

Shannon Hall

Curriculum Vitae

Education

- 2014 – 2015 **M.A. in Science Health and Environmental Reporting (SHERP).**
New York University
- 2011 – 2013 **M.S. in Physics (Astronomy).**
University of Wyoming
- 2007 – 2011 **B.A. in Physics-Astronomy and Philosophy.**
Whitman College

Science Journalism Experience

- 2014 – 2018 **Freelance Science Journalist**, THE NEW YORK TIMES, SCIENTIFIC AMERICAN, NATIONAL GEOGRAPHIC, NEW SCIENTIST, SKY & TELESCOPE, DISCOVER, QUANTA.
Pitch and write a range of stories from supermassive black holes to supervolcanoes.
- 2016 – 2018 **Showcase Managing Editor**, COUNCIL FOR THE ADVANCEMENT OF SCIENCE WRITING.
Manage and edit a new website that highlights award-winning science journalism.
- 2015 **Editorial Intern**, SCIENTIFIC AMERICAN.
Pitched and wrote stories for the magazine's front of the book news stories. Sat in on editorial meetings.
- 2015 **Editor in Chief**, SCIENCELINE.
Top edited and published every story for NYU's student-run online magazine. Ran weekly meetings. Helped the staff work toward a common goal, including a website redesign and launching a separate website with stories dedicated to a single topic.
- 2015 **Editorial Intern**, NAUTILUS.
Pitched and wrote stories across a range of scientific and philosophical topics. Also fact checked and helped with social media.
- 2015 **Editorial Intern**, LIVE SCIENCE AND SPACE.COM.
Turned over stories rapidly, edited freelance stories and joined in on daily meetings.
- 2014 – 2015 **Environment Editor**, SCIENCELINE.
Edited stories on the environment beat.
- 2014 – 2015 **Staff Writer**, BEACON.
Launched a crowd-sourced project that debunks our search for Earth 2.0. Wrote six feature length stories.
- 2014 **Editorial Intern**, SKY & TELESCOPE MAGAZINE.
Wrote nearly every story for the online news site. Sat in on editorial meetings and learned the ins and outs of publishing a monthly magazine.
- 2013 – 2015 **Staff Writer**, UNIVERSE TODAY.
Wrote about current research in astronomy, our endeavors in human spaceflight, and even climate change.

Selected Freelance Stories

- 2018 **Destination: Venus.**
Published in Sky & Telescope Magazine
- 2018 **Summer Solstice 2018: The Search for Life in the Galaxy.**
Published in The New York Times
- 2018 **A New World's Extraordinary Orbit Points to Planet Nine.**
Published in Quanta Magazine
- 2018 **As Africa Splits in Two, Scientists Remain at Odds.**
Published in Discover Magazine
- 2017 **What to Believe in Antarctica's Great Ice Debate.**
Published in Scientific American
- 2017 **7 Alien 'Earths' May be Swapping Life via Meteorites.**
Published in National Geographic

Invited Talks and Workshops

- 2017 **How to Communicate Science, TWO-DAY WORKSHOP.**
Dartmouth Center for the Advancement of Learning, Dartmouth College
- 2017 **From Science to Science Journalism, TALK.**
Science Technology and Engineering Policy Society (STEPS) Organization, Dartmouth College
- 2016 **Science Media Literacy, TALK.**
Astronomy 101, Dartmouth College

Teaching Experience

- 2014 **NSF Workshop Teacher, UNIVERSITY OF WYOMING.**
Created several lessons that teachers could use in a classroom setting.
- 2013 **Astrocamp Teacher, UNIVERSITY OF WYOMING.**
Spent 10 days working with middle school students.
- 2011 – 2013 **Teaching Assistant, UNIVERSITY OF WYOMING.**
Full responsibilities included writing labs, preparing discussion sessions, grading and tutoring.

Public Outreach Experience

- 2013 – 2014 **Performance Science Educator, PACIFIC SCIENCE CENTER.**
Interpreted exhibits and scientific concepts for guests.
- 2008 – 2014 **Planetarium Show Coordinator, PACIFIC SCIENCE CENTER, UNIVERSITY OF WYOMING, WHITMAN COLLEGE.**
Created and presented planetarium shows for pre-schoolers, college students, and the general public.

Research Experience

- 2012 – 2013 **Master's Degree, UNIVERSITY OF WYOMING.**
Detected exoplanet atmospheres with Dr. Hannah Jang-Condell.
- 2010 **University of Hawaii NSF REU, UNIVERSITY OF HAWAII.**
Conducted research in instrumentation and spectropolarimetry with Dr. David Harrington.
- 2009 **SARA NSF REU, EAST TENNESSEE STATE UNIVERSITY.**
Conducted research on polarimetry and instrumentation with Dr. Gary Henson.

Journal Articles

- M. A. DiPompeo, A. D. Myers, R. C. Hickox, J. E. Geach, G. Holder, K. N. Hainline, **S. W. Hall**, 2014, "Weighing Obscured and Unobscured Quasar Hosts with the CMB," MNRAS, in press
- T. B. Rochais, M. A. DiPompeo, A. D. Myers, M. S. Brotherton **S. W. Hall**, 2014, "Radio-Loud and Radio-Quiet BAL Quasars: A Detailed Ultraviolet Comparison," MNRAS, in press
- Harrington, D., Kuhn, J., **Hall, S.**, 2011, "Deriving Telescope Mueller Matrices Using Daytime Sky Observations," PASP, 123, 799-811
- **Hall, S.**, Henson, G., 2010, "Characteristics of an Imaging Polarimeter for the Powell Observatory," JSARA, 4, 2-6

Conference Proceedings

- Burrows, A., Myers, A., DiPompeo, M., Borowczak, M., Schwartz, A., French, D., **Hall, S.**, and Peterson, F. "Partnerships: A Systematic Study of Two Professional Developments." Poster presentation at the National Science Teachers Association Area Conferences in conjunction with the Association for Science Teacher Education. Reno, NV, October 22, 2015.
- **Hall, S.**, Jang-Condell, H., Lopez-Morales, M., Kobulnicky, H., Runnoe, J., 2013, "Detecting Exoplanet Atmospheres From 2-m Ground-Based Telescopes", AAS
- **Hall, S.**, Harrington, D., Kuhn, J., 2011, "Deriving Telescope Properties Using Daytime Observations", AAS, APS
- **Hall, S.**, Henson, G., 2010, "Characteristics of an Imaging Polarimeter for the Powell Observatory" AAS

Observing Experience

Wyoming Infrared Observatory, UNIVERSITY OF WYOMING.

20+ nights, long-slit spectroscopy.

Mayall 4-meter Telescope, KITT PEAK, AZ.

6+ nights, photometry

MDM 2.4-meter Observatory, KITT PEAK, AZ.

6+ nights, photometry

AEOS 4-meter Observatory, HALEAKALA, HI.

10+ nights, spectropolarimetry

SARA 0.9-meter Observatory, KITT PEAK, AZ.

3+ nights, photometry

ETSU 14-inch Research Telescope, TN.

20+ nights, imaging polarimetry

Member Of:

- Aircraft Owners and Pilots Association
- American Astronomical Society
- American Physical Society
- National Association of Science Writers
- Sigma Xi Scientific Research Society

Skills

- Logged 22 hours toward a private pilot license.
- Lived in a Buddhist temple in Thailand, slept in the Sahara and climbed Machu Picchu.
- Spent 50+ nights observing the skies on some of the world's coolest telescopes.
- Proficient in HTML, CSS, Wordpress, IDL, Excel, Latex, Gimp, Photoshop, Premiere Pro and the cello.