

Mitchell D. Revalski

CONTACT INFORMATION

Postdoctoral Researcher
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RESEARCH INTERESTS

Active Galactic Nuclei (AGN), mass outflows, galaxy and Supermassive Black Hole (SMBH) evolution, gas kinematics, emission line diagnostics, photoionization modeling, variability, *Hubble Space Telescope* spectroscopy and imaging, Integral Field Unit (IFU) spectroscopy.

EDUCATION

Ph.D. in Astronomy, Georgia State University 2019
Dissertation: Quantifying Feedback from Narrow Line Region Outflows in Nearby Active Galaxies

M.S. in Physics, Georgia State University 2017
Astronomy Concentration

B.S. in Physics, The College of New Jersey 2014
Astrophysics Concentration

EMPLOYMENT

Postdoctoral Researcher, Space Telescope Science Institute 2019 - Present
MUSE+HST analysis of intermediate redshift galaxies with Dr. Marc Rafelski.

NSF Graduate Research Fellow, Georgia State University 2016 - 2019
Determining the Importance of Mass Outflows in the Evolution of Active Galactic Nuclei

Graduate Teaching Assistant, Georgia State University 2014 - 2016
Taught labs for introductory solar system and extragalactic astronomy courses.

Observatory Technician, The College of New Jersey 2012 - 2014
Operated campus observatory, assisted with educating astronomy students.

Part-Time Machinist, Mechanical Precision, Inc. 2011 - 2014
Computerized machining, surface finishing, assembly, and quality control.

PROFESSIONAL AFFILIATIONS

AAS Division on Dynamical Astronomy (DDA) Member 2019 - Present
Golden Key International Honour Society 2017 - Present
American Astronomical Society (AAS) Member 2013 - Present
AAS High Energy Astrophysics Division (HEAD) Member 2014 - Present
Sigma Pi Sigma National Physics Honors Society 2013 - Present
Society of Physics Students Member 2013 - Present

AWARDS & HONORS

Advanced Graduate Student Award for Astronomy	2018
Tie for Best Poster at GSU High Performance Computing Day	2016
Best Poster Award at The Great Lakes Quasar Symposium	2016
National Science Foundation Graduate Research Fellowship Recipient	2016
Research Featured in TCNJ Journal of Student Scholarship	2015
GSU Second Century Initiative (2CI) Fellowship Recipient	2014
Young Scientist Honorable Mention, Sant Cugat Forum on Astrophysics	2014
Edward J. Bloustein Distinguished Scholar Scholarship	2010
California Technical Institute Signature Book Award	2009
New Jersey Earth Science Teachers Award	2004

LEADERSHIP POSITIONS

AAS Employment Committee Member	2019 - Present
AstroPAL (Peer Advising Leader), Georgia State University	2016 - 2019
Graduate Student Liaison, Georgia State University Astronomy Club	2015 - 2018
President, The College of New Jersey Astronomy Club	2013 - 2014
Transfer Student Peer Mentor, The College of New Jersey	2013 - 2014
Vice President, The College of New Jersey Physics Club	2012 - 2014
Vice President, The College of New Jersey Astronomy Club	2012 - 2013
Vice President, The College of New Jersey Society of Physics Students	2012 - 2013
President, The College of New Jersey Swing Dance Club	2011 - 2014
Research Team, The New Jersey Astronomical Association	2011 - Present
President, Voorhees High School Astronomy Club	2008 - 2010
Qualified Observer, The New Jersey Astronomical Association	2006 - Present

