Brandon Radzom

PHD CANDIDATE · ASTRONOMY

Indiana University, Department of Astronomy, 727 East 3rd Street, Swain West 324, Bloomington, IN 47405-7105, USA

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| Education | 1 | | | |
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| PH.D. ASTROM • Thesis: Obs | rersity (IU) - Bloomington NOMY Servational and Numerical Constraints on the Origins of Short-period Gaseous Giants of Songhu Wang | Bloomington, IN 47405-7000 Aug. 2020 - May 2026 | | |
| M.A. Astrono | | Aug. 2020 - May 2023 | | |
| | | M 10// 50700 1507 | | |
| B.S. ASTRONO • Minor: Com • Thesis: Cha | f Wisconsin (UW) - Madison MY-PHYSICS, B.S. PHYSICS Inputer Science Irracterizing AGN Activity in the SSA22 Field of. Amy Barger | Madison, WI 53706-1507 Sept. 2016 - May 2020 | | |
| Professio | nal Experience | | | |
| 2021- 2020-2024 2018-2022 2017-2020 | Graduate Research Assistant, Dept. of Astronomy, IU-Bloomington Graduate Associate Instructor, Dept. of Astronomy, IU-Bloomington Undergraduate Research Assistant, Dept. of Astronomy, UW-Madison Undergraduate Research Assistant, Dept. of Physics, UW-Madison | | | |
| Awards & Grants | | | | |
| Proposals | i e e e e e e e e e e e e e e e e e e e | | | |
| 2025-2026 | Co-PI: Indiana Outreach Project Space Grant, NASA | \$5,550 | | |
| Brandon T. Radzom, Samir Salim, et al: "PyIU: Python Workshops to Forge Future Astronomers in Indiana" | | | | |
| FELLOWSHI | ps & Honors | | | |
| 2025 | College of Arts and Sciences Dissertation Research Fellowship, IU-Bloomington Carl Sagan Workshop Travel Support Award, NExSci/Caltech | \$24,000 | | |
| | Joseph & Frances Morgan Swain Graduate Fellowship, IU-Bloomington | \$1,000 | | |
| | Sullivan Research Fellowship, Dept. of Astronomy, IU-Bloomington | \$31,000 | | |
| | Frank and Margaret Edmondson Prize for Teaching, IU-Bloomington | \$500 | | |
| | Goethe Link Prize for Outreach and Public Education in Astronomy, IU-Blooming College of Arts and Sciences Travel Award, IU-Bloomington | gton \$500 \$200 | | |
| | Thesis of Distinction, UW-Madison College of Letters & Science | J200 | | |
| | Lowell Doherty Award for Excellence in Astronomy, Dept. of Astronomy, UW-Mad | lison \$500 | | |
| | Member of the Dean's List, College of Letters & Science, UW-Madison | | | |
| 2019 I | Member of the Dean's List, College of Letters & Science, UW-Madison | | | |
| | Liebenberg Family Undergraduate Research Scholarship, UW-Madison | \$ 2,000 | | |
| | David H. Durra Scholarship, UW-Madison | \$ 3,000 | | |
| | John Karl Scholz Sophomore General Scholarship, UW-Madison | \$ 500 | | |
| | Member of the Dean's List, College of Letters & Science, UW-Madison | ćroo | | |
| 2016 1 | Memorial Scholarship, Anoka High School | \$ 500 | | |

Software Skills _____

- Programming languages: Python, MATLAB, C++, Java, LabView
- Misc: git & GitHub, Linux shell, VS Code, HTML, ŁTFX, Maple, Mathematica, Windows Office Suite

