Natasha E. Batalha

N. 245, NASA Ames, Moffett Field, CA

Studies planetary atmospheres at the nexus of observation and theory, with planets within the Solar System and beyond. Leverages and develops open science theoretical models (climate, spectroscopic, cloud) to determine atmospheric properties from spectroscopic observations of exoplanets and Brown Dwarfs.

Appointments

NASA Ames Research Center

Research Scientist | TOPS Center Champion | OpenCore Project Scientist

Oct 2019 - present

University of California Santa Cruz

UC President's Postdoctoral Fellow

Santa Cruz, CA

Sep 2018 – Sep 2019

Space Telescope Science Institute
Postdoc Science Mission Office
Baltimore, MD
Aug 2017 - Aug 2018

Education

The Pennsylvania State University

Dual PhD, Astronomy/Astrophysics & Astrobiology

Dissertation: A Synergistic Approach to Interpreting Planetary Atmospheres

Cornell University

B.A., Physics

State College, PA

2017

Ithaca, NY

2013

Awards, Fellowships

o 2021: NASA Ames Early Career Award

o 2020: Evans Visiting Lectureship in Exoplanet Science, UC Irvine

o 2018: University California Postdoctoral Fellowship

o 2017: Ford Foundation Fellow, Honorable Mention

o 2017: Alfred P. Sloan Foundation Minority Graudate Scholarship

o 2016: Kavli Student Fellow

o 2015: National Astrobiology Early Career Collaboration Award

o 2015: Stephen B. Brumback Graduate Fellowship in Astrophysics

o 2014: National Science Foundation Graduate Research Fellowship

2013: STEM Scholar Graduate Fellow

Open Science Projects | GitHub: ☆95 №67 ♣3,811 | Zenodo: ♣5,309

o PICASO: https://natashabatalha.github.io/picaso

Enables computation of reflected light, thermal, and transmission spectroscopy for exoplanets and Brown

Dwarfs.

o PandExo: https://natashabatalha.github.io/PandExo

Enables simulations of JWST and HST observations.

o Virga: https://natashabatalha.github.io/Virga

Enables theoretical modeling of exoplanet and Brown Dwarf clouds.

o MAESTRO: https://science.data.nasa.gov/opacities/

Enables broad access to critical opacity data needed for analysis of substellar atmospheres.

Awarded Grants & Observing Time

o **2023**: **Co-I** | JWST-AR-3245

Up to the Task? A New Generation of Atmospheric and Interior Models of Brown Dwarfs for the JWST Era. PI: Mukherjee, S.

• **2023**: **Co-I** | JWST-AR-3207

Lifting the Veil: An Open Source Haze Model for Exoplanet Atmospheric Characterization. Pl: Gao, P.

• **2023**: **Co-I** | JWST-AR-3201

The Utility of Self-Consistent Models and Photochemistry in Understanding Transiting Planet Atmospheres. Pl: Fortney, J.

o 2023: Co-I | Chandra-DDT

A Chandra JWST View of M-Dwarf Rocky Planet Atmospheres. Pl: Howard, W.

• **2023**: **Co-I** | 22-XRP22-2-0083

Estimating pi with PIE: Constraining the Population Proportion of M-Dwarf Planetary Atmospheres with Planetary Infrared Excess. PI: Stevenson, K.

o 2022: Co-I | HST-GO-17183| 122 orbits

Hubble Ultraviolet-optical Survey of Transiting Legacy Exoplanets (HUSTLE) treasury program. PI: Wakeford, H.

o **2021**: **PI** | 21-XRP21-0182

Towards High Metallicity: Integrated Composition-Dependent Molecular Opacities for Modeling Super-Earth to Neptunian Atmospheres. Science PI: Gharib-Nezhad, Ehsan

o **2021**: **PI** | JWST-GO-2512 | 142 hours

Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Framework. Co-PI: Teske, Johanna

o **2021**: Co-I | JWST-GO-2358 | 13.1 hours

Under the Light of a Dead Star: Revealing the Atmospheric Composition of a White Dwarf Planet. Pl: MacDonald, Ryan

o **2021**: Co-I | JWST-GO-2358 | 75.6 hours

Tell Me How I'm Supposed To Breathe With No Air: Measuring the Prevalence and Diversity of M-Dwarf Planet Atmospheres. Pl: Stevenson, Kevin

o **2021**: Co-I | JWST-GO-2667 | 9.2 hours

Good vibrations: Directly measuring Exoplanet aerosol compositions with MIRI spectroscopy. PI: Wakeford, Hannah

o **2021**: Co-I | JWST-AR-1977

Glows in the Dark: New Models for the Atmospheric Structure and Evolution of High Metallicity and. PI: Marley, Mark

o 2021: Subject Level Member | JWST-GTO-1353 | 74.9 hours

Transit and Eclipse Spectroscopy of a Hot Jupiter. Pl. Lewis, N.