RESEARCH EXPERIENCE

NSF Graduate Research Fellow, Georgia State University <i>Quantifying Feedback from Narrow Line Region Outflows in Nearby Active Galaxies</i> Advisor: Dr. D. Michael Crenshaw	2016 - 2019
Second Century Initiative Fellow, Georgia State University <i>Quantifying Feedback from Narrow Line Region Outflows in Nearby Active Galaxies</i> Advisor: Dr. D. Michael Crenshaw	2014 - 2016
Undergraduate Thesis, The College of New Jersey <i>Electromagnetic Radiation from Charges Accelerated by Gravitational Waves</i> Advisor: Dr. Thulsi Wickramasinghe	2013
Mentored Undergraduate Summer Experience, The College of New Jersey <i>A Further Examination of Quasar Variability Using the Kepler Satellite</i> Advisor: Dr. Paul J. Wiita	2013
Mentored Undergraduate Summer Experience, The College of New Jersey <i>Investigating Quasar Variability Utilizing Kepler</i> Advisor: Dr. Paul J. Wiita	2012

TEACHING EXPERIENCE

- Georgia State University Lab Instructor 2014 - 2016
Taught a total of 12 introductory astronomy lab sections.
- Georgia State University Substitute Lecturer 2014 - 2018
Taught two astronomy lectures as substitute instructor.
- Voorhees High School Telescope Unit 2009
Taught a high school lecture on optics and telescopes.

OBSERVING EXPERIENCE

- 3.50m ARC Telescope - Apache Point Observatory, Sunspot, NM 2015 - Present
Optical long-slit spectroscopy and broadband imaging.
- 0.66m NJAA Telescope - Paul Robinson Observatory, High Bridge, NJ 2006 - Present
Broadband imaging and photometry.
- 0.60m Miller Telescope - Hard Labor Creek Observatory, Rutledge, GA 2014 - 2019
Imaging and photometric monitoring of AGN variability.

EDITORIAL SERVICE

Served as a referee for four papers published in The Astrophysical Journal (ApJ) and the Monthly Notices of the Royal Astronomical Society (MNRAS).

DEPARTMENTAL SERVICE

Served on the Graduate Handbook Development Committee as student representative.
Provide orientation to incoming students through the Peer Advising Leaders program.

STUDENT MENTORING

Provided guidance to three undergraduate students and one graduate student. Training included space and ground-based observing, spectroscopic and imaging data reduction and analysis, spectral diagnostics, database queries, and scientific presentation and writing development.

APPLICABLE SKILLS

Proficient in Mathematica, IDL, Fortran, DS9, Cloudy, Windows, Microsoft Office Suite, L^AT_EX
Knowledgeable in Linux, MacOS, C++, IRAF, MaximDL, Matlab, Blender, Python, Perl, Bash
Analysis of Hubble Space Telescope long-slit and ground-based long-slit/IFU spectroscopy
Multi-component spectral fitting using Bayesian techniques
Photoionization modeling of ionized plasmas with the Cloudy code
Analysis of Kepler photometric data for variability studies
Computerized Numerical Control (CNC) machining and G/M type codes
Telescope mirror fabrication, Foucault, Ronchi, Auto Collimation, Ross Null testing
Laser safety trained for research in fluid dynamics lab
Comfortable with basic Spanish at the conversational level

ACCEPTED PROPOSALS & GRANTS

4. “Resolving the Mechanisms of Feeding and Feedback in Nearby AGN”, Crenshaw, D.M. (P.I.), Fischer, T.C., Gnilka, C.L., **Revalski, M.**, Dashtamirova, D., Kraemer, S.B., Schmitt, H.R., Wiklind, T., Gemini Observatory Semester 2018B
3. “Determining the Importance of Mass Outflows in the Evolution of Active Galactic Nuclei”, **Revalski, M. (P.I.)**, NSF Graduate Research Fellowship Program, **\$138,000**, (2016 - 2018)
2. “What is the Impact of Narrow-Line Region Outflows on AGN Feedback?”, Crenshaw, D.M. (P.I.), Kraemer, S.B., Schmitt, H.R., Fischer, T.C., **Revalski, M.** 2015, HST Cycle 23 Archival
1. “Investigating Kaposov 62”, **Revalski, M. (P.I.)**, Alton, K. 2014, Kepler K2 Proposal GO0076

PEER-REVIEWED PUBLICATIONS

To see my publication record in the SAO/NASA ADS system, *Click Here*.

