

Isabel Angelo

CONTACT INFORMATION	 SETI Institute, Mountain View, USA, 94043  isabelangelo@seti.org  Website: https://sites.google.com/g.ucla.edu/isabelangelo  GitHub: https://github.com/isabelangelo
EDUCATION	PhD, Astronomy & Astrophysics, UCLA 2019 - Present Advisors: Erik Petigura and Smadar Naoz M.A., Astronomy & Astrophysics, UCLA 2021 B.A. with Honors, Astrophysics, UC Berkeley 2017
APPOINTMENTS	Davie Postdoctoral Fellow, SETI Institute 2025 - Present Data Science Intern, EnergyHub 2025 Graduate Student Researcher, UCLA 2021 - 2025 Teaching Fellow, UCLA 2019 - 2025 Visting Researcher, Flatiron Institute CCA Spring 2023 Post-baccalaureate Research Assistant, UC Berkeley 2018 - 2019 Undergraduate Research Fellow, Caltech SURF 2017 Undergraduate Researcher, UC Berkeley Breakthrough Listen 2016 Undergraduate Researcher, NASA Ames/SETI Institute 2015
RESEARCH INTERESTS	planet detection and characterization ★ orbital dynamics ★ machine learning ★ planetary system architectures ★ binary detection
TECHNICAL SKILLS	Python, SQL, C++, MATLAB, HTML, Github, VSCode, Linux high performance computing ★ machine learning ★ Bayesian statistics ★ telescope observing
HONORS AND AWARDS	Michael A. Jura Fellowship, UCLA Physics & Astronomy 2024 Thacher Research Fellowship, UCLA Physics & Astronomy 2023 Astronomy Division Fellowship, UCLA Physics & Astronomy 2019 - 2023 Outstanding Teaching Award, UCLA Physics & Astronomy 2020, 2021 Dorothy Radcliffe Dee Fellowship, UCLA Division of Physical Sciences 2019 Dean's Scholarship, UCLA Graduate Division 2019 Olsen Scholar, UC Berkeley Physics Department 2015 Dean's Honors, UC Berkeley College of Letters and Sciences 2014
PUBLICATIONS	FIRST AUTHOR 6. Angelo , Petigura, and Bedell (2025), "Seeking Spectral Binaries with Data-Driven Models", <i>in review</i> . 5. Angelo , Bedell, Petigura and Ness (2024), "A Data-driven Spectral Model of Main Sequence Stars in Gaia DR3", <i>ApJ</i> , 974, 43. [ADS] 4. Angelo , Duchêne, Stapelfeldt, and 8 others (2023), "Demographics of Protoplanetary Disks: A Simulated Population of Edge-on Systems", <i>ApJ</i> , 945, 130. [ADS] 3. Angelo , Naoz, Petigura, and 4 others (2022), "Kepler-1656b's Extreme Eccentricity: Signature of a Gentle Giant", <i>AJ</i> , 163, 227 [ADS] 2. Angelo & Hu (2017), "A Case for an Atmosphere on Super-Earth 55 Cancri e," <i>AJ</i> , 154, 232. [ADS]

1. **Angelo**, Rowe, Howell, and 8 colleagues (2017), “Kepler-1649b: An Exo-Venus in the Solar Neighborhood,” *AJ*, 153, 192. [ADS]