o 2020: Subject Level Member | JWST-GTO-1312 | 34.1 hours

Transiting and Eclipse Spectroscopy of a Warm Neptune. Pl: Lewis, N.

o 2020: Subject Level Member | JWST-GTO-1331 | 22 hours

Transit Spectroscopy of TRAPPIST-1e. Pl: Lewis, N.

o 2020: Co-I | Interdisciplinary Consortia for Astrobiology Research

Follow the Volatiles: Tracing chemical species relevant to habitability from proto-planetary disks to exoplanet atmospheres. PI: Batalha, N.M.

o 2020: Co-I | HST-GO-16180

Constructing the First Spectroscopic, Multi-Dimensional Map of a Hot Jupiter. Pl: Kataria, T

o 2020: Co-I | Gemini 2020-LP

A high-resolution survey of molecular abundances in transiting exoplanet atmospheres. PI: Mansfield, M.

o 2019: Co-I | HST-GO-15836

A deep look into the atmosphere of an exoplanet around a pre-main sequence star. PI: Newton, E.

o 2019: Collaborator | Planetary Data Archiving, Restoration, and Tools

Enhancing capabilities of the HITRAN and HITEMP molecular spectroscopic databases for planetary research. PI:Gordon, I.

o **2019**: **Science PI** | NASA Unsolicited Proposal

Community Tool for Computing, Manipulating and Visualizing Molecular and Atomic Opacities. PI:Lewis, N. K.

o 2017: Co-I | JWST-ERS-1366

The Transiting Exoplanet Community Early Release Science Program. PI: Batalha, N.M.

o 2017: Co-I | HST-GO-14918

Definitive Measurement of WASP-17b's Water Abundance in Preparation of JWST. Pl: Wakeford, H.R.

Professional Service

REFEREE: AAS, MNRAS

PANELIST: TESS, HST, ROSES MEMBER: AAS, DPS, SACNAS

COMMITTEES: 2020-p: Planetary Data System User Committee

2019-p: ExoPAG Executive Committee

Organizer: 2021: Division of Planetary Science Meeting

2020: ExoExplorers Program

2015: AbGradCon

2014: Emerging Researchers in Exoplanet Symposium

CHAIR: 2021-p: Bay Area Exoplanet Meeting

LEAD: 2022-2023:Open Source Science Community Building: Module Lead for Open Results

Broader Impacts

o 2021-p: Subject Matter Expert, Chabot Space Science Center

Regular speaker on topics related to NASA's search for life beyond year, women in STEM, and diversity, equity and inclusion within STEM

o 2021-p: Subject Matter Expert, NASA Community College Network

An initiative to bring NASA Subject Matter Experts (SMEs), research findings, and science resources into the nation's community college system

- **2018-p**: Advisor/Instructor, Evergreen Valley Community College Citizen Science Initiative 501(c)3 with the goal of increasing BIPOC students in STEM.
- o 2017: Instructor, Project Favela

501(c)3 with the goal of providing education to students in Rocinha, one of Brazil's largest favelas.

o 2014-2017: Instructor, Centre County Prison Society Education Program

- 501(c)3 with the goal of providing education within the prison system.
- 2015-2017: Director of Programs, Learn to Be Foundation 501(c)3 with the goal of providing underserved K-12 students with free 1-on-1 online tutoring