(8 publications: 3 first-author, 5 co-author, h -index = 6, $i10$ -index = 6, total citations = 127)

8. “Multicomponent power-density spectra of Kepler AGNs, an instrumental artefact or a physical origin?”, Dobrotka, A., Bezák, P., **Revalski, M.**, Strémy, M. 2019, MNRAS, 483, 38
7. “Quantifying Feedback from Narrow Line Region Outflows in Nearby Active Galaxies. II. Spatially Resolved Mass Outflow Rates for the QSO2 Markarian 34”, **Revalski, M.**, Dashtamirova D., Crenshaw, D.M., Kraemer, S.B., Fischer, T.C., Schmitt, H.R., Gnilka, C.L., Schmidt, J., Elvis, M., Fabbiano, G. Storchi-Bergmann, T., Maksym, W.P., Gandhi, P. 2018, ApJ, 867, 88
6. “Hubble Space Telescope Observations of Extended [O III] λ 5007 Emission In Nearby QSO2S: New Constraints on AGN / Host Galaxy Interaction”, Fischer, T.C., Kraemer, S.B., Schmitt, H.R., Longo Micchi, L.F., Crenshaw, D.M., **Revalski, M.**, Elvis, M., Gaskell, C.M., Hamann, F., Ho, L.C., Hutchings, J., Mushotzky, R., Netzer, H., Storchi-Bergmann, T., Straughn, A., Turner, T.J., Vestergaard, M., Ward, M.J 2018, ApJ, 856, 102
5. “Quantifying Feedback from Narrow Line Region Outflows in Nearby Active Galaxies. I. Spatially Resolved Mass Outflow Rates for the Seyfert 2 galaxy Markarian 573”, **Revalski, M.**, Crenshaw, D.M., Kraemer, S.B., Fischer, T.C., Schmitt, H.R., Machuca, C. 2018, ApJ, 856, 46
4. “Gemini Near Infrared Field Spectrograph Observations of the Seyfert 2 Galaxy Mrk 573: In Situ Acceleration of Ionized and Molecular Gas Off Fueling Flows”, Fischer, T.C., Machuca, C., Diniz, M.R., Crenshaw, D.M., Kraemer, S.B., Riffel, R.A., Schmitt, H.R., Baron, F., Storchi-Bergmann, T., Straughn, A.N., **Revalski, M.**, Pope, C.L. 2017, ApJ, 834, 30
3. “A Low-Mass Black Hole in the Nearby Seyfert Galaxy UGC 06728”, Bentz, M.C., Batiste, M., Seals, J., Garcia, K., Kuzio de Naray, R., Peters, W., Anderson, M.D., Jones, J., Lester, K., Machuca, C., Parks, R.J., Pope, C.L., **Revalski, M.**, Roberts, C.A., Saylor, D., Sevrinsky, A.R., Turner, C. 2016, ApJ, 831, 2
2. “Investigating the Variability of Active Galactic Nuclei Using Combined Multi-Quarter Kepler Data”, **Revalski, M.**, Nowak, D., Wiita, P.J., Wehrle, A.E., Unwin, S.C. 2014, ApJ, 785, 60
1. “Kepler Photometry of Four Radio-Loud Active Galactic Nuclei in 2010-2012”, Wehrle, A.E., Wiita, P.J., Unwin, S.C., Di Lorenzo, P., **Revalski, M.**, Silano, D., Sprague, D. 2013, ApJ, 773, 89