SIGNIFICANT CONTRIBUTION

19. Van Zandt, Petigura, Lubin, and 38 colleagues including **Angelo** (2025), “The TESS-Keck Survey XXIV: Outer Giants may be More Prevalent in the Presence of Inner Small Planets”, *AJ*, 169, 235.[ADS]
18. Shariat, Naoz, El-Badry, 5 colleagues including **Angelo** (2025), “Triple Evolution Pathways to Black Hole Low-mass X-Ray Binaries: Insights from V404 Cygni”, *ApJ*, 193, 115. [ADS]
17. Howard, Sinukoff, Blunt, and 50 colleagues including **Angelo** (2025), “Planet Masses, Radii, and Orbits from NASA’s K2 Mission”, *accepted to ApJS.*, [ADS]
16. Shariat, Naoz, El-Badry, and 4 colleagues including **Angelo** (2025), “Once a Triple, Not Always a Triple: The Evolution of Hierarchical Triples that Yield Merged Inner Binaries”, *ApJ*, 978, 47. [ADS]
15. Teng, Dai, Howard, and 4 colleagues including **Angelo** (2024), “The ~ 50 -Myr-Old TOI-942c is Likely on an Aligned, Coplanar Orbit and Losing Mass”, *AJ*, 168, 194 [ADS]
14. Rubenzahl, Howard, Halverson, and 25 colleagues including **Angelo** (2024), “Obliquity Constraints for the Extremely Eccentric Sub-Saturn Kepler-1656b”, *ApJL*, 971, 40. [ADS]
13. Isaacson, Howard, Fulton, and 31 colleagues including **Angelo** (2024), “The California Legacy Survey V. Chromospheric Activity Cycles in Main Sequence Stars”, *ApJS*, 274, 351. [ADS]
12. Pidhorodetska, Kane, Gilbert, and 40 colleagues including **Angelo** (2024), “The TESS-Keck Survey. XXII. A sub-Neptune Orbiting TOI-1437”, *AJ*, 168 135. [ADS]
11. Polanski, Lubin, Beard, and 71 colleagues including **Angelo** (2024), “The TESS-Keck Survey XX: Mass Catalog and Data Release”, *ApJS*, 272, 32. [ADS]
10. Rubenzahl, Dai, Howard, and 39 colleagues including **Angelo** (2024), “The TESS-Keck Survey. XII. A Dense $1.8 R_{\oplus}$ Ultra-Short-Period Planet Possibly Clinging to a High-Mean-Molecular-Weight Atmosphere After the First Gyr”, *AJ*, 167, 153. [ADS]
9. Murphy, Batalha, Scarsdale, and 45 colleagues including **Angelo** (2023), “The TESS-Keck Survey. XVI. Mass Measurements for 12 Planets in Eight Systems”, *AJ*, 166, 153. [ADS]
8. Shariat, Naoz, Hansen, **Angelo** and 2 colleagues (2023), “Dynamical Evolution of White Dwarfs in Triples in the Era of Gaia”, *ApJL*, 955, L14. [ADS]
7. MacDougall, Petigura, Gilbert, **Angelo** and 37 colleagues (2023), “The TESS-Keck Survey XV. Precise Properties of 108 TESS Planets and Their Host Stars”, *AJ*, 166, 33. [ADS]
6. Telkamp, Martinez-Palomera, Duchêne, and 4 colleagues including **Angelo** (2022), “A Machine Learning Framework to Predict Images of Edge-on Protoplanetary Disks”, *ApJ*, 939, 73. [ADS]
5. MacDougall, Petigura, Fetherolf, and 57 colleagues including **Angelo** (2022), “The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-mass Outer Companion around TOI-1272”, *AJ*, 164, 97. [ADS]
4. Yee, Winn, Hartman, and 72 colleagues including **Angelo** (2022), “The TESS Grand Unified Hot Jupiter Survey. I. Ten TESS Planets”, *AJ*, 164, 70. [ADS]
3. MacDougall, Petigura, **Angelo**, and 17 colleagues (2021), “The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166,” *AJ*, 162, 265. [ADS]

2. Blunt, Wang, **Angelo**, and 10 colleagues (2019), “**orbitize!**: A Comprehensive Orbit-fitting Software Package for the High-contrast Imaging Community,” *AJ*, 158, 89. [ADS]
1. Ansdell, Gaidos, Hedges, and 12 colleagues including **Angelo** (2019), “Are Inner Disc Misalignments Common? ALMA Reveals an Isotropic Outer Disc Inclination Distribution for Young Dipper Stars”, *MNRAS*, 492, 572. [ADS]