Publications

REFEREED

- **Brandon T. Radzom**, Songhu Wang, Bonan Pu, and Malena Rice 2025. *Post-disk Evolution of Short-Period Gas Giants in Compact Multi-planet Systems: A Mechanism to Produce the Observed Companionship Dichotomy*, submitted to ApJ
- **Brandon T. Radzom**, Jiayin Dong, Malena Rice, Xian-Yu Wang, Kyle Hixenbaugh, George Zhou, Chelsea X. Huang, Songhu Wang 2025. *Evidence for Primordial Alignment II: Insights from Stellar Obliquity Measurements for Hot Jupiters in Compact Multi-planet Systems*, AJ 169 189
- R. Kent Honeycutt, Jeff Robertson, **Brandon T. Radzom** 2025. Stunted Outbursts and Z Cam-like Behaviors in the Long-term Light Curves of Novalike Cataclysmic Variables, ApJS 277 29
- Cassandra Seltzer, Rudi Lien, **Brandon T. Radzom**, et al. 2025. *THUNDER: A Titan orbiter mission concept for the New Frontiers program*, PSJ 6 45
- **Brandon T. Radzom**, Jiayin Dong, Malena Rice, Xian-Yu Wang, Samuel W. Yee, Tyler R. Fairnington, Cristobal Petrovich, Songhu Wang 2024. *Evidence for Primordial Alignment: Insights from Stellar Obliquity Measurements for Compact Sub-Saturn Systems*, AJ, 168 116
- Jack Lubin, Xian-Yu Wang, Malena Rice, Jiayin Dong, Songhu Wang, **Brandon T. Radzom**, et al. 2023. *TOI-1670 c, a 40 day Orbital Period Warm Jupiter in a Compact System, Is Well Aligned*, ApJL, 959 L5
- **Brandon T. Radzom**, Anthony J. Taylor, Amy J. Barger, Lennox L. Cowie 2022. *X-ray Sources in the Chandra Field SSA22*, ApJ, 940 114
- Xian-Yu Wang, Malena Rice, Songhu Wang, Bonan Pu, Gudmundur Stefánsson, Suvrath Mahadevan, **Brandon T. Radzom**, et al. 2022. *The Aligned Orbit of WASP-148 b*, the Only Known Hot Jupiter with a Nearby Warm Jupiter Companion, from NEID and HIRES, ApJL, 926 L8

Non-Refereed

W. Garrett Levine, **Brandon T. Radzom** et al. 2025. *Emerging Researchers in Exoplanetary Science (ERES) Symposium: Developing Community-Driven Mission & Vision Statements*, to be submitted to BAAS

Brandon T. Radzom 2020. Characterizing AGN Activity in the SSA22 Field, UW-Madison Dept. of Astronomy Senior Thesis

Presentations _____

PROFESSIONAL TALKS

- Flash Talk. Evidence for Primordial Alignment: Insights from Stellar Obliquity Measurements for Compact Giant Systems. Carl Sagan Summer Workshop, Caltech, July 21–25 2025.
- Contributed Talk. Evidence for Primordial Alignment: Insights from Stellar Obliquity Measurements for Compact Giant Systems. ERES IX, Cornell University, July 2024.
- Seminar Talk. NASA PSSS: A Lightning-Fast Lesson in Mission Design and the THUNDER That Follows. Astronomy Seminar, IU, January 2024.
- Contributed Talk. *Post-formation Dynamics: A Mechanism to Explain the Companionship Properties of Hot and Warm Jupiters*. Great Lakes Exoplanet Area Meeting (GLEAM), IU, October 27-28, 2023.
- Invited Talk. Measuring Stellar Obliquities To Constrain the Origins of Exoplanets. Virtual WIYN Board Meeting, October 2023.
- Contributed Talk. Post-disk Dynamical Evolution: A Mechanism to Explain the Companionship Dichotomy Between Hot Jupiters and Warm Jupiters. Division on Dynamical Astronomy Meeting #54, Michigan State University, May 2023.
- Contributed Talk. In Situ Origins of Hot Jupiter Isolation. GLEAM 2022, The Ohio State University, November 2022.

Seminar Talk. The X-ray Luminosity Function of Optically Narrow and Broad-line AGNs Out To $z\sim 4$. Astronomy Seminar, IU, September 2020.