INVITED TALKS & COLLOQUIA

5. “Measuring the Impact of Mass Outflows in Nearby Active Galaxies”, Harvard-Smithsonian Center for Astrophysics “Quasar Tea Talk”, Hosted by Peter Maksym, October 23, 2018
4. “Supermassive Black Hole Winds: Can They Influence Galaxy Evolution?”, The College of New Jersey, Department of Physics Colloquium, Hosted by Angela Capece, October 19, 2018
3. “The Energetics of Narrow Line Region Mass Outflows in Nearby AGN”, NASA’s Goddard Space Flight Center (GSFC), Hosted by Travis Fischer, October 17, 2018
2. “Characterizing Mass Outflows in Nearby Active Galaxies with Hubble”, U.S. Naval Research Laboratory (NRL), Hosted by Henrique Schmitt, October 16, 2018
1. “Probing Feedback from Outflows in the Narrow Line Region”, Multiphase AGN Feeding and Feedback Conference, Sesto, Italy, July 13, 2018

CONFERENCE PROCEEDINGS

3. “Challenges and Techniques for Simulating Line Emission”, Olsen, K.P., Pallottini, A., Wofford, A., Chatzikos, M., **Revalski, M.**, Guzmán, F., Popping, G., Vázquez-Semadeni, E., Magdis, G.E., Richardson, M.L.A., Hirschmann, M., Gray, W.J. 2018, *Galaxies*, 6, 100, doi: 10.3390/galaxies6040100, arxiv:1808.08251 (*peer-reviewed*)
2. “The Emission of Electromagnetic Radiation from Charges Accelerated by Gravitational Waves and its Astrophysical Implications”, **Revalski, M.**, Rhodes, W., Wickramasinghe, T. 2014, C.F. Sopena (ed.), *Gravitational Wave Astrophysics*, Springer Astrophysics and Space Science Proceedings, ISBN: 978-3-319-10487-4, doi: 10.1007/978-3-319-10488-1_27
1. “Interaction of Gravitational Waves with Charged Particles”, Wickramasinghe, T., Rhodes, W., **Revalski, M.** 2014, C.F. Sopena (ed.), *Gravitational Wave Astrophysics*, Springer Astrophysics and Space Science Proceedings, ISBN: 978-3-319-10487-4, doi: 10.1007/978-3-319-10488-1_26

CONFERENCE TALKS

12. “Feedback in Nearby Active Galaxies: Quantifying the Impact of Narrow Line Region Outflows”, **Revalski, M.**, Talk Number 306.03D, 233rd AAS Meeting
11. “Determining the Kinematics of Ionized and Molecular Gas in Nearby Active Galaxies with the Gemini Near Infrared Field Spectrometer (NIFS)”, Crenshaw, D.M., Fischer, T.C., Gnilka, C.L., **Revalski, M.**, Martinez, F., Meena, B., Kraemer, S.B., Schmitt, H.R., Talk Number 306.04, 233rd AAS Meeting
10. “A Comparison of Techniques for Determining Mass Outflow Rates in the Type 2 Quasar Markarian 34”, **Revalski, M.**, Crenshaw, D.M., Fischer, T.C., Kraemer, S.B., Schmitt, H.R., Dashtamirova, D., Gnilka, C.L., Talk Number 401.05, 232nd AAS Meeting
9. “Using Photoionization Modeling and Line Diagnostics to Quantify Feedback from AGN Driven Outflows”, **Revalski, M.**, Crenshaw, D.M., Kraemer, S.B., Fischer, T.C., Schmitt, H.R., Dashtamirova, D., Gnilka, C.L., Walking the Line 2018 (March 14-16, 2018) (*Click Here for Recording*).

