

**Contact Information**

Department of Astronomy  
 University of Michigan  
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 Ann Arbor, MI 48109 USA

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 ORCID: 0000-0002-9288-3482

**Education**

**University of Michigan**, Ann Arbor, MI, USA  
 Ph.D. in Astronomy and Astrophysics  
 Advisor: John D. Monnier  
*Shifting the Starspot Paradigm through Imaging Magnetic Structures and Evolution*  
 September 2011–April 2016  
 April 2016

M.S. in Astronomy and Astrophysics  
 NASA/UNCF Harriet G. Jenkins Predoctoral Fellow  
 December 2013  
 2011–2013

**Lehigh University**, Bethlehem, PA, USA  
 M.S. in Physics  
 NASA/UNCF Harriet G. Jenkins Predoctoral Fellow  
 U.S. Dept. of Edu. Graduate Assistance in Areas of National Need Fellow  
 August 2008–May 2011  
 January 2010  
 2010–2011  
 2008–2010

**Ohio Wesleyan University**, Delaware, OH, USA  
 B.A. in Astrophysics and Mathematics, *cum laude*  
 August 2005–May 2008  
 May 2008

**Professional Appointments**

**University of Michigan**, Ann Arbor, MI, USA  
 Assistant Research Scientist  
 Heising-Simons Foundation 51 Pegasi b Prize Postdoctoral Fellow  
 September 2022–present  
 2023–present  
 2022–2025

**Yale University**, New Haven, CT, USA  
 Heising-Simons Foundation 51 Pegasi b Prize Postdoctoral Fellow  
 Yale Center for Astronomy and Astrophysics Prize Postdoctoral Fellow  
 September 2018–August 2022  
 2021–2022  
 2018–2021

**Stockholm University**, Stockholm, Sweden  
 Postdoctoral Research Fellow  
 August 2016–July 2018

**Selected Awards**

- Heising-Simons Foundation 51 Pegasi b Prize Postdoctoral Fellowship, 2021–2025
- Yale Center for Astronomy and Astrophysics Prize Postdoctoral Fellowship, Yale Uni., 2018–2021
- Marie Skłodowska-Curie Individual Fellowship, European Research Council, 2018 (declined)
- Ralph B. Baldwin Prize in Astrophysics and Space Sciences, University of Michigan, 2018
- Olivier Chesneau Prize for the best PhD thesis in high-angular resolution astronomy, Observatoire de la Côte d’Azur/ESO, 2017
- ESO Postdoctoral Fellowship, 2016 (declined)
- NASA Harriet G. Jenkins Predoctoral Fellowship, NASA/UNCF Special Programs, 2010–2013
- Graduate Assistance for Areas of National Need (GAANN) Fellowship, U.S. Dept. of Edu., 2008–2010

**Selected Grants**

- NASA Extreme Precision Radial Velocity Foundation Science Program (PI of “Eliminating the impact of stellar surface features on radial velocities with interferometric images”), 2023–2025
- Leibniz Association Junior Research Group Leader Competition, 2022 (declined)

- NASA Extreme Precision Radial Velocity Foundation Science Program (PI of “Disentangling Stellar and Planetary Signatures with Interferometric Images and Extreme Precision Radial Velocities”), 2021–2023
- Heising-Simons Foundation 51 Pegasi b Prize Postdoctoral Fellowship, 2021–2024
- Yale Center for Astronomy and Astrophysics Postdoctoral Fellowship, 2018–2021
- Marie Skłodowska-Curie Individual Fellowship, European Research Council, 2018 (declined)
- Sigma Xi Grants-in-Aid of Research (two), Sigma Xi National Research Society, 2010 and 2014
- Rackham Graduate Student Research Grant (two), University of Michigan, 2012 and 2013
- *Kepler* Guest Observer Cycle 4 funding (Science PI of “Extreme Starspots”), 2012
- NASA/UNCF Special Programs Harriet G. Jenkins Predoctoral Fellowship, 2010–2013