PUBLIC TALKS

Exoplanets in the Media: Fact or Fantasy? Astronomy on Tap, Bloomington, IN, September 2024.

Astronomy in the News: NASA's DART Mission. Astronomy on Tap, Bloomington, IN, March 2024.

The Night Sky. Indiana Master Naturalist Astronomy Event, Bloomington, IN, October 2021.

CONFERENCE POSTERS

- **Brandon T. Radzom**, et al. (2025) "Evidence for Primordial Alignment: Insights from Stellar Obliquity MEasurements for Compact Giant Systems", Carl Sagan Summer Workshop. July 21-25, 2025.
- **Brandon T. Radzom**, et al. (2025) "PyIU Python Workshops: Forging Future Astronomers in Indiana", Spring 2025 Statewide Engagement Institute. March 13, 2025. 10.5281/zenodo.15015534
- **Brandon T. Radzom**, et al. (2024) "Evidence for Primordial Alignment: Insights from Stellar Obliquity Measurements for Compact TESS Systems", TESS Science Conference 3, July 29-August 2, 2024. 10.5281/zenodo.13117605
- Cassandra Seltzer, Rudi Lein, **Brandon T. Radzom**, et al. (2024) "THUNDER: A New Frontiers-class Titan orbiter mission concept from the NASA JPL Planetary Science Summer School", 55th Lunar and Planetary Science Conference, March 11-15, 2024.
- **Brandon T. Radzom**, Songhu Wang, and Bonan Pu (2022) "In Situ Origins of Hot Jupiters", Emerging Researchers in Exoplanet Science (ERES) VII, July 31-August 2, 2022. 10.5281/zenodo.6944743
- **Brandon T. Radzom**, Amy J. Barger, and Anthony J. Taylor. (2020) "Characterizing AGN Activity in the SSA22 Field", American Astronomical Society Meeting #236, June 1-3, 2020. id.137.03
- Minho Kwon, Christopher Young, Matthew Ebert, Sebastian Malewicz, **Brandon Radzom**, et al. (2018) "Progress toward entanglement of atomic ensemble qubits via Rydberg blockade", International Conference on Atomic Physics, July 22-27, 2018.

Teaching Experience _____

Instructor of Record IU Astronomy Dept.

• Astronomy 100: The Solar System (Summer 2023 & 2024)

Associate Instructor IU Astronomy Dept.

- Astronomy 451: Stellar Astrophysics (Spring 2024)
- Astronomy 305: Modern Observational Techniques (Fall 2023)
- Astronomy 100: The Solar System (Spring 2023)
- Astronomy 107: The Art of Astronomy (Spring 2023, Fall 2020)
- Astronomy 103: Search For Life In The Universe (Fall 2021)
- Astronomy 222: General Astronomy II (Spring 2021)

Guest Lecturer IU Astronomy Dept.

- Astronomy 222: General Astronomy II (Spring 2025)
- Astronomy 100: The Solar System (Spring 2024)
- Astronomy 103: Search for Life in the Universe (Spring 2024)
- Astronomy 515: Exoplanets and Orbital Dynamics (Fall 2023)
- Astronomy 100: The Solar System (Spring 2023)