8. “Investigating Tidal Interactions Between the Seyfert 2 Galaxy Mrk 3 and a Nearby Companion”, Gnilka, C.L., Crenshaw, D.M., Fischer, T.C., **Revalski, M.**, Dashtamirova, D., Talk Number 404.05, 231st AAS Meeting
7. “How Do Supermassive Black Holes Grow? Measuring the Powerful Winds in Active Galactic Nuclei”, **Revalski, M.**, 5th Perimeter Astronomy Conference (PAC, October 25, 2017) (*Click Here for Recording*).
6. “A Spatially Resolved Mass Outflow Rate for Markarian 573: In-Situ Radiative Driving of the Narrow Line Region Gas on Scales of Hundreds of Parsecs”, **Revalski M.**, Crenshaw, D.M., Kraemer, S.B., Fischer, T.C., Schmitt, H.R., Machuca, C., AGN Winds on the Georgia Coast (June 28, 2017)
5. “The Spatially Resolved Mass Outflow Rate in Markarian 573”, **Revalski, M.**, Crenshaw, D.M., Fischer, T.C., Kraemer, S.B., Schmitt, H.R., Talk Number 302.04, 229th AAS Meeting
4. “Determining the Spatially Resolved Mass Outflow Rate in Markarian 573”, **Revalski, M.**, Crenshaw, D.M., Fischer, T.C., Kraemer, S.B., Schmitt, H.R., Georgia Regional Astronomers Meeting (GRAM, October 29, 2016)
3. “Using Cloudy Models to Determine Spatially-Resolved Mass Outflow Rates in Nearby Active Galaxies”, **Revalski, M.**, Crenshaw, D.M., Kraemer, S.B., Fischer, T.C., Schmitt, H.R., Two Minute Graduate Talk at Cloudy: Emission Lines in Astrophysics (August 8-12, 2016)
2. “The Emission of Electromagnetic Radiation from Charges Accelerated by Gravitational Waves and its Astrophysical Implications”, **Revalski, M.**, Rhodes, W., Wickramasinghe, T., Contributed Talk at The 3rd Sant Cugat Forum on Astrophysics (April 22-25, 2014)
1. “Interaction of Gravitational Waves with Charged Particles”, Wickramasinghe, T., Rhodes, W., **Revalski, M.**, Contributed Talk at The 3rd Sant Cugat Forum on Astrophysics (April 22-25, 2014)

CONFERENCE POSTERS

17. “Kinematic Modeling of the Seyfert Galaxies NGC 1068 and NGC 4151”, Martinez, F., Crenshaw, D.M., **Revalski, M.**, Meena, B., Gnilka, C.L., Fischer, T.C., GSURC 2019, Georgia State University
16. “Hubble Space Telescope Observations of Extended [O III] λ 5007 Emission in Nearby QSO2s: Physical Properties of the Outflows”, Trindade Falcao, A., Kraemer, S.B., Fischer, T.C., Crenshaw, D.M., **Revalski, M.**, Poster Number 242.19, 233rd AAS Meeting
15. “Probing the Narrow Line Region Kinematics of the Seyfert 2 Galaxy Mrk 78 using Apache Point Observatory (APO) and Hubble Space Telescope (HST) Observations”, Meena, B., Crenshaw, D.M., **Revalski, M.**, Gnilka, C.L., Martinez, F., Fischer, T.C., Poster Number 242.12, 233rd AAS Meeting
14. “Kinematic Study of Outflowing Gas for the Nearby Seyfert Galaxies NGC 1068 & NGC 4151 using Hubble Space Telescope and Apache Point Observatory Spectra”, Martinez, F., Crenshaw, D.M., **Revalski, M.**, Gnilka, C.L., Dashtamirova, D., Fischer, T.C., Meena, B., Poster Number 242.11, 233rd AAS Meeting