TEACHING

Teaching Fellow, UCLA	2019 - Present
Astro 127: Stars from Birth to Death	
Astro 180: Astrophysics Laboratory	
Astro 6: Cosmology	
Astro 4: Black Holes & Cosmic Catastrophes	
Astro 5: Life in the Universe	
Physics 5C: Thermodynamics	
Physics 5AL: Mechanics & Energy Lab	
Physics 105A: Analytic Mechanics	
Instructor, UC Berkeley	2016 - 2020
Introduction to Astronomy Research	
Astro 120: Optical/IR Lab	
Astro 98: Aliens! Seminar	

SERVICE & OUTREACH

Active Referee for <i>AJ</i> and <i>ApJ</i> Journals	2018 - present
Planetarium Coordinator, UCLA	2021 - 2024
Planetarium Show Host	
Website Manager	
Show Developer: <i>The Most Creative Discoveries in Astronomy</i>	
Show Developer: <i>Henrietta Leavitt's Expanding Universe</i>	
Show Developer: <i>Works of LA's Black Astronomers</i>	
Mentor, UCLA Physics & Astronomy	2019 - 2024
Mentor: UCLA Marginalized Identities in Physics & Astronomy	
Mentor: Graduate Student Mentor Program	
Organizer, Astronomy Grad School Panel, UCLA	2020 - 2024
Outreach Talks, Various Locations	
<i>The Current Search for E.T.</i> , UCLA Astronomy 5	March 2022
<i>Women at UCLA</i> , UCLA DiversiTea	Sept 2021
<i>Indigenous Perspectives on TMT</i> , Berkeley GSPS	Apr 2019
Outreach Coordinator, UCLA Physics & Astronomy	2020 - 2021
Organizer, Astronomy on Tap - West L.A.	
Organizer, Graduate School Applications Panel	
Panelist, Tennenbaum Tech Career Panel	May 2021
Instructor, Curious Jane Summer Camp	Summer 2019
Mentor, Berkeley Women in Youth Supporting Each other (WYSE)	Fall 2016

IN THE MEDIA

“SETI Institute Awards Davie Postdoctoral Fellowship for AI/ML-Driven Exoplanet Discovery,” , *SETI News*

“Lava or Not, Exoplanet 55 Cancri e Likely to Have Atmosphere,” *NASA/JPL-Caltech*

“An Exo-Venus in the Solar Neighborhood,” *AAS Nova*

PRESENTATIONS

TALKS

Know Thy Star 2, Caltech	Feb 2025
IPAC Lunch Seminar, Caltech	Nov 2024
Emerging Research in Exoplanet Science IX, Cornell	Jul 2024
Exoplanet Researchers in Southern California Meeting, Caltech	Dec 2023
Lunch Talk, Center for Computational Astrophysics	June 2023
Emerging Researchers in Exoplanet Science VII, Penn State	July 2022
AAS Division for Dynamical Astronomy Meeting, <i>online</i>	May 2021
Triple Evolution and Dynamics, <i>online</i> /Northwestern	Mar 2021
AAS Habitable Worlds Meeting, <i>online</i>	Feb 2021
Grad Student Postdoc Seminar, UC Berkeley	Oct 2019
Astronomy Lunch Talk, UC Berkeley	Nov 2018
AAS Meeting, National Harbor, MD	Jan 2018
Summer Student Presentations, NASA JPL	Aug 2017
Berkeley SETI Meeting, UC Berkeley	Apr 2017
Bay Area Exoplanet Science Meeting, NASA Ames	Jun 2016
Undergraduate Research Symposium, UC Berkeley	Apr 2016
Weekly Colloquium, SETI Institute	Aug 2015

POSTERS

Keck Science Meeting, Caltech	Sept 2024
LSExo Meeting, Aspen Center for Physics	March 2023
ExSoCal Meeting, UC Irvine/ <i>online</i>	Sept 2020
AAS Division for Dynamical Astronomy Meeting, <i>online</i>	Aug 2020
AAS Meeting, Honolulu, HI	Jan 2020
IAU XXX General Assembly, Vienna, Austria	Aug 2018
Undergraduate Research Symposium, UC Berkeley	Jul 2016
AAS Division for Planetary Science Meeting, National Harbor, MD	Nov 2015