## **Research Presentations**

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### **Invited Seminars and Colloquia**

- San Francisco State University, San Francisco, CA, USA, 2024
- University of Athens, Athens, Greece, 2023
- University of Michigan, Ann Arbor, MI, USA, 2023
- Extreme Precision RV Fundamental Science Seminar, EPRV Research Coordination Network/JPL, Pasadena, CA, USA, 2022
- NASA Goddard Stars Science Interest Group, Greenbelt, MD, USA, 2022
- Indiana University, Bloomington, IN, USA, 2022
- University of Wisconsin–Madison, Madison, WI, USA, 2021
- California Institute of Technology (tea talk), Pasadena, CA, USA, 2021
- Center for Computational Astrophysics, Flatiron Institute, New York, NY, USA 2020
- Stars & Planets, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA, 2020
- Carnegie Institution of Washington, Washington, D.C., USA, 2020
- Center for Astrobiology, University of Arizona, Tucson, AZ, USA, 2020
- University of California–Riverside, Riverside, CA, USA, 2019
- Georgia State University, Atlanta, GA, USA, 2019
- Boston University, Boston, MA, USA, 2019
- Kavli Institute for Theoretical Physics, University of California–Santa Barbara, Santa Barbara, CA, USA, 2019
- American Museum of Natural History, New York City, NY, USA, 2019
- University of Delaware, Newark, DE, USA, 2019
- Konkoly Observatory of the Hungarian Academy of Sciences, Budapest, Hungary, 2019
- Yale University, New Haven, CT, USA, 2018
- Newcastle University, Newcastle upon Tyne, United Kingdom, 2018
- NASA Goddard Space Flight Center, Greenbelt, MD, USA, 2018
- University of Oslo, Oslo, Norway, 2018
- University of Michigan, Ann Arbor, MI, USA, 2018 (Baldwin Prize lecture)
- University of Exeter, United Kingdom, 2018
- University of Chicago, Chicago, IL, USA, 2018
- Konkoly Observatory of the Hungarian Academy of Sciences, Budapest, Hungary, 2017
- Onsala Space Observatory, Chalmers University of Technology, Onsala, Sweden, 2017
- Uppsala University, Uppsala, Sweden, 2016
- Stockholm University, Stockholm, Sweden, 2016
- Vanderbilt University, Nashville, TN, USA, 2015
- Tuorla Observatory, University of Turku, Turku, Finland, 2015
- Radio & Geoastronomy Division, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA,

USA, 2015

- Ohio Wesleyan University, Delaware, OH, USA, 2014

### Invited Conference Presentations

- Know Thy Star, Know Thy Planet 2, Pasadena, CA, USA, 2025
- AAS Special Session on Optical Long Baseline Interferometry: your next essential research tool, New Orleans, LA, USA, 2024
- AAS Splinter Session on NN-Explore's Extreme Precision Radial Velocity Initiative, New Orleans, LA, USA, 2024
- The Alpha Centauri System: Towards New Worlds, Nice, France, 2023
- CHARA Array Imaging and Modeling Workshop, Atlanta, GA, USA, 2023
- AAS Splinter Session on NASA-NSF Ground-based Support for Exoplanet Discovery and Characterization, Seattle, WA, USA, 2023
- Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun 21, Toulouse, France, 2022
- ESO Workshop on the Star-Planet Connection Workshop, ESO remote workshop, 2021
- CHARA Collaboration Meeting, virtual conference, 2021
- SPIE Astronomical Telescopes + Instrumentation, Optical and Infrared Interferometry and Imaging, Virtual Meeting, 2020
- TASC5/KASC12 Workshop, Cambridge, MA, USA, 2019
- High Angular Resolution View of Stars splinter, AAS Meeting 233, Seattle, WA, USA, 2019
- Observing techniques, instrumentation, and science for metre-class telescopes II, Tatranská Lomnica, Slovakia, 2018
- ESO Workshop on Imaging of Stellar Surfaces, Garching, Germany, 2018
- The Physics of Evolved Stars II: the role of binarity, Nice, France, 2017 (Chesneau Prize lecture)
- Solar-Stellar Connections Workshop, Ann Arbor, MI, USA, 2015
- Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun 18, Flagstaff, AZ, USA, 2014 (in Stellar Surfaces with High Spatial and Temporal Resolution splinter)