13. “Spatially Resolved Mass Outflows in the Narrow Line Region of Markarian 34”, **Revalski, M.**, Fischer, T.C., Crenshaw, D.M., Kraemer, S.B., Schmitt, H.R., Gnilka, C.L., Dashtamirova, D., Poster Number 250.48, 231st AAS Meeting
12. “The Extended Narrow Line Region Kinematics of the Luminous QSO2 Markarian 34”, Dash-tamirova, D., Machuca, C., **Revalski, M.**, Crenshaw, D.M., Gnilka, C.L., Fischer, T.C., Poster Number 250.45, 231st AAS Meeting
11. ”Maximizing the Impact of JWST: Developing Diagnostics to Quantify Mass Outflow Rates in Nearby Active Galaxies”, **Revalski, M.**, Spectral Diagnostics to Explore the Cosmic Dawn With JWST (August 1, 2017)
10. “Disentangling the NLR Structure in Mrk 573 with Integral Field Spectroscopy”, Fischer, T.C., Machuca, C., Diniz, M., Crenshaw, D.M., Kraemer, S.B., Riffel, R.A., Schmitt, H.R., Baron, F., Storchi-Bergmann, T., Straughn, A., **Revalski, M.**, Pope, C.L. 2017, Poster Number 250.53, 229th AAS Meeting
9. “Cloudy Model Visualization to Determine Spatially-Resolved Mass Outflow Rates in Nearby Active Galaxies”, **Revalski, M.**, Crenshaw, D.M., Kraemer, S.B., Fischer, T.C., Schmitt, H.R., GSU Scientific Computing Day
8. “Using Cloudy Models to Determine Spatially-Resolved Mass Outflow Rates in Nearby Active Galaxies”, **Revalski, M.**, Crenshaw, D.M., Kraemer, S.B., Fischer, T.C., Schmitt, H.R., 2016, Cloudy: Emission Lines in Astrophysics, A Conference to Honor Gary Ferland
7. “Characterizing the Narrow Line Region Outflows in Markarian 573”, **Revalski, M.**, Crenshaw, D.M., Fischer, T.C., Kraemer, S.B., Schmitt, H.R. 2016, The Great Lakes Quasar Symposium
6. “Mass Outflow in the Narrow Line Region of Markarian 573”, **Revalski, M.**, Crenshaw, D.M., Fischer, T.C., Kraemer, S.B., Schmitt, H.R. 2016, Poster Number 243.06, 227th AAS Meeting
5. “Feeding and Feedback in Nearby AGN based on IFU Observations”, Crenshaw, D.M., Fischer, T.C., Kraemer, S.B., Schmitt, H.R., Pope, C.L., Machuca, C., **Revalski, M.** 2016, Poster Number 243.04, 227th AAS Meeting
4. “Analysis of Quasar Variability Using Kepler Quarter 14 and 15 Data”, Nowak, D., **Revalski, M.**, Wiita, P.J., Wehrle, A.E., Unwin, S.C. 2014, Poster Number 250.01, 223rd AAS Meeting
3. “Investigating AGN Variability Using Combined Multi-Quarter Kepler Data”, **Revalski, M.**, Nowak, D., Wiita, P.J., Wehrle, A.E., Unwin, S.C. 2014, Poster Number 250.02, 223rd AAS Meeting
2. “Photometric Monitoring of Quasars with Kepler”, Unwin, S.C., Wehrle, A.E., Wiita, P.J., **Revalski, M.**, Silano, D., Sprague, D., Di Lorenzo, P. 2013, Poster Number 339.01, 221st AAS Meeting
1. “Exploiting Kepler to Study Quasar Variability”, **Revalski, M.**, Wiita, P.J., Di Lorenzo, P., Sprague, D., Wehrle, A.E., Unwin, S.C. 2013, Poster Number 339.02, 221st AAS Meeting

COMMUNITY WHITE PAPERS

2. “Astronomy-driven Careers in the 2020’s”, Kamenetzky, J. et al and 11 co-authors including **Revalski, M.**, 2019, An Astro2020 Decadal Survey State of the Profession Consideration
1. “The Physics and Astrophysics of X-ray Outflows from Active Galactic Nuclei”, Laha, S. et al. and 22 co-authors including **Revalski, M.**, 2019, National Academies of Science, Engineering, and Medicine’s Call to the Astronomy and Astrophysics Community for Science White Papers

