-ARIN M. AVSAR-

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Research Interests: High contrast imaging of circumstellar disks and extrasolar planets, focused on understanding collisional processes between planetesimals in young planetary systems.

EDUCATION

University of Arizona *Anticipated 2027*
Ph.D. in Planetary Sciences

University of Arizona *May 2025*
M.S. in Planetary Sciences

University of California, Berkeley *May 2022*
B.A. in Astrophysics
B.A. in Planetary Science

EXPERIENCE

Graduate Research Associate University of Arizona
Advisors: Prof. Kevin Wagner & Prof. Dániel Apai *2025-Present*

Graduate Research Assistant University of Arizona
Advisors: Prof. Kevin Wagner & Prof. Dániel Apai *2022-2025*

Undergraduate Student Researcher UC Berkeley
Advisors: Dr. Tom Esposito & Dr. Paul Kalas *2020-2022*

Data Analyst Unistellar
Supervisors: Dr. Tom Esposito & Dr. Franck Marchis *2020-2022*

TEACHING EXPERIENCE

Graduate Teaching Assistant University of Arizona
ASTR/PTYS 206: Exploring Our Solar System *01/2026-05/2026*

Undergraduate Student Instructor (UGSI) UC Berkeley
Astronomy C10: Introduction to General Astronomy *01/2022-05/2022*

PEER-REVIEWED PUBLICATIONS

First Author Publications

1. **A. Avsar**, K. Wagner, D. Apai, et al. 2024, ApJ, 975, 40

   A Search for Collisions and Planet–Disk Interactions in the Beta Pictoris Disk with 26 Years of High-precision HST/STIS Imaging doi: 10.3847/1538-4357/ad7369

Co-Authored Publications

1. T. Esposito, **A. Avsar**, P. Kalas, et al., 2025, in prep.

   New HST/STIS detections of complex outer structure for the dusty debris disks surrounding seven young planetary systems

2. D. Peluso, T. Esposito, F. Marchis, et al., incl. **A. Avsar**, 2023, PASP, 135, 1043

   The Unistellar Exoplanet Campaign: Citizen Science Results and Inherent Education Opportunities. doi: 10.1088/1538-3873/acaa58

3. X. Wang, M. Rice, S. Wang, et al., incl. **A. Avsar**, 2022, ApJL, 926, L8

   The Aligned Orbit of WASP-148b, the Only Known Hot Jupiter with a nearby Warm Jupiter Companion, from NEID and HIRES doi: 10.3847/2041-8213/ac4f44

4. A. Perrocheau, T. Esposito, P. Dalba, et al., incl. **A. Avsar**, 2022, ApJL, 940, 39

   A 16 hr Transit of Kepler-167 e Observed by the Ground-based Unistellar Telescope Network doi: 0.3847/2041-8213/ac4f44

5. K.A. Pearson, C. Beichman, B.J. Fulton, et al., incl. **A. Avsar**, 2022, AJ, 164, 178

   Utilizing a Global Network of Telescopes to Update the Ephemeris for the Highly Eccentric Planet HD 80606 b and to Ensure the Efficient Scheduling of JWST doi: 10.3847/1538-3881/ac8dee

PRESENTATIONS

- **A. Avsar** (2025). Unraveling Massive Planetesimal Collisions in Debris Disks. *NASA Goddard Space Flight Center Exoplanet Seminar Series* [Oral]
- **A. Avsar**, K. Wagner, D. Apai (2024). 26 Years of HST/STIS Scattered Light Imaging Of The Beta Pictoris Debris Disk. *Dust Devils Workshop - Debris Disks in the Sonoran Desert* [Oral]
- **A. Avsar**, T. Esposito, P. Kalas, G. Duchêne, M. Millar-Blanchaer, M. Perrin, B. Ren, R. De Rosa (2022). The Large-Scale Structure of Debris Disks Newly Imaged with HST/STIS. *CHAMPS Seminar Series - Exoplanet Early Career Highlight Seminar* [Oral]
- **A. Avsar**, T. Esposito, P. Kalas, G. Duchêne, M. Millar-Blanchaer, M. Perrin, B. Ren, R. De Rosa (2022). The Large-Scale Structure of Debris Disks Newly Imaged with HST/STIS. *AAS 240th Meeting* [Poster]

TELESCOPE PROGRAMS

- Hubble Space Telescope Cycle 32: GO 17741 - 9 Orbits (Co-I)
- Hubble Space Telescope Cycle 31: GO 17456 - 17 Orbits (Co-I)

AWARDS

- 2025 Galileo Circle Scholarship