

CONTACT INFORMATION	1200 E California Blvd MC 249-17 Pasadena, CA 91125	mg@astro.caltech.edu maxgoldberg.me
EDUCATION	<b>California Institute of Technology</b> , Pasadena, CA Ph.D., Department of Astronomy Doctoral Advisor: Konstantin Batygin	2019–2024 (expected)
	<b>University of Chicago</b> , Chicago, IL B.S., Astrophysics (with honors), Mathematics Undergraduate Advisor: Daniel Fabrycky	2015–2019
PUBLICATIONS	<ol style="list-style-type: none"> <li>1. <b>Goldberg, M.</b>, Batygin, K., and Morbidelli, A. “A Criterion for the Stability of Resonant Chains.” In prep.</li> <li>2. <b>Goldberg, M.</b> and Batygin, K. “Architectures of Compact Super-Earth Systems Shaped by Instabilities.” <i>The Astronomical Journal</i>, 163.5, (2022).</li> <li>3. <b>Goldberg, M.</b> and Batygin, K. “A Tidal Origin for a Three-body Resonance in Kepler-221.” <i>The Astronomical Journal</i>, 162.1, (2021).</li> <li>4. <b>Goldberg, M.</b>, 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).</li> <li>5. <b>Goldberg, M.</b>. “Dynamical Detection of Singly-Transiting Circumbinary Planets.” Bachelor’s Thesis, (2019).</li> </ol>	
AWARDS AND HONORS	Raynor L. Duncombe Student Research Prize	2021
	David and Barbara Groce Travel Fund	2021
	Origins of Life Summer Undergraduate Research Prize Award	2018
	UCISTEM Summer Research Grant	2017
CONFERENCE TALKS AND POSTERS	“Architectures of Compact Super-Earth Systems Shaped by Instabilities” 53rd DPS Meeting	October 2021
	“A Tidal Origin for Kepler-221” 52nd DDA Meeting	May 2021
	“A New Method to Detect Circumbinary Planets” National Collegiate Research Conference Harvard University	January 2018
TEACHING EXPERIENCE	Teaching assistant	
	<b>California Institute of Technology</b>	
	– 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	
	<b>University of Chicago</b>	
	– BPRO 28800: From Fossils to Fermi’s Paradox: Origin and Evolution of Intelligent Life, Winter 2019	

- Reconfigured classes to a remote format, led office hours and discussion sections
- Wrote exam problems, graded homeworks and exams for large intro courses
- Designed recitation sections and exams for a newly-offered class

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  
 Astronomy on Tap Speaker, spoke about the history of timekeeping in astronomy and answered questions  
 Panelist, answered astronomy questions after an outreach presentation  
 Assisted in public telescope observations of planets and the transit of Mercury

PROFESSIONAL  
SERVICE

Referee for Monthly Notices of the Royal Astronomical Society