Research in Media

- Nature Career | Feb. 2023 : Mother-daughter duo work together to find new worlds https://www.nature.com/articles/d41586-023-00580-6
- Clear+Vivid with Alan Alda | Mar. 2022 : Podcast Interview, "Natalie and Natasha Batalha: Looking for Life on Alien Worlds" https://www.youtube.com/watch?v=EKfHnNWo9hc
- Vice News | Dec. 2021 | 15k+ views: The World's Largest Telescope is Leaving Earth https: //www.youtube.com/watch?v=aqI_HXo_Ogs
- Quanta Magazine Mini-Documentary | Dec. 2021 | 1.9M+ views: "The Webb Space Telescope Will Rewrite Cosmic History" https://www.youtube.com/watch?v=shPwW11MEHg
- Quanta Magazine Feature | Dec. 2021: "The Webb Space Telescope Will Rewrite Cosmic History. If It
 Works." https://www.quantamagazine.org/why-nasas-james-webb-space-telescope-matters-so-much-2
- Emmy Winning CNN Documentary | 2021: "The Hunt for Planet B" Directed by Nathaniel Kan https://www.imdb.com/title/tt13848014/
- UCSC Press | 2021: "Meet the NASA scientist opening up exoplanet research" https://ucscsciencenotes.com/feature/meet-the-nasa-scientist-opening-up-exoplanet-research/
- o NBC News | Dec. 2021 | 15k+ views: "Silicon Valley Scientists Tout Historic Launch of James Webb Space Telescope" https://www.youtube.com/watch?v=EKfHnNWo9hc
- o AirTalk with KPCC NPR | Dec. 2021: "NASA Prepares to Launch Its Most Complicated Telescope to Date: The James Webb" https://www.kpcc.org/show/airtalk/2021-12-07/a-look-into-retail-and-prop
- National Geographic | Dec. 2021: "The James Webb Space Telescope Will Transform our Understanding of Alien Worlds" https://www.nationalgeographic.com/science/article/the-james-webb-space-tele
- o Canadian Broadcast Corporation, The Current with Matt Galloway | Dec. 2021: "The James Webb Space Telescope Gets Ready for Lift-Off" https://www.nationalgeographic.com/science/article/the-james-webb-space-telescope-will-transform-our-understanding-of-alien-worlds/
- NPR KQED News | Apr. 2021 | 1k+ views: "Search for Exoplanets" https://www.youtube.com/watch?v=HD_02wsYlyU&t=921s

Publications | h-index:22 | i10-index: 35 | Citations:2314

- 2023: Mukherjee, S., Batalha, N. E., Fortney, J. J., & Marley, M. S. 2023, ApJ, 942, 71, 10.3847/1538-4357/ac9f48
- 2. **2023**: He, C., Radke, M., Moran, S. E., et al. 2023, Nature Astronomy, in review, arXiv:2301.02745, 10.48550/arXiv.2301.02745
- 3. **2023**: Lustig-Yaeger, J., Fu, G., May, E. M., et al. 2023, Nature Astronomy, in press, arXiv:2301.04191, 10.48550/arXiv.2301.04191
- 4. **2023**: Rustamkulov, Z., Sing, D. K., Mukherjee, S., et al. 2023, Nature, 614, 659, 10.1038/s41586-022-05677-y
- 2023: Ahrer, E.-M., Stevenson, K. B., Mansfield, M., et al. 2023, Nature, 614, 653, 10.1038/s41586-022-05590-4
- 2023: Alderson, L., Wakeford, H. R., Alam, M. K., et al. 2023, Nature, 614, 664, 10.1038/s41586-022-05591-3
- 7. 2023: Feinstein, A. D., Radica, M., Welbanks, L., et al. 2023, Nature, 614, 670, 10.1038/s41586-022-

