

CURRICULUM VITAE

Roberto Alexander Tejada Arevalo

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Education:

- Ph.D. in Astrophysical Sciences, Princeton University (Expected 2026)
- B.S. Physics, California State University, Los Angeles (2020)
- A.A., Los Angeles City College (2017)

Selected Publications:

Tejada Arevalo, R. *Different Inhomogeneous Evolutionary Histories for Uranus and Neptune.* 2025. Submitted to ApJL.

Sur, A., **Tejada Arevalo, R.**, Su, Y., Burrows, A. *Simultaneous Evolutionary Fits for Jupiter and Saturn Incorporating Fuzzy Cores.* 2025, ApJL, 980, L5

Tejada Arevalo, R., Sur, A., Su, Y., Burrows, A. *Jupiter Evolutionary Models Incorporating Stably Stratified Regions.* 2025 ApJ, 979, 243

Tejada Arevalo, R., Sur, A., Su, Y., Burrows, A. *Equations of State, Thermodynamics, and Miscibility Curves for Jovian Planet and Giant Exoplanet Evolutionary Models.* 2024 ApJS, 274, 34

Chen, Y., Burrows, A., Sur, A., **Tejada Arevalo, R.** *Jupiter Atmospheric Models and Outer Boundary Conditions for Giant Planet Evolutionary Calculations.* 2023, ApJ, 957, 36

Tejada Arevalo, R., Tamayo, D., Cranmer, M. *Do Young Planets Form in Mean Motion Resonance Chains?* 2022, ApJL, 932, L2

Tejada Arevalo, R., Winn, J., Anderson, K. *Further Evidence of Tidal Spin-up For Hot Jupiter Host Stars.* 2021, ApJ, 919, 2.

Awards:

- May 2024: Princeton Astrophysical Sciences Dept. Mentorship/Diversity Award
- March 2022: Ford Foundation Predoctoral Fellowship

References:

- **Adam S. Burrows**
Professor of Astrophysical Sciences, Princeton University
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- **Josh N. Winn**
Professor of Astrophysical Sciences, Princeton University
jwinn@princeton.edu

- **Jeremy Goodman**
Professor of Astrophysical Sciences, Princeton University
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- **Daniel Tamayo**
Assistant Professor of Physics, Harvey Mudd College
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- **Christopher Theissen**
Assistant Professor, University of California, San Diego
ctheissen@ucsd.edu

Selected Conferences:

- June 2025: AAS 246 (Dissertation Talk)
- May 2025: NY Area Exoplanet Meetup (Talk)
- June 2024: Cool Stars 22 (Poster)
- June 2024: Conference of Ford Fellows (Poster)
- January 2024: 243rd AAS Conference (Poster)
- May 2022: Exoplanets IV Conference (Poster)
- April 2022: Division of Dynamical Astronomy 53rd Conference (Talk)

Mentorship:

- **Astrophysical Sciences Peer-Mentorship Program**
I led our department's internal peer-mentorship program for two years. I worked with graduate students and Postdocs to pair them in mentorship pairs according to the graduate students' needs. Junior graduate students (years 1 & 2) were paired with Senior graduate students (years 3 and above), and Senior graduate students were paired with Postdocs. The goal was to create mentoring relationships where graduate students checked in regularly with their mentors to discuss their current projects, activities, life as a graduate student, and their future plans with someone more senior than them.
- **Calbridge**
I am part of [Calbridge's](#) alumni committee. Calbridge is a program in California that prepares undergraduate students from disadvantaged backgrounds to apply and succeed in graduate school. We organize panel discussions and workshop events focusing on graduate school applications, research methods, coding skills, and more.