### Refereed Articles, First Author

- 11. Roettenbacher, R. M.**, Cabot, S. H. C., Fischer, D. A., +28 coauthors  
2022, AJ, 163, 19  
"EXPRES. III. Stellar Activity Signatures of the Planet-Hosting  $\epsilon$  Eridani"
- 10. Roettenbacher, R. M.** *Invited Review*  
2019, Contr. of the Astr. Obs. Skalnaté Pleso, Slovakia, 49, 97  
"Interferometry with Meter-Class Telescopes"
- 9. Roettenbacher, R. M.** & Vida, K.  
2018, ApJ, 868, 3  
"The connection between starspots and flares on main-sequence *Kepler* stars"
- 8. Roettenbacher, R. M.** & Kane, S. R.  
2017, ApJ, 851, 77  
"The Stellar Activity of TRAPPIST-1 and Consequences for the Planetary Atmospheres"
- 7. Roettenbacher, R. M.**, Monnier, J. D., Korhonen, H., +7 coauthors  
2017, ApJ, 849, 120  
"Contemporaneous imaging comparisons of the spotted giant  $\sigma$  Geminorum using interferometric, spectroscopic, and photometric data"
- 6. Roettenbacher, R. M.**, Kane, S. R., Monnier, J. D., & Harmon, R. O.  
2016, ApJ, 832, 207  
"KOI-1003: A new spotted, eclipsing RS CVn binary in the *Kepler* field"

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5. **Roettenbacher, R. M.**, Monnier, J. D., Korhonen, H. +12 coauthors  
2016, *Nature*, 533, 217  
“No Sun-like dynamo on the active star  $\zeta$  Andromedae from starspot asymmetry”
  4. **Roettenbacher, R. M.**, Monnier, J. D., Fekel, F. C., +14 coauthors  
2015, *ApJ*, 809, 159  
“Detecting the Companions and Ellipsoidal Variations of RS CVn Primaries: II.  $\alpha$  Draconis, a Candidate for Low-Mass Companion Ingestion”
  3. **Roettenbacher, R. M.**, Monnier, J. D., Henry, G. W., +17 coauthors  
2015, *ApJ*, 807, 23  
“Detecting the Companions and Ellipsoidal Variations of RS CVn Primaries: I.  $\sigma$  Geminorum”
  2. **Roettenbacher, R. M.**, Monnier, J. D., Harmon, R. O., Barclay, T., & Still, M.  
2013, *ApJ*, 767, 60  
“Imaging Starspot Evolution on Kepler Target KIC 5110407 Using Light-Curve Inversion”
  1. **Roettenbacher, R. M.**, Harmon, R. O., Vutisalchavakul, N., & Henry, G. W.  
2011, *AJ*, 141, 138  
“A Study of Differential Rotation on II Pegasi via Photometric Starspot Imaging”