- 8. **2023**: JWST Transiting Exoplanet Community Early Release Science Team, Ahrer, E.-M., Alderson, L., et al. 2023, Nature, 614, 649, 10.1038/s41586-022-05269-w
- 9. **2023**: MacDonald, R. J., & Batalha, N. E. 2023, Research Notes of the American Astronomical Society, 7, 54, 10.3847/2515-5172/acc46a
- 10. **2023**: Rooney, C. M., Batalha, N. E., & Marley, M. S. 2023a, arXiv e-prints
- 11. **2023**: —. 2023b, submitted ApJ, arXiv:2304.04830, 10.48550/arXiv.2304.04830
- 12. **2023**: Moran, S. E., Stevenson, K. B., Sing, D. K., et al. 2023, ApJL, 948, L11, 10.3847/2041-8213/accb9c
- 13. 2023: Tsai, S.-M., Lee, E. K. H., Powell, D., et al. 2023, Nature, 617, 483, 10.1038/s41586-023-05902-2
- 14. **2023**: Gao, P., Piette, A. A. A., Steinrueck, M. E., et al. 2023, in press ApJL, arXiv:2305.05697, 10.48550/arXiv.2305.05697
- 15. **2023**: Radica, M., Welbanks, L., Espinoza, N., et al. 2023, in press MNRAS, arXiv:2305.17001, 10.48550/arXiv.2305.17001
- 16. **2023**: Madurowicz, A., Mukherjee, S., Batalha, N., et al. 2023, Astronomical Journal, 165, 238, 10.3847/1538-3881/acca7a
- 17. **2023**: Batalha, N. E., Wolfgang, A., Teske, J., et al. 2022, The Astronomical Journal, 165, 14, 10.3847/1538-3881/ac9f45
- 18. 2022: Lipatov, M., Brandt, T. D., & Batalha, N. E. 2022, MNRAS, arXiv:2209.15058. 2209.15058
- 19. **2022**: Sallum, S., Millar-Blanchaer, M. A., Batalha, N., et al. 2022, in Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, Vol. 12184, Ground-based and Airborne Instrumentation for Astronomy IX, ed. C. J. Evans, J. J. Bryant, & K. Motohara, 1218446, 10.1117/12.2630423
- 2022: Skemer, A. J., Stelter, R. D., Sallum, S., et al. 2022, in Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, Vol. 12184, Ground-based and Airborne Instrumentation for Astronomy IX, ed. C. J. Evans, J. J. Bryant, & K. Motohara, 121840I, 10.1117/12.2630577
- 21. **2022**: Mukherjee, S., Fortney, J. J., Batalha, N. E., et al. 2022, The Astrophysical Journal, 938, 107, 10.3847/1538-4357/ac8dfb
- 22. **2022**: Robbins-Blanch, N., Kataria, T., Batalha, N. E., & Adams, D. J. 2022, ApJ, 930, 93, 10.3847/1538-4357/ac658c
- 23. **2022**: Alderson, L., Wakeford, H. R., MacDonald, R. J., et al. 2022, MNRAS, 512, 4185, 10.1093/mn-ras/stac661
- 24. **2022**: Mang, J., Gao, P., Hood, C. E., et al. 2022, ApJ, 927, 184, 10.3847/1538-4357/ac51d3
- 25. **2022**: Rooney, C. M., Batalha, N. E., Gao, P., & Marley, M. S. 2022, ApJ, 925, 33, 10.3847/1538-4357/ac307a
- 26. 2022: Adams, D. J., Kataria, T., Batalha, N. E., Gao, P., & Knutson, H. A. 2022, ApJ, 926, 157, 10.3847/1538-4357/ac3d32
- 27. **2022**: Harman, C. E., Kopparapu, R. K., Stefánsson, G., et al. 2022, PSJ, 3, 45, 10.3847/PSJ/ac38ac
- 28. **2021**: Gharib-Nezhad, E., Marley, M. S., Batalha, N. E., et al. 2021b, ApJ, 919, 21, 10.3847/1538-4357/ac0a7d
- 29. **2021**: Tang, S.-Y., Robinson, T. D., Marley, M. S., et al. 2021, ApJ, 922, 26, 10.3847/1538-4357/ac1e90
- 30. **2021**: Sotzen, K. S., Stevenson, K. B., May, E. M., et al. 2021, The Astronomical Journal, 162, 168, 10.3847/1538-3881/ac0e2c
- 31. **2021**: Briesemeister, Z., Sallum, S., Skemer, A., & Batalha, N. 2021, in Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, Vol. 11823, Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 1182308, 10.1117/12.2594880
- 32. **2021**: Mukherjee, S., Fortney, J. J., Jensen-Clem, R., et al. 2021b, ApJ, 923, 113, 10.3847/1538-4357/ac2d92