RECENT MEETINGS

American Astronomical Society 233rd Meeting, Seattle, WA	2019
Chandra/CIAO Workshop at the 233rd AAS Meeting, Seattle, WA	2019
Multiphase AGN Feeding and Feedback, Sesto, Italy	2018
American Astronomical Society 232nd Meeting, Denver, CO	2018
Walking the Line 2018: Simulating the Line Emission from Galaxies, Tempe, AZ	2018
American Astronomical Society 231st Meeting, National Harbor, MD	2018
5th Perimeter Astronomy Conference, Atlanta, GA	2017
AGN Storm at Georgia State University, Atlanta, GA	2017
Spectral Diagnostics to Explore the Cosmic Dawn With JWST, Baltimore, MD	2017
AGN Winds on the Georgia Coast, Jekyll Island, GA	2017
American Astronomical Society 229th Meeting, Grapevine, TX	2017
Georgia Regional Astronomers Meeting, Atlanta, GA	2016
Georgia State University High Performance Computing Day, Atlanta, GA	2016
Cloudy: Emission Lines in Astrophysics, Gaseous Nebulae to Quasars, Mexico City	2016
Great Lakes Quasar Symposium at Western University, London, Ontario	2016
American Astronomical Society 227th Meeting, Kissimmee, FL	2016
Inclusive Astronomy, Vanderbilt University, Nashville, TN	2015
IAU Symposium 314: Young Stars and Planets Near the Sun, Atlanta, GA	2015
The Sant Cugat Forum on Astrophysics 3rd Meeting, Sant Cugat, Spain	2014
American Astronomical Society 223rd Meeting, National Harbor, MD	2014
American Astronomical Society 221st Meeting, Long Beach, CA	2013

ORGANIZING COMMITTEES

3. AGN Winds on the Georgia Coast 2017
Announcements, abstract submission and sorting.
2. White House Astronomy Night Satellite Event: GSU Astronomy Night 2015
Assisted with “Ask an Astronomer” panel discussion for public outreach.
1. IAU Symposium 314: Young Stars and Planets Near the Sun 2015
Managed volunteers, created name badges, and organized poster competition.

PUBLIC OUTREACH

INVITED TALKS

4. “Supermassive Black Holes and Extragalactic Outflows”, at the Charlie Elliott Astronomy Club, January 28, 2017.

3. “Mass Outflow in Active Galaxies: What are they and how do they affect galaxy evolution?”, at the New Jersey Astronomical Association, November 28, 2015. (*Click Here for Recording*).
2. “An Introduction to Gravitational Wave Astronomy & Undergraduate Research Results”, at the New Jersey Astronomical Association, June 13, 2014. (*Click Here for Recording*).
1. “Exploring Active Galactic Nuclei Utilizing the Kepler Satellite”, at the New Jersey Astronomical Association, September 22, 2012.

OUTREACH PROGRAMS

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| 6. Presentations of Science Public Outreach Team (SPOT) Resources
<i>Presentations of Astronomy and STEM topics for K-12.</i> | 2018 - 2019 |
| 5. Hard Labor Creek Observatory Volunteer
<i>Operate telescopes & direct public during open houses.</i> | 2014 - 2019 |
| 4. Girl Scouts of America
<i>Assist with hands-on astronomy programs directed by Dr. Misty Bentz.</i> | 2014 - 2019 |
| 3. Urban Life Observatory Volunteer
<i>Operated telescopes from GSU campus for students in the city.</i> | 2014 - 2016 |
| 2. New Jersey Astronomical Association Qualified Observer
<i>Team member that hosted public nights at the observatory, included observing, youth education, and STEM career awareness. Total of 25+ nights.</i> | 2006 - 2014 |
| 1. Elementary School Planetarium Shows
<i>Portable planetarium shows and crafts for K-6 students at three schools.</i> | 2006 - 2010 |