### Refereed Articles, Coauthor

*\*indicates significant contribution*

*+ indicates supervised student*

- \*34. Anugu, N., Gies, D. R., **Roettenbacher, R. M.**, +10 coauthors  
Accepted to AAS Journals  
“Time-Evolution Images of the Hypergiant RW Cephei During the Re-brightening Phase Following the Great Dimming”
- \*33. Anugu, N., +3 coauthors, **Roettenbacher, R. M.**, +16 coauthors  
Accepted to AAS Journals  
“CHARA Near-Infrared Imaging of the Yellow Hypergiant Star  $\rho$  Cassiopeiae: Convection Cells and Circumstellar Envelope”
- \*32. Evans, N., +6 coauthors, **Roettenbacher, R. M.**, +14 coauthors  
2024, *ApJ*, 971, 190  
“The orbit and dynamical mass of Polaris: Observations with the CHARA Array”
31. Evans, N., +12 coauthors, **Roettenbacher, R. M.**, +6 coauthors  
Accepted to AAS Journals  
“The orbit and mass of the Cepheid AW Per”
30. Zhao, L. L., +26 coauthors, **Roettenbacher, R. M.**, +11 coauthors  
2023, *AJ*, 166, 173  
“The EXPRES Stellar-Signals Project III. Combining Solar Data from HARPS, HARPS-N, EXPRES, and NEID”
- +\*29. Korolik, M., **Roettenbacher, R. M.**, Fischer, D. A., +16 coauthors  
2023, *AJ*, 166, 123  
“Refining the Stellar Parameters of  $\tau$  Ceti: a Pole-on Solar Analog”
28. Anugu, N., +13 coauthors, **Roettenbacher, R. M.**, +3 coauthors  
2023, *AJ*, 166, 78  
“The Great Dimming of the hypergiant star RW Cephei: CHARA Array images and spectral analysis”
- \*27. Brewer, J. M., Zhao, L. L., Fischer, D. A., **Roettenbacher, R. M.**, +6 coauthors  
2023, *AJ*, 166, 46

- “EXPRES. IV. Two Additional Planets Orbiting  $\rho$  Corona Borealis Reveal Uncommon System Architecture”
26. Zhao, L. L., +6 coauthors, **Roettenbacher, R. M.**, +3 coauthors  
2023, *Nature Astronomy*, 7, 366  
“Measured Spin-Orbit Alignment of Ultra-Short Period Super-Earth 55 Cancri e”
25. Rackham, B. V., +34 coauthors, **Roettenbacher, R. M.**, +25 coauthors  
2022, Study Analysis Group 21 Report  
“The effect of stellar contamination on low-resolution transmission spectroscopy: needs identified by NASA’s Exoplanet Exploration Program Study Analysis Group 21”
24. Zhao, L. L., +38 coauthors, **Roettenbacher, R. M.**, +4 coauthors  
2022, *AJ*, 163, 171  
“The EXPRES Stellar-Signals Project II. State of the Field in Disentangling Photospheric Velocities”
23. Gardner, T., +8 coauthors, **Roettenbacher, R. M.**, +4 coauthors  
2021, *ApJ*, 921, 41  
“Establishing  $\alpha$  Oph as a Prototype Rotator: Precision Orbit with new Keck, CHARA, and RV Observations”
22. Norris, R. P., +18 coauthors, **Roettenbacher, R. M.**, +6 coauthors  
2021, *ApJ*, 919, 124  
“Long Term Evolution of Surface Features on the Red Supergiant AZ Cyg”
21. Martinez, A. O., Baron, F., Monnier, J. D., **Roettenbacher, R. M.**, & Parks, J. R.  
2021, *ApJ*, 916, 60  
“Dynamical 3D Interferometric Imaging of  $\lambda$  Andromedae”
- \*20. Korhonen, H., **Roettenbacher, R. M.**, +8 coauthors  
2021, *A&A*, 646, 6  
“Observing the changing surface structures of  $\sigma$  Gem with SONG”
- +\*19. Cabot, S. H. C., **Roettenbacher, R. M.**, +4 coauthors  
2021, *AJ*, 161, 26  
“EXPRES. II. Searching for Planets around Active Stars: A Case Study of HD 101501”
- \*18. Kane, S. R., **Roettenbacher, R. M.**, Unterborn, C. T., Foley, B. J., & Hill, M. L.  
2020, *PAJ*, 1, 36  
“Atmosphere Sustainability of LHS 3844b”
17. Gallenne, A. +10 coauthors, **Roettenbacher, R. M.**, +1 coauthor  
2019, *A&A*, 622, 164  
“Multiplicity of Galactic Cepheids from long-baseline interferometry. IV. New detected companions from MIRC and PIONIER observations”
16. Gallenne, A. +13 coauthors, **Roettenbacher, R. M.**, +6 coauthors  
2018, *ApJ*, 867, 121  
“A geometrical 1% distance to the short-period binary Cepheid V1334 Cygni”
15. De Rosa, G. +75 coauthors, **Roettenbacher, R. M.**, +25 coauthors  
2018, *ApJ*, 866, 133  
“Velocity-resolved reverberation mapping of five bright Seyfert 1 galaxies”
- \*14. Hoard, D. W., Howell, S. B., **Roettenbacher, R. M.**, +3 coauthors  
2018, *AJ*, 156, 119  
“Kepler, Spitzer, and Hubble observations of the variable white dwarf BOKS 53856: Non-uniform metal absorption in dark spots”
- \*13. Vida, K. & **Roettenbacher, R. M.**  
2018, *A&A*, 616, 163

