

Quinn M. Konopacky

(a) Professional Preparation

Undergraduate Institution

University of California, Los Angeles	B.S., Astrophysics	2003
---------------------------------------	--------------------	------

Graduate Institution

University of California, Los Angeles	M.S., Astronomy	2005
---------------------------------------	-----------------	------

University of California, Los Angeles	Ph.D., Astronomy	2009
---------------------------------------	------------------	------

Postdoctoral Institution(s)

Lawrence Livermore National Laboratory	Astronomy	2009-2011
--	-----------	-----------

Dunlap Institute for Astronomy & Astrophysics	Astronomy	2012-2014
---	-----------	-----------

(b) Research Interests

Planet formation and evolution; high contrast imaging; star formation; stellar and substellar evolution; orbital dynamics; high angular resolution imaging and spectroscopy; adaptive optics; astrometry; speckle interferometry; optical and infrared astronomy

(c) Appointments

2023 – present	Associate Professor of Astronomy & Astrophysics, University of California, San Diego
2021 – 2023	Associate Professor of Physics, University of California, San Diego
2015 – 2021	Assistant Professor of Physics, University of California, San Diego
2012 – 2014	Dunlap Postdoctoral Fellow, Dunlap Institute, University of Toronto
2009 – 2011	Postdoctoral Researcher, Lawrence Livermore Nat. Lab
2003 – 2009	Graduate Student Researcher, University of California, Los Angeles
2001 – 2003	Undergraduate Student Researcher, Lawrence Livermore Nat. Lab

(d) Select Recent Publications

1. C.R. Do Ó, K.K. O’Neil, **Q. Konopacky** et al. 2023, “The Orbital Eccentricities of Directly Imaged Companions Using Observable-Based Priors: Implications for Population-level Distributions”, *AJ*, 166, 48
2. K.K.W. Hoch, **Q. Konopacky**, et al. 2023, “Assessing the C/O Ratio Formation Diagnostic: A Potential Trend with Companion Mass”, *AJ*, in press (arXiv:2212.04557)
3. C. Theissen, **Q. Konopacky** et al. 2022, “The 3D Kinematics of the Orion Nebula Cluster: NIRSPEC-AO Radial Velocities of the Core Population”, *ApJ*, 926, 141
4. J.B. Ruffio, **Q. Konopacky**, et al. 2021, “Deep Exploration of the Planets HR 8799 b, c, and d with Moderate Resolution Spectroscopy”, *AJ*, 162, 290
5. E.L. Nielsen et al. 2019, “The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 AU”, *AJ*, 158, 13
6. **Q. Konopacky** et al. 2016, “Discovery of a Substellar Companion to the Nearby Debris Disk Host HR 2562”, *ApJL*, 829, 4

7. **Q. Konopacky** et al. 2016, “Astrometric Monitoring of the HR 8799 Planets: Orbit Constraints from Self-Consistent Measurements”, *AJ*, 152, 28
8. R. Galicher, C. Marois, B. Macintosh, B. Zuckerman, T. Barman, **Q. Konopacky**, et al. 2016, “The International Deep Planet Survey II: The frequency of directly imaged giant exoplanets with stellar mass”, *A&A*, 594, 63
9. B. Macintosh, J. Graham, T. Barman, R. De Rosa, **Q. Konopacky**, et al. 2015, “Discovery and spectroscopy of the young jovian planet 51 Eri b with the Gemini Planet Imager”, *Science*, 350, 64
10. T. Barman, **Q. Konopacky**, B. Macintosh, & C. Marois, 2015, “Simultaneous Detection of Water, Methane, and Carbon Monoxide in the Atmosphere of Exoplanet HR 8799b”, *ApJ*, 804, 61
11. **Q. Konopacky**, T. Barman, B. Macintosh, & C. Marois, 2013, “Detection of Carbon Monoxide and Water Absorption Lines in an Exoplanet Atmosphere”, *Science*, 339, 1398
12. **Q. Konopacky**, et al., 2014, “Gemini Planet Imager Observational Calibrations V: Astrometry and Distortion”, *SPIE*, 9147, 85
13. **Q. Konopacky**, et al. 2010, “High-precision Dynamical Masses of Very Low Mass Binaries”, *ApJ*, 711, 1087
14. C. Marois, B. Zuckerman, **Q. Konopacky**, B. Macintosh, & T. Barman, 2010, “Images of a fourth planet orbiting HR 8799”, *Nature*, 468, 1080
15. **Q. Konopacky**, et al., 2012, “Rotational Velocities of Individual Components in Very Low Mass Binaries”, *ApJ*, 750, 79
16. T. Barman, B. Macintosh, **Q. Konopacky**, & C. Marois, 2011, “Clouds and Chemistry in the Atmosphere of Extrasolar Planet HR8799b”, *ApJ*, 733, 65
17. **Q. Konopacky**, A. Ghez, E. Rice, & G. Duchêne, 2007, “New Very Low Mass Binaries in the Taurus Star-forming Region”, *ApJ*, 663, 394
18. **Q. Konopacky**, A. Ghez, G. Duchêne, C. McCabe, & B. Macintosh, 2007, “Measuring the Mass of a Pre-Main-Sequence Binary Star through the Orbit of TWA 5A”, *AJ*, 133, 2008

(e) Recent Synergistic Activities

- Chair of Outreach Committee, Physics, 2018-2023, Astronomy & Astrophysics, 2023-present
- Chancellors Committee on the Status of Women, UCSD, Voting Member, 2018-2021
- Cal-BRIDGE program mentor, 2015-2022

(f) Recent Management Experience

- MODHIS (TMT) Project Scientist
- HISPEC (Keck) Project Scientist
- GPI 2.0 Co-PI and Project Scientist
- GPI Exoplanet Survey Steering Committee and Executive Committee