OUTREACH EVENTS

- | | |
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| 23. Physics Graduate Student Association HLCO Night
<i>Operated HLCO telescopes for PGSA Student Star Party.</i> | Mar 2019 |
| 22. Trip Elementary School STEM Night
<i>Had students build model refracting telescopes and discussed optics.</i> | Jan 2019 |
| 21. Maynard Holbrook Jackson High School
<i>Astronomy trivia game and discussed jobs in STEM fields.</i> | Jan 2019 |
| 20. Voorhees High School: “Astronomy Smorgasbord”
<i>Gave talk on research, jobs in STEM, and graduate school information.</i> | Oct 2018 |
| 19. Cristo Rey High School Astronomy Jeopardy
<i>Had student teams compete in astronomy trivia game.</i> | Sep 2018 |
| 18. Trip Elementary School STEM Night
<i>Operated telescope and answered questions for several hundred students.</i> | Jan 2018 |
| 17. Raritan Valley Elementary School Q&A
<i>Answered solar system and star questions for 4th grade class.</i> | Jan 2018 |
| 16. Student Summer Camp Solar Observing
<i>Operated solar telescope for STEM campers ages 7-10.</i> | Jul 2017 |

15. Voorhees High School Talk and Q&A Dec 2016
Talk on research, applying to colleges, and astronomy Q&A.
14. Middle School Astronomy Skype Q&A Nov 2016
Skyped with 4th grade class to answer their astronomy questions.
13. GSU Astronomy Night in Grant Park Nov 2016
Gave constellation tour for over 100 elementary school families.
12. Student Shadowing Sep 2016
Organized high school student shadowing for their senior project.
11. GSU Astronomy Club Talk Sep 2016
Gave opening semester talk to club about black holes.
10. Planet X: Fact or Fiction? Public Debate Sep 2016
Held observing session following public debate.
9. Georgia Buddhist Summer Camp Star Party Jun 2016
Operated HLCO telescopes for 100 adults and children.
8. Voorhees High School Talk: “Astronomy Smorgasbord” Jun 2016
Gave talk on research, graduate school information, and trivia game.
7. Riverstone Montessori School Visit Day Oct 2014
Answered student questions on planet formation for school project.
6. Boy Scouts of America Star Party Apr 2014
Gave NJAA observatory tours & answered questions for 50 scouts.
5. Woodglen Middle School Star Party May 2013
Operated telescopes for middle school families to observe planets.
4. Voorhees High School Transit of Venus Star Party Jun 2012
Operated solar telescopes for public viewing of Venus solar transit.
3. Voorhees High School Talk “Astronomer Q&A” Nov 2012
Gave talk and answered student questions about SATs, college applications.
2. New Jersey Astronomical Association Young Astronomers Night Nov 2011
Assisted with dry ice comet making demonstration for family science night.
1. Woodglen Middle School Family Science Nights Oct 2004
Operated telescope for middle school families to observe an eclipse.

SCIENCE POLICY

2. Citizens for Space Exploration New Jersey Student Representative 2013 - 2017
Conducted 10 days of office meetings in Washington D.C. to promote support from representatives and senate members for NASA funding. Served on student training panel.
1. Graduate Student NSF Information Session 2016 - 2018
Held three Q&A sessions about applying for NSF GRFP with school of graduate studies.

MEDIA

“GSU Graduate Student Profile”	2018 - Click Here
“Graduate Student Awarded NSF Fellowship”	2016 - Click Here
“Research Featured in TCNJ Journal of Student Scholarship”	2015 - Click Here
“A Force to Be Reckoned With”	2014 - Click Here
“TCNJ Researchers Are Headed Overseas to Present Their ... Research”	2014 - Click Here
“Woodglen School Teacher Hosts Star Party for Students and Their Families”	2013 - Click Here
“TCNJ My Way” Profile: Mitchell Revalski	2013 - Click Here
“MUSE Program Kick-Starts Student Research”	2013 - Click Here
“Kepler Satellite Lecture Held in High Bridge”	2012 - Click Here

Updated - September 19, 2019