- “Finding flares in *Kepler* data using machine-learning tools”
12. Schaefer, G. H., Cassan, A., Gallenne, A., & **Roettenbacher, R. M.**  
2018, *Exp. Astron.*, 46, 421  
“Interferometry in the Era of Time-Domain Astronomy”
  11. Gardner, T., +13 coauthors, **Roettenbacher, R. M.**, +5 coauthors  
2018, *ApJ*, 855, 1  
“Precision orbit of  $\delta$  Delphini and prospects for astrometric detection of exoplanets”
  - \*10. Hummel, C. A., Monnier, J. D., **Roettenbacher, R. M.**, +12 coauthors  
2017, *ApJ*, 844, 115  
“Orbital elements and stellar parameters of the active binary UX Arietis”
  9. Kochukhov, O., +10 coauthors, **Roettenbacher, R. M.**, +1 coauthor  
2017, *AN*, 338, 428  
“Surface magnetism of cool stars”
  8. Gallenne, A., +4 coauthors, **Roettenbacher, R. M.**, +8 coauthors  
2016, *MNRAS*, 461, 1451  
“Multiplicity of Galactic Cepheids from long-baseline interferometry. III. Constraints on the new spectroscopic companion of  $\delta$  Cephei”
  7. Gallenne, A., +7 coauthors, **Roettenbacher, R. M.**, +9 coauthors  
2015, *A&A*, 579, 68  
“Robust high-contrast companion detection from interferometric observations. The CANDID algorithm and an application to six binary Cepheids”
  6. Schaefer, G. H., +24 coauthors, **Roettenbacher, R. M.**, +11 coauthors  
2014, **Nature**, 515, 234  
“The expanding fireball of Nova Delphini 2013”
  5. White, T. R., +9 coauthors, **Roettenbacher, R. M.**, +10 coauthors  
2013, *MNRAS*, 433, 1262  
“Interferometric radii of bright Kepler stars with the CHARA Array:  $\theta$  Cygni and 16 Cygni A and B”
  4. Barclay, T., Still, M., Jenkins, J. M., Howell, S. B., & **Roettenbacher, R. M.**  
2012, *MNRAS*, 422, 1219  
“Serendipitous Kepler observations of a background dwarf nova of SU UMa type”
  3. Napoli, V. J., McSwain, M. V., Marsh Boyer, A. N., & **Roettenbacher, R. M.**  
2011, *PASP*, 123, 1262  
“The Distance of the Gamma-ray Binary 1FGL J1018.6-5856”
  2. McSwain, M. V., +7 coauthors, **Roettenbacher, R. M.**  
2010, *AJ*, 139, 857  
“Multiwavelength Observations of the Runaway Binary HD 15137”
  1. Aragona, C., +3 coauthors, **Roettenbacher, R. M.**, +3 coauthors  
2009, *ApJ*, 698, 514  
“H $\alpha$  Emission Variability in the  $\gamma$ -ray Binary LS I +61 303”

## Contributed Articles

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15. Vida, K., Seli, B., **Roettenbacher, R. M.**, +4 coauthors  
2024, *Proc. IAU Symp.*, 388  
“Searching for stellar CMEs in the Praesepe and Pleiades clusters”
14. **Roettenbacher, R. M.** *Invited Review (slides)*  
2022, *Proc. of Cambridge Workshop on Cool Stars, Stellar Systems and the Sun*, 21

