REBECCA NEVIN

POSTDOCTORAL RESEARCH FELLOW
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EDUCATION

Ph.D. in Astrophysics, University of Colorado — June, 2019
Doctoral Thesis supervised by Julie Comerford:
"Kinematic Signatures of Galaxy Evolution: The Energetics of AGN Outflows and the Accurate Identification of Merging Galaxies"

M.S. in Astrophysics, University of Colorado — Nov, 2015

B.A. in Astrophysics, Whitman College — May, 2013

FELLOWSHIPS & AWARDS

SDSS Early Career Scientist Travel Fund — Mar, 2019
Early Career Scientist Decadal Survey Participant — Oct, 2018
PEO Scholar Award Alternate — Apr, 2018
3 Minute Thesis Competition - 2nd Place — Feb, 2018
Ray Mace Smith Graduate Fellowship — Apr, 2016
High Pass on Master's Exam — Nov, 2015
NSF Graduate Fellow — 2014 - 2017
Graduated Summa Cum Laude, Whitman College — May, 2013
Phi Beta Kappa — May, 2013
Sigma Xi — Mar, 2013

RESEARCH EXPERIENCE

Postdoctoral Research Fellow | Smithsonian Astrophysical Observatory — 2019 - present
AGN and Galaxy Evolution

Graduate Research Assistant | University of Colorado — 2013 - 2019
Simulated Galaxy Imaging and Kinematics and AGN Outflows

Undergraduate Research Assistant | Harvard CfA — 2012
Recoiling Supermassive Black Holes

Undergraduate Research Assistant | Whitman College — 2011 - 2012
Globular Cluster Stellar Populations

Undergraduate Research Assistant | Institute for Astronomy, Maui — 2011
Spectropolarimeter Characterization

REFEREED PUBLICATIONS

[8] *"Accurate Identifications of Galaxy Mergers with Imaging"*
Nevin, R., Blecha, L., Comerford, J. & Greene, J., 2018, ApJ, 872

[7] *"The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei IV: Association with Galaxy Mergers"*
Comerford, J., **Nevin, R.**, Stemo, A., Müller-Sánchez, F., Barrows, R., Cooper, M. & Newman, J., 2018, ApJ, 867, 66

[6] *"Two Separate Outflows in the Dual Supermassive Black Hole System NGC 6240"*
Müller-Sánchez, F., **Nevin, R.**, Comerford, J., Davies, R., Privon, G. & Treister, E., 2018, Nature, 556, 345

[5] *"The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei III: Feedback from Biconical AGN Outflows"*
Nevin, R., Comerford, J., Müller-Sánchez, F., Barrows, R. & Cooper, M., 2018, MNRAS, 473, 2160

[4] *"An Active Galactic Nucleus Caught in the Act of Turning Off and On"*
Comerford, J., Barrows, R., Müller-Sánchez, F., **Nevin, R.**, Greene, J., Pooley, D., Stern, D. & Harrison, F., 2017, ApJ, 849, 102

[3] *"The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei II: Kinematic Classifications for the Population at $z < 0.1$"*
Nevin, R., Comerford, J., Müller-Sánchez, F., Barrows, R. & Cooper, M., 2016, ApJ, 832, 67

[2] *"The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei I: Very Large Array Detections of Dual AGNs and AGN Outflows"*
Müller-Sánchez, F., Comerford, J., **Nevin, R.**, Barrows, R., Cooper, M. & Greene, J., 2015, ApJ, 813, 2

[1] *"Calibrating and Stabilizing Spectropolarimeters with Charge Shuffling and Daytime Sky Measurements"*
Harrington, D., Kuhn, J. & **Nevin, R.**, 2015, Astronomy & Astrophysics, 578, 126

OTHER PUBLICATIONS

[1] *"This Father's Day is One of the Longest Days in the History of the Earth - Here's Why"*
Nevin, R., 2015, Universe Today

[2] *"Going Above & Beyond: A Cross-Disciplinary Planetarium Program"*
Rehnberg, M. & **Nevin, R.**, 2016, AAS Education Task Force White Paper