Community Involvement & Leadership ______

SERVICE

| 2025 Reviewer, Astronomy & Astrophysics Journal Bloomington, IN 2025 Steering Committee Member, Concerned Scientists at IU/Advocates for Science at IU Bloomington, IN 2024-2025 AAS Advocacy Representative, AAS Congressional Visits Day Washington, D.C. 2024-2025 Task Lead, ERES Mission & Vision Committee Bloomington, IN 2023-2025 Seminar Talk Coordinator, IU Astronomy Graduate Leadership Bloomington, IN 2022-2025 Founder and Lead Organizer, PyIU: A Workshop Series on Python Essentials Bloomington, IN 2022-2025 Undergraduate Research Coordinator, IU Astronomy Graduate Leadership Bloomington, IN 2023 SOC & LOC Member, Session Chair, GLEAM 2023 Conference Bloomington, IN 2023 SOC & LOC Member, Session Chair, GLEAM 2023 Conference Bloomington, IN 2019-2020 Vice President, UW-Madison Astronomy Club Madison, WI 2019-2020 Kirkwood Observatory Community & School Partnerships Tour, Tour guide Bloomington, IN 2025 Kirkwood Observatory Media School Staff Tour, Tour guide Bloomington, IN 2025 Kirkwood Observatory Sustainability Class Tour, Tour guide Bloomington, IN 2021-2025 Kirkwood Observa | | Hands-on Session Helper, Carl Sagan Summer Workshop | Pasadena, CA |
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| 2025AAS Advocacy Representative, AAS Congressional Visits DayWashington, D.C.2024-2025Task Lead, ERES Mission & Vision CommitteeBloomington, IN2023-2025Seminar Talk Coordinator, IU Astronomy Graduate LeadershipBloomington, IN2022-2025Founder and Lead Organizer, PylU: A Workshop Series on Python EssentialsBloomington, IN2022-2025Undergraduate Research Coordinator, IU Astronomy Graduate LeadershipBloomington, IN2023SOC & LOC Member, Session Chair, GLEAM 2023 ConferenceBloomington, IN2023Formal Mentor (Arnob Rasul), Alice-Palma Undergraduate Research ProgramBloomington, IN2019-2020Vice President, UW-Madison Astronomy ClubMadison, WI2018-2019Volunteer Coordinator, UW-Madison Astronomy ClubMadison, WI2025Kirkwood Observatory Community & School Partnerships Tour, Tour guideBloomington, IN2025Kirkwood Observatory Media School Staff Tour, Tour guideBloomington, IN2025Kirkwood Observatory Sustainability Class Tour, Tour guideBloomington, IN2022-2025PylU: A Workshop Series on Python Essentials, Instructor, Lecturer, Code DeveloperBloomington, IN2021-2025Kirkwood Observatory Open Nights, Telescope operator & tour guideBloomington, IN2024Astronomy on Tap, Public Speaker: Explanets in the MediaBloomington, IN2024Astronomy on Tap, Public Speaker: MSA's DART MissionBloomington, IN2024Astronomy on Tap, Public Speaker: MSA's DART MissionBloomington, IN2025STEAM Night at McCormick's Creek Elementary, Ast | | | |
| 2024-2025 Task Lead, ERES Mission & Vision Committee 2024, 2025 Informal Mentor, Alice-Palma Undergraduate Research Program Bloomington, IN 2023-2025 Seminar Talk Coordinator, IU Astronomy Graduate Leadership Bloomington, IN 2022-2025 Founder and Lead Organizer, PylU: A Workshop Series on Python Essentials Bloomington, IN 2022-2025 Undergraduate Research Coordinator, IU Astronomy Graduate Leadership Bloomington, IN 2023 Soc & LoC Member, Session Chair, GLEAM 2023 Conference Bloomington, IN 2023 Formal Mentor (Arnob Rasul), Alice-Palma Undergraduate Research Program Bloomington, IN 2019-2020 Vice President, UW-Madison Astronomy Club Madison, WI 2018-2019 Volunteer Coordinator, UW-Madison Astronomy Club Madison, WI 2018-2019 Volunteer Coordinator, UW-Madison Astronomy Club Bloomington, IN 2025 Kirkwood Observatory Media School Staff Tour, Tour guide Bloomington, IN 2025 Kirkwood Observatory Media School Staff Tour, Tour guide Bloomington, IN 2025 PylU: A Workshop Series on Python Essentials, Instructor, Lecturer, Code Developer Bloomington, IN 2021-2025 PylU: A Workshop Series on Python Essentials, Instructor, Lecturer, Code Developer Bloomington, IN 2024 Astronomy on Tap, Public Speaker: Exoplanets in the Media Bloomington, IN 2024 Astronomy on Tap, Public Speaker: Exoplanets in the Media Bloomington, IN 2024 Astronomy on Tap, Public Speaker: INSA'S DART Mission Bloomington, IN 2021-2024 IU Science Fest, Astronomy demo leader Bloomington, IN 2021-2024 IU Science Fest, Astronomy demo leader Bloomington, IN 2021-2024 II US Science Fest, Astronomy demo leader Bloomington, IN 2022 STEAM Night at McCormick's Creek Elementary, Astronomy demo leader Bloomington, IN 2021 Indiana Public Clubs: Streets Paved With Gold (Alpha Phi Alpha), Astronomy demo leader Bloomington, IN 2021 Indiana Master Naturalist Event, Guest Speaker, telescope operator & tour guide Bloomington, IN 2021 Indiana Public Clubs: Streets Paved With Gold (Alpha Phi Alpha), Astronomy demo leader Madison, WI WO WD Abys, UW-Madison Astronomy Physics Dept. | | | · · |