- “Revealing the Surfaces of Stars with Interferometric Imaging”
13. **Roettenbacher, R. M.** *Invited Review (slides)*  
2021, Star-Planet Connection, ESO Online Workshop, 25  
“The Impact of Stellar Activity on Our Ability to Detect Exoplanets”
  12. **Roettenbacher, R. M.** *Invited Review*  
2020, SPIE, 11446, 11446-8  
“Imaging Stellar Surfaces”
  11. Zhao, L., + 3 coauthors, **Roettenbacher, R. M.**, +1 coauthor  
2020, RNAAS, 4, 9  
“The EXPRES Stellar-signals Project. I. Description of Data”
  10. Ridgway, S., +7 coauthors, **Roettenbacher, R. M.**, +1 coauthor  
2019, BAAS, 51g, 157  
Astro2020 Decadal Survey APC white paper  
“Revitalizing the Optical/Infrared Interferometry Community in the U.S.”
  9. **Roettenbacher, R. M.**, Norris, R. P., Baron, F., +9 coauthors  
2019, BAAS, 51c, 181  
Astro2020 Decadal Survey science white paper  
“High Angular Resolution Astronomy: Resolving Stellar Surface Features”
  8. **Roettenbacher, R. M.**  
2016, Aeon Magazine, ed. C. S. Powell  
“How the face of a distant star reveals our place in the cosmos”
  7. **Roettenbacher, R. M.**, Monnier, J. D., Che, X., +8 coauthors  
2015, Proc. of Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, 18, 907  
“Pushing the (Convective) Envelope: Imaging Spotted Stellar Surfaces with Optical Interferometry”
  6. **Roettenbacher, R. M.**, Monnier, J. D., & Harmon, R. O.  
2015, Proc. of Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, 18, 377  
“Investigating the Flare Activity of the Spotted Kepler Star KIC 5110407”
  5. **Roettenbacher, R. M.**, Monnier, J. D., Harmon, R. O., & Korhonen H.  
2014, Proceedings IAU Symp., 302, 212  
“The new age of spotted star research using Kepler and CHARA”
  4. **Roettenbacher, R. M.** & McSwain, M. V.  
2011, Proc. IAU Symp., 272, 545  
“Light curves of the Be stars of NGC 3766”
  3. Grundstrom, E. D., +6 coauthors, **Roettenbacher, R. M.**, +2 coauthors  
2011, Proc. IAU Symp., 272, 290  
“Spectroscopic H $\alpha$  and H $\gamma$  survey of field Be stars: 2004-2009”
  2. Grundstrom, E. D., +4 coauthors & **Roettenbacher, R. M.**  
2011, Proc. Liège Astrophysical Colloquium, 80, 371  
“Observations of Be Disk Building: Optical Spectra of NW Ser (HD 168797) over 35 days”
  1. **Roettenbacher, R. M.**, Amouzou, E. C., & McSwain, M. V.  
2010, Proc. IAU Symp., 266, 518  
“Nonradial pulsations in the open cluster NGC 3766”

## Leadership Activities

- Steering Committee of the NASA Extreme Precision Radial Velocity Research Coordination Network, 2022–present
- Science Program Committee, SPIE Astronomical Telescopes + Instrumentation, Optical and Infrared Interferometry and Imaging VII-IX, 2020 (virtual), 2022 (Montréal, Canada), 2024 (Yokohama, Japan)
- Science Organizing Committee, 21st Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, 2022
- Science Organizing Committee, The Sharpest Eyes on the Sky: High Angular Resolution Astronomy Workshop, 2022
- Contributing author, NASA Exoplanet Group’s Study Analysis Group 21 Report “Final Report for SAG 21: The Effect of Stellar Contamination on Space-based Transmission Spectroscopy”, 2022
- Science Organizing Committee, 20.5th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, virtual conference, 2021
- Science Organizing Committee, TESS Ninja 2 Collaborative Workshop, 2019, Chicago, IL, USA
- Co-organizer of Cool Stars 20 splinter session (Know Thy Starspot, Know Thy Star), Boston, MA, USA, 2018
- Science Organizing Committee, 9th VLTI Summer School, Lisbon, Portugal, 2018
- Co-founder and organizer, Visibility in Interferometry, promotion of underrepresented groups in interferometry, 2018–present
- Science Team and Working Group Member, Stellar Parameters and Images with a Cophased Array (SPICA), 6-beam visible combiner for the CHARA Array, 2018–present

