Gregory J. Gilbert

Postdoctoral Scholar University of California, Los Angeles

gjgilbert@astro.ucla.edu | gjgilbert.github.io

Research Interests	
exoplanets planet formation orbital dynamics computational methods scienc	e pedagogy
Education	
 PhD in Astronomy & Astrophysics, University of Chicago Advisor: Prof. Daniel C. Fabrycky BA in Physics, Washington University in St. Louis 	2014-2021 2004-2008
Teaching	
Teaching Assistant, University of Chicago ASTR: The Big Bang ASTR: Galaxies ASTR: Stars PHYS: Stellar Astronomy CHEM: Chemistry of Earth's Atmosphere	2020 2017 2016 2015 2014
Head of Science Curriculum, Academic Approach (Chicago, IL) Led a team of six teachers and writers to produce lesson plans and exam 100,000 high school students in Chicago Public Schools. Recruited, vetted team members. Oversaw quality and scientific accuracy of all published physics, chemistry, biology, and earth sciences.	d, and trained new
Science/Math Instructor, Academic Approach (Chicago, IL) Instructed grade 9-12 students at all levels of math and science, including calculus, statistics, physics, and chemistry. Guided over one hundred stucollege application process.	
Peer Mentor, Washington University in St. Louis Tutored undergraduates in General Physics I & II. Facilitated weekly small gro Assisted faculty advisor in developing problem sets and training new peer men	
Advising	
Mason MacDougