QUADRY CHANCE

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Education

University of Florida, Gainesville, FL
Ph.D. in Astronomy; Advisor: Sarah Ballard — May 2025

University of Florida, Gainesville, FL
M.S. in Astronomy — May 2022

University of Arizona, Tucson, AZ
B.S. in Astronomy — May 2018

Research Experience

University of Florida, Gainesville, FL
Research Assistant — 2019–2025

Flatiron Institute, New York, NY
Research Assistant — 2020–2021

NASA GSFC, Greenbelt, MD
Graduate Intern — 2019

Vanderbilt University, Nashville, TN
Research Assistant — 2018–2019

Awards & Fellowships

- NASA Postdoctoral Program (NPP) Fellowship, 2025– (awarded; start delayed)
- NASA FINESST Future Investigator, 2021–2024
- NASA ExoExplorer, 2022
- Flatiron/CCA Pre-Doctoral Fellowship, 2020

Proposals & Grants (PI)

- Keck/NN-EXPLORE: Stellar Companions to Kepler Hosts — 59.7 hrs (2022B–2023B)
- Keck/NN-EXPLORE: Circumbinary Planets in Kepler Candidates — 27.8 hrs (2022B–2023B)

Publications (First Author)

- Chance, Q., Foreman-Mackey, D., Ballard, S., Casey, A., David, T., & Price-Whelan, A. (2025). *paired: Detecting Stellar Binarity with Gaia RVs. I. Sensitivity to Unresolved Binaries*. ApJ, in press.
- Chance, Q., Ballard, S., Stassun, K. (2022). *Signatures of impact-driven atmospheric loss in large ensembles of exoplanets*. ApJ, 937, 39.
- Chance, Q., & Ballard, S. (2024). *Evidence that planets in the radius gap do not resemble their neighbors*. arXiv:2410.02150
- Chance, Q., Foreman-Mackey, D., Ballard, S., Casey, A., David, T., & Price-Whelan, A. (2022). *paired: Detecting Stellar Binarity with Gaia RVs* [Data set]. Zenodo.

Co-Authored

- Cacciapuoti, L., Kostov, V., Kuchner, M., **Chance, Q.**, et al. (2022). *The TESS Triple-9 Catalog*. MNRAS, 513, 102–116.
- Gilbert, E., Barclay, T., Quintana, E., **Chance, Q.**, et al. (2020). *Validation of the TOI-700 system*. AJ, 160, 116.
- Calahan, J., Shirley, Y., Svoboda, B., **Chance, Q.**, et al. (2018). *Massive starless clump candidates*. ApJ, 862, 63.

Presentations

Invited Talks / Seminars

- University of Michigan Star & Planet Journal Club (2021): Toward a binary probability for every known exoplanet host star
- ExoExplorer Science Series (2022): Toward a binary probability for every known exoplanet host star
- MPIA ExoCoffee (2022): Atmospheric loss in exoplanets
- GSFC Exoplanet Seminar Series (2024): Exoplanetary Epics
- Origins Seminar Series (2024): Exoplanetary Epics
- Heising–Simons Faculty Network Retreat (2025): Building Your Research Vision

Contributed Talks

- AAS (2020): Impact-driven atmospheric loss
- Other Worlds Lab (2023): Are radius gap planets gentrifying their neighborhoods?
- Other Worlds Lab (2023): Toward a binary probability for every known exoplanet host star
- Escape from Exoplanets (2024): Galactic gentrification and radius gap planets
- Detection and Dynamics of Exoplanets (2025): Radius gap planets do not resemble their neighbors

Posters

- DPS (2017): Origins and Destinations: Tracking Planet Composition
- AAS (2018): Origins and Destinations: Tracking Planet Composition
- AAS (2019): Linking M-dwarf Planet Composition and Orbital Dynamics
- AAS (2020): Signatures of Impact-driven Atmospheric Loss
- Exoplanets IV (2022): Toward a binary probability for every known exoplanet host star
- Extreme Solar Systems V (2024): Shucked Peas in a Pod: Breakdown of Intra-system Uniformity

Teaching & Mentoring

- Mentor, Lamat REU (Maurice Abraham) — 2025
- Co-adviser, Florida REU (Kristina Gatto) — 2022
- Guest Lecturer: Star and Planet Formation (2023), Solar System (2024)

Service & Outreach

- A Scientist in Every Florida School, 2021–2025
- Black In Astro Undergraduate Research Competition, Judge (2021)
- Executive Secretary, NASA XRP (2023); NASA ATP (2023)
- UF Astronomy Club Graduate School Panel, 2022–2024
- Public Talk, Orange County Public Schools (2024)