## Observing Experience

All Proposals as PI

- 18 proposals (139 total nights), CHARA Array
- 3 proposals (44 hours, across 57 nights), CTIO SMARTS 1.3m
- 3 proposal (30 nights), MDM 2.4m and 1.3m
- 3 proposals (82.25 hours), VLTI
- 1 proposal (330 hours/200 orbits), CHEOPS
- 1 proposal (36,000 ks), Swift
- 1 proposal (1 night), KPNO 4m

## Teaching Experience

- **Undergraduate Student Research Advisor**, 2021–present  
Advising a Yale University undergraduate student on a project investigating fundamental stellar parameters with EXPRES and the CHARA Array
- **Graduate Student Project Advisor**, 2020–2022  
Guiding the development of a Yale University graduate student’s project developing RV modeling tools
- **Center for Integration of Research, Teaching, and Learning (CIRTL) Network, Massive Open Online Course (MOOC)**, 2018  
An Introduction to Evidence-Based Undergraduate STEM Teaching Completion certificate with distinction
- **Undergraduate Student Research Co-Advisor**, 2017–2019  
Co-advising a University of Chicago undergraduate student on a project on stellar activity in



the *Kepler* field.

- **PhD Student Research Co-Advisor**, 2017–2018  
Advising a Stockholm University PhD student on a project on stellar activity and the solar-stellar connection.
- **Graduate Student Instructor Mentor, University of Michigan**, 2014–2015  
Oversaw graduate student instructors for introductory astronomy classes.  
Provided graduate student instructors with teaching guidance.
- **Graduate Student Instructor, University of Michigan**, Winter 2011  
Taught introductory astrophysics laboratories (ASTRO 201).
- **Teaching Assistant, Lehigh University**, Fall 2009  
Taught introductory physics recitation (PHY 11).
- **Teaching Assistant, Lehigh University**, Fall 2008  
Taught introductory astronomy laboratories (PHY 8 & ASTR 8).

## Service and Outreach Activities

- Referee for AAS Journals, A&A, PASP, Nature Astronomy, and others, 2015–present
- Reviewer of proposals for NSF, NASA, ERC, and others, 2019–present
- Attendee, NASA PI Launchpad, Ann Arbor, MI, USA, 2023
- Yale University Internal Palomar/Keck Observatory TAC, 2020A–2022B
- Alumni Mentor, Ohio Wesleyan University’s Real World 101 Program, 2022
- Presenter for Astronomy on Tap New Haven, 2020
- Co-organizer, Yale Astronomy & Astrophysics Colloquium Series, 2019–2020
- Mentor, AstroSibs, Mentoring of Yale undergraduates majoring in astronomy, 2018–2020
- Attendee, Early Career Focus Session for the Decadal Survey for Astronomy & Astrophysics, 2018
- Stars and Planets Group Meeting creator and leader, Stockholm University, 2017–2018
- Participant for STEM Voices and Astronomisk Ungdom (Sweden) podcasts, 2017, 2019
- PhD candidate selection committee, Stockholm University, 2016
- Chambliss Award Judge for the AAS, 2016, 2019
- Astrocoffee Organizer, morning astro-ph discussion, 2013–2015
- University of Michigan Internal Magellan/MDM Observatory TAC, 2015A
- Local Organizing Committee, CHARA Collaboration Meeting, Ann Arbor, MI, USA, 2014
- University of Michigan Internal SWIFT TAC, 2014A