| 2024, 2025Informal Mentor, Alice-Palma Undergraduate Research ProgramBloomington, IN2023-2025Seminar Talk Coordinator, IU Astronomy Graduate LeadershipBloomington, IN2022-2025Founder and Lead Organizer, PylU: A Workshop Series on Python EssentialsBloomington, IN2023SOC & LOC Member, Session Chair, GLEAM 2023 ConferenceBloomington, IN2023Formal Mentor (Arnob Rasul), Alice-Palma Undergraduate Research ProgramBloomington, IN2019-2020Vice President, UW-Madison Astronomy ClubMadison, W2018-2019Volunteer Coordinator, UW-Madison Astronomy ClubMadison, WPUBLIC OUTREACHKirkwood Observatory Community & School Partnerships Tour, Tour guideBloomington, IN2025Kirkwood Observatory Media School Staff Tour, Tour guideBloomington, IN2025Kirkwood Observatory Sustainability Class Tour, Tour guideBloomington, IN2021-2025Kirkwood Observatory Open Nights, Telescope operator & tour guideBloomington, IN2021-2025Kirkwood Observatory Open Nights, Telescope operator & tour guideBloomington, IN2024Astronomy on Tap, Public Speaker: Exoplanets in the MediaBloomington, IN2024Astronomy on Tap, Public Speaker: Exoplanets in the MediaBloomington, IN2021-2024IU Science Fest, Astronomy demo leaderBloomington, IN2022-2025Indiana Master Naturalist Event, Guest Speaker, Astronomy demo leaderBloomington, IN2021-2024Indiana Moster Naturalist Event, Guest Speaker, telescope operatorBloomington, IN2022-2023Indiana Master Natural | | | Washington, D.C. |
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| PUBLIC OUTREACH 2025 Kirkwood Observatory Community & School Partnerships Tour, Tour guide Bloomington, IN 2025 Kirkwood Observatory Media School Staff Tour, Tour guide Bloomington, IN 2025 Kirkwood Observatory Sustainability Class Tour, Tour guide Bloomington, IN 2022-2025 PylU: A Workshop Series on Python Essentials, Instructor, Lecturer, Code Developer Bloomington, IN 2021-2025 Kirkwood Observatory Open Nights, Telescope operator & tour guide Bloomington, IN 2024 Astronomy on Tap, Public Speaker: Exoplanets in the Media Bloomington, IN 2024 Boy Scout Astronomy Night, Observatory Tour Guide Bloomington, IN 2024 Astronomy on Tap, Public Speaker: NASA's DART Mission Bloomington, IN 2024 Eclipse IU, Solar eclipse viewing aid and guide Bloomington, IN 2024 IU Science Fest, Astronomy demo leader Bloomington, IN 2023 STEAM Night at McCormick's Creek Elementary, Astronomy demo leader Spencer, IN 2023 International Day of Women and Girls in Science, Astronomy demo leader Bloomington, IN 2022, 2023 Indianapolis Children's Museum STEM Exploration Day, Astronomy demo leader Bloomington, IN 2022 Boys and Girls Club: Streets Paved With Gold (Alpha Phi Alpha), Astronomy demo leader Bloomington, IN 2021 Indiana Master Naturalist Event, Guest speaker, telescope operator Bloomington, IN 2020 Girl Scout Astronomy Night, UW-Madison Astronomy Club volunteer Madison, WI 2029 Moon Over Monona Terrace, UW-Madison Astronomy Club volunteer Madison, WI 2029 My UW Days, UW-Madison Astronomy Physics Dept. representative Madison, WI 2020 UW Space Place OAO-2 Anniversary Event, Orbital Astronomical Observatory (OAO) guide Madison, WI 2020 UW STEM Immersion Day, UW Astronomy/ Astronomy Club volunteer Madison, WI 2020 UW STEM Immersion Day, UW Astronomy/ Astronomy Club volunteer Madison, WI 2020 UW STEM Immersion Day, UW Astronomy/ Astronomy Club volunteer Madison, WI 2020 UW STEM Immersion Day, UW Astronomy/ Astronomy Club volunteer Madison, WI | 2019-2020 | Vice President, UW-Madison Astronomy Club | Madison, WI |
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| | 2019 | UW Space Place OAO-2 Anniversary Event , Orbital Astronomical Observatory (OAO) guide | Madison, WI |
| 2017 UW Space Place Family Science Night , Physics and Astronomy demo leader <i>Madison, WI</i> | 2018 | UW STEM Immersion Day, UW Astronomy/ Astronomy Club representative | Madison, WI |
| | 2017 | UW Space Place Family Science Night, Physics and Astronomy demo leader | Madison, WI |