- 33. **2021**: Gharib-Nezhad, E., Iyer, A. R., Line, M. R., et al. 2021a, ApJs, 254, 34, 10.3847/1538-4365/abf504
- 34. **2021**: Mukherjee, S., Batalha, N. E., & Marley, M. S. 2021a, ApJ, 910, 158, 10.3847/1538-4357/abe53b
- 35. 2021: Gan, T., Wang, S. X., Teske, J. K., et al. 2021, MNRAS, 501, 6042, 10.1093/mnras/staa3886
- 36. **2020**: Lewis, N. K., Wakeford, H. R., MacDonald, R. J., et al. 2020, ApJL, 902, L19, 10.3847/2041-8213/abb77f
- 37. **2020**: Hayworth, B. P. C., Kopparapu, R. K., Haqq-Misra, J., et al. 2020, Icarus, 345, 113770, 10.1016/j.icarus.2020.113770
- 38. **2019**: Wakeford, H. R., Lewis, N. K., Fowler, J., et al. 2019, AJ, 157, 11, 10.3847/1538-3881/aaf04d
- 39. **2019**: Mayorga, L. C., Batalha, N. E., Lewis, N. K., & Marley, M. S. 2019, AJ, 158, 66, 10.3847/1538-3881/ab29fa
- 40. **2019**: Batalha, N. E., Marley, M. S., Lewis, N. K., & Fortney, J. J. 2019b, ApJ, 878, 70, 10.3847/1538-4357/ab1b51
- 41. 2019: Batalha, N. E., Lewis, T., Fortney, J. J., et al. 2019a, ApJL, 885, L25, 10.3847/2041-8213/ab4909
- 42. **2019**: Batalha, N. E., Smith, A. J. R. W., Lewis, N. K., et al. 2018c, AJ, 156, 158, 10.3847/1538-3881/aad59d
- 43. **2018**: Moran, S. E., Hörst, S. M., Batalha, N. E., Lewis, N. K., & Wakeford, H. R. 2018, AJ, 156, 252, 10.3847/1538-3881/aae83a
- 44. **2018**: Blumenthal, S. D., Mandell, A. M., Hébrard, E., et al. 2018, ApJ, 853, 138, 10.3847/1538-4357/aa9e51
- 45. **2018**: Batalha, N. E., Lewis, N. K., Line, M. R., Valenti, J., & Stevenson, K. 2018b, ApJL, 856, L34, 10.3847/2041-8213/aab896
- 46. **2018**: —. 2018a, EPSL, 484, 415, 10.1016/j.epsl.2017.12.018
- 47. **2018**: Kempton, E. M. R., Bean, J. L., Louie, D. R., et al. 2018, PASP, 130, 114401, 10.1088/1538-3873/aadf6f
- 48. **2018**: Bean, J. L., Stevenson, K. B., Batalha, N. M., et al. 2018, PASP, 130, 114402, 10.1088/1538-3873/aadbf3
- 49. 2017: Batalha, N. E., & Line, M. R. 2017, AJ, 153, 151, 10.3847/1538-3881/aa5faa
- 50. 2017: Christiansen, J. L., Vanderburg, A., Burt, J., et al. 2017, AJ, 154, 122, 10.3847/1538-3881/aa832d
- 51. **2017**: Batalha, N. E., Kempton, E. M. R., & Mbarek, R. 2017a, ApJL, 836, L5, 10.3847/2041-8213/aa5c7d
- 52. **2017**: Batalha, N. E., Mandell, A., Pontoppidan, K., et al. 2017b, PASP, 129, 064501, 10.1088/1538-3873/aa65b0
- 53. **2016**: Haqq-Misra, J., Kopparapu, R. K., Batalha, N. E., Harman, C. E., & Kasting, J. F. 2016, ApJ, 827, 120, 10.3847/0004-637X/827/2/120
- 54. **2016**: Batalha, N. E., Kopparapu, R. K., Haqq-Misra, J., & Kasting, J. F. 2016, Earth and Planetary Science Letters, 455, 7, 10.1016/j.epsl.2016.08.044
- 55. **2015**: Batalha, N., Kalirai, J., Lunine, J., Clampin, M., & Lindler, D. 2015b, arXiv e-prints, arXiv:1507.02655. 1507.02655
- 56. **2015**: Batalha, N., Domagal-Goldman, S. D., Ramirez, R., & Kasting, J. F. 2015a, Icarus, 258, 337, 10.1016/j.icarus.2015.06.016
- 57. 2015: Cowan, N. B., Greene, T., Angerhausen, D., et al. 2015, PASP, 127, 311, 10.1086/680855
- 58. **2011**: Agüeros, M. A., Covey, K. R., Lemonias, J. J., et al. 2011, ApJ, 740, 110, 10.1088/0004-637X/740/2/110

