

CONTACT INFORMATION	1200 E California Blvd MC 249-17 Pasadena, CA 91125	mg@astro.caltech.edu maxgoldberg.me
EDUCATION	Ph.D. in Astrophysics, California Institute of Technology M.S. in Astrophysics, California Institute of Technology Doctoral Advisor: Konstantin Batygin B.S. in Astrophysics (with honors) & Mathematics, University of Chicago Undergraduate Advisor: Daniel Fabrycky Bachelor's Thesis: "Dynamical Detection of Singly-Transiting Circumbinary Planets."	2024 (expected) 2022 2019
FIRST AUTHOR PUBLICATIONS	Goldberg, M. , Fabrycky, D., et al. "A $5M_{\text{Jup}}$ Coplanar Circumbinary Planet Around Kepler-1660AB." In review. Goldberg, M. and Batygin, K. "Dynamics and Origins of the Near-Resonant Kepler Planets." <i>The Astrophysical Journal</i> , 948, (2023). Goldberg, M. , Batygin, K., and Morbidelli, A. "A Criterion for the Stability of Resonant Chains." <i>Icarus</i> , 388, (2022). Goldberg, M. and Batygin, K. "Architectures of Compact Super-Earth Systems Shaped by Instabilities." <i>The Astronomical Journal</i> , 163.5, (2022). Goldberg, M. and Batygin, K. "A Tidal Origin for a Three-body Resonance in Kepler-221." <i>The Astronomical Journal</i> , 162.1, (2021). Goldberg, M. , Hadden, S., Payne, M. J., and Holman, M. J. "Prospects for Refining Kepler TTV Masses Using TESS Observations." <i>The Astronomical Journal</i> , 157.4, (2019).	
CO-AUTHORED PUBLICATIONS	Dai, F., Masuda, K., Beard, C., Robertson, P., Goldberg, M. , et al. "TOI-1136 is a Young, Coplanar, Aligned Planetary System in a Pristine Resonant Chain." <i>The Astronomical Journal</i> , 165.2, (2023).	
AWARDS AND HONORS	Raynor L. Duncombe Student Research Prize David and Barbara Groce Travel Fund Origins of Life Summer Undergraduate Research Prize Award UCISTEM Summer Research Grant	2021 2021 2018 2017
SELECTED TALKS AND POSTERS	"Origins of the Architectures of Compact Multi-planet Systems" (invited) Southwest Research Institute, Boulder "Architectures of Compact Super-Earth Systems Shaped by Instabilities" Exoplanets IV "A Tidal Origin for Kepler-221" 52nd DDA Meeting "A New Method to Detect Circumbinary Planets" National Collegiate Research Conference Harvard University	November 2022 May 2022 May 2021 January 2018

TEACHING EXPERIENCE	Teaching assistant , California Institute of Technology	
	<ul style="list-style-type: none"> • Ay/Ge 133 (hybrid): The Formation and Evolution of Planetary Systems, Fall 2021 • Ph 1c (remote): Electromagnetism, Spring 2021 • Ay/Ge 133 (remote): The Formation and Evolution of Planetary Systems, Winter 2021 • Ph 1a (remote): Classical Mechanics, Fall 2020 	
	Teaching assistant , University of Chicago	
	<ul style="list-style-type: none"> • BPRO 28800: From Fossils to Fermi's Paradox: Origin and Evolution of Intelligent Life, Winter 2019 	
OUTREACH AND MENTORING	Summer Research Connection Mentor, Caltech	2021
	Mentored three high school students, teaching the basics of n-body simulations and Galilean moon formation to study the role of giant impacts in the Jovian system	
	Caltech Astronomy Outreach	2019–2022
	2× Astronomy on Tap Speaker	
	Panelist, answered astronomy questions after an outreach presentation	
	Led public telescope observations of planets and the transit of Mercury	
	Assisted in Planet Finder Academy, program for high school students to learn about astronomy and exoplanet detection	
PROFESSIONAL SERVICE	Referee for Monthly Notices of the Royal Astronomical Society, Astronomical Journal, Astronomy & Astrophysics	