. S., Bonanos, A., Crause, L. A., Lawson, W. A., Mallik, S. V., Schuler, S. C. (2012). TW Hya: Spectral Variability, X-Rays, and Accretion Diagnostics. *The Astrophysical Journal*, 760(1).

Beckmann, P. A. & **Schneider, E. E.** (2012). Methyl Group Rotation, ^{1}H Spin-lattice Relaxation in an Organic Solid, and the Analysis of Nonexponential Relaxation. *Journal of Chemical Physics*, 136(5).