Invited Talks, Seminars, Panels & Colloquia

o Jul. 2023: Sagan Summer Workshop PICASO hands on session and speaker

- o Jun. 2023: ExoClimes Keynote
- o Apr. 2023: Department of Astrobiology Colloquium, University of Washington
- o Feb. 2023: EMAC Workshop: Open Access Exoplanet Modeling & Analysis Tools
- o Dec. 2022: AGU Fall Meeting: The Future is Open Panel
- Oct. 2022: Bay Area Open Science Meeting
- o Aug. 2022: ASA-HITRAN
- o May 2022: Exoplanets IV Splinter Session: Enabling Future Comparative Exoplanetology
- o Dec. 2021: UC Berkeley Center for Integrative Planetary Science Seminar
- o Nov. 2021: Department of Astrophysics Colloquium, University of California Santa Cruz
- o Oct. 2021: SACNAS: Exploring the Universe with NASA Astrophysics
- Aug. 2021: European Southern Observatory: Atmospheres, Atmospheres! Do I look like I care about atmospheres?
- Aug. 2021: NASA Ames Summer Series
- July 2021: Sagan Summer Workshop
- June 2021: Scialog: Signatures of Life in the Universe
- o Apr. 2021: College of Science Seminar Series, San Jose State University
- o Nov. 2020: Astronomy & Astrophysics Colloquium, Caltech Institute of Technology
- July 2020: Sagan Summer Workshop
- o Dec. 2019: OWL @ ETH paving the way to the atmospheric characterization of terrestrial exoplanets
- o Dec. 2019: Department of Astronomy Colloquium, University of Michigan
- o Nov. 2019: Carnegie Observatory Colloquium, Pasadena, CA
- o Jul. 2019: Moonshots and Earthshots in the Search for Life Beyond Earth, Green Bank, WV
- o Dec. 2018: Department of Astrobiology Colloquium, University of Washington
- o Nov. 2018: Department of Space Sciences Planetary Lunch Seminar, Cornell University
- o Nov. 2018: Stars and Planets Seminar Series, Harvard Center for Astrophysics
- o Oct. 2018: Department of Astronomy & Astrophysics, University of California Santa Cruz
- o Oct. 2018: Department of Physics Colloquium, University of California Merced
- Jun. 2018: Panelist at Emerging Researchers in Exoplanets Symposium
- o Jun. 2018: Planetary Exploration Group Seminar, JHU Applied Physics Lab
- o Feb. 2018: George Mason University Observatory Public Lecture, Fairfax, VA
- Jul. 2017: Enabling Transiting Exoplanet Observations with JWST Workshop, Space Telescope Science Institute
- o Feb. 2017: School of Earth and Space Exploration Seminar, Arizona State University
- o Aug. 2016: Planetary Systems: A Synergistic View, Quy Nhon, Vietnam
- o Aug. 2016: Department of Terrestrial Magnetism Colloquium, Carnegie Institute
- o Mar. 2016: Planetary Lunch Seminar, Goddard Space Flight Center
- Mar. 2016: Planetary Lunch Seminar, Center for Exoplanets and Habitable Worlds, The Pennsylvania State University
- o Feb. 2016: Seminar, Jet Propulsion Laboratory
- o May 2015: Special Seminar to The Pennsylvania State Board of Visitors
- May 2015: Special Seminar to The Pennsylvania State Dean of Eberly College of Science Advisory Committee

Contributed Talks

- o Sept. 2019: Bay Area Exoplanet Meeting, NASA Ames, CA
- o Aug. 2019: Extreme Solar Systems IV, Reykjavik, Iceland
- o Dec. 2018: Bay Area Exoplanet Meeting, NASA Ames, CA
- o Sept. 2018: Bay Area Exoplanet Meeting, NASA Ames, CA
- o Jul. 2018: Exoplanets II, Cambridge, UK
- o May. 2018: Chesapeake Bay Area Exoplanet Meeting, Carnegie DTM, MD
- o Jan. 2018: Winter AAS Conference, Washington DC
- o Jan. 2017: Winter AAS Conference, Grapevine, Texas
- o Oct. 2016: Division of Planetary Sciences Conference, Pasadena, CA
- o Jan. 2014 : Winter AAS Conference, Washington, DC