PROFESSIONAL DEVELOPMENT

Fall 2022-Present: PyIU: A Workshop Series on Python Essentials, *IU Astronomy Dept*. Founder and lead organizer of the PyIU program: a free, graduate student-led Python workshop series intended to equip undergraduate and high school students of various backgrounds to engage in astronomy and physics research. This program is also funded by the Indiana Space Grant (co-PIs: Brandon Radzom and Samir Salim) for the 2025-2026 academic year. All content is posted to a public GitHub repository: github.com/BrandonRadzom/pyiu.

Summer 2025: Carl Sagan Summer Workshop Silver Jubilee: Exoplanet Demographics, *NExScI/Caltech* In-person participant, POP poster presenter, and helper for the hands-on "Exoplanet Occurrence Rates" and "Distant Giant Planets with Astrometry" sessions. Poster: nexsci.caltech.edu/workshop/2025/posters/Poster_BrandonRadzom_90.pdf

Summer 2023: JPL Planetary Science Summer School, *JPL*. Was selected to participate in an 11-week planetary mission design school. Received training on mission formulation from NASA mentors and worked with a multi-disciplinary cohort of 17 other early-career scientists and engineers to design a New Frontiers-class orbiter at Saturn's moon, Titan. Assumed the role of Deputy PI and Science Objective Lead throughout the program. During the culminating

week, also served as Science Chair and worked with NASA's Team-X at JPL to finalize the mission design before presenting it to a NASA review panel. The concept study is published in the Planetary Science Journal. Media interview: news.iu.edu/college/live/news/35938-graduate-students-summer-experience-at-nasas-jet

Summer 2023: Code/Astro Software Engineering Workshop, Northwestern University. Was selected to participate in the week-long 2023 Code/Astro Workshop which covered best practices for producing and publishing open-source astronomy software. Topics included managing Python environments, git and GitHub, de-bugging tools, releasing code to PyPI and GitHub, documentation of code (using docstrings & Sphinx), and software testing. In parallel, worked with a small group to develop a pip-installable package for planning observations at IU's Kirkwood Observatory called kirkwoodnight (GitHub: github.com/ag161920/kirkwoodnight, PyPI: pypi.org/project/kirkwoodnight). Program link: semaphorep.github.io/codeastro.

PROFESSIONAL MEMBERSHIPS

American Astronomical Society (2020-2025)