INVITED COLLOQUIA

University of Wyoming Sep 28, 2018

SEMINARS & CONFERENCE TALKS

University of Washington Galaxy Seminar, Seattle, WA Oct 30, 2019
Kinematic Review, MaNGA Team Meeting, Oxford, UK Apr 3, 2019
AAS 233 Winter Meeting, Seattle, WA Jan 7, 2019
Seminar, Carnegie Observatories Oct 26, 2018
Seminar, Space Telescope Science Institute Oct 12, 2018
Seminar, Princeton University Oct 10, 2018
AAS 232 Summer Meeting, Denver, CO Jun 5, 2018
Seminar, University of Florida Mar 28, 2018
CASA/JILA Seminar, University of Colorado Mar 22, 2018
SDSS-IV/MaNGA Meeting and Workshop, Campeche, Mexico Dec 7, 2017
AGN Winds on the Georgia Coast, Jekyll Island, Georgia Jun 28, 2017
CASA/JILA Seminar, University of Colorado Jun 16, 2017
Great Lakes Quasar Symposium, London, Ontario May 4, 2016

SUPERCOMPUTING ALLOCATIONS

Co-PI of XSEDE Supercomputer Allocation, NSF 2018
Allocated 1242000 CPU-hours

PI of JANUS/Summit Supercomputer Allocation, University of Colorado 2015
Allocated 200000 CPU-hours

OBSERVING EXPERIENCE

PI of six successful Apache Point Observatory Proposals 2014 - 2016
Dual Imaging Spectrograph, 3.5m ARC Telescope
Observed 34.5 half nights

Co-PI of MDM Observatory (Kitt Peak) Research 2012
Observed five nights

TEACHING EXPERIENCE

Instructor of Record, ASTR-1000 2017
University of Colorado
Developed and taught a 25 student course. Designed inquiry-based activities.

Professional Development Program (PDP) 2016
Institute for Scientists & Engineer Educators, University of California
Developed an inquiry-based exoplanet lab for first generation college students.

Teaching Assistant 2013 - 2014
University of Colorado
Taught lab courses (30 students) and assisted with interactive learning

techniques for the large introductory classes.

Undergraduate Teaching Assistant and Tutor 2011 - 2013
Whitman College
Guided student telescope labs and indoor physics tutorials, led community outreach telescope nights, and gave planetarium shows to local schools

PROFESSIONAL DEVELOPMENT AND SERVICE

Datacamp Data Science Courses in Python	2019 - present
Astro 2020 Decadal Survey Position Paper Coauthor	2018-2019
Referee, MNRAS	Dec 2018
Statistical Learning, Stanford Online	2018 - present
Mentorship Training, University of Colorado	Aug 2018
Rethinking Scientific Presentations: The Assertion-Evidence Approach	Jan 2018
Running Singularity Containers on SDSC's Comet Supercomputer	Jun 2018
Managing Research Workflows with Singularity Containers	Apr 2018
Software Carpentry Workshop, Research Computing	Mar 2017
Science Writing Course, University of Colorado	2016
Elected Comps I Committee Member, University of Colorado	Fall 2015
Astrostatistics Summer School, Penn State	Jun 2015
Faculty Hiring Committee Member, University of Colorado	Jan 2014

OUTREACH & COMMUNICATION

SDSS Press Conference Jan 2019
Took part in a press release and press conference at the 233rd AAS meeting, release text is available on the SDSS website.

Supermassive Black Hole Documentary Film 2018 - 2019
Writing and developing an educational movie about supermassive black holes and galaxy mergers in partnership with the Fiske Planetarium.

Science Speak-Easy: Science Communication Workshop 2018 - 2019
Organized and facilitated an annual workshop for graduate students and postdocs at University of Colorado on giving public and scientific talks.

The Science of Sci Fi 2017 - 2019
Developed and ran this talk series at Fiske Planetarium, aimed at engaging the public with popular sci fi works.
My talk: *Zombie Pathology: A Survival Guide for Pandemics in the 21st Century*

Science and Society 2014 - 2019
Ran this talk series at Fiske Planetarium, helped graduate students and postdocs develop talks

My talks: *It Came from Space! The Solar System's Ultimate Weapon and How we Hope to Stop it, Galactic Getaways: Life from a Different Perspective*

Promoting an Inclusive Community in Astronomy (PICA) 2013 - 2019
Organized and led discussions of this graduate-student run diversity group

Astronomy on Tap: Colorado 2016 - 2017
My talks: *Gravitational Waves, The Dino's Demise*

Science Writer 2013 - 2017
Wrote for the blog *Cosmic Conversations*, communicated a wide range of popular science topics

PhD Comics 2016
Research group featured in *Supermassive Black Holes Explained* (http://www.phdcomics.com/comics.php?f=1864)

ComSciCon 2015
Attended this science communication conference preparing today's scientists to better communicate their science to a broader audience

Earth Explorers 2014 - 2015
Worked with a group of underserved middle schoolers in Longmont, CO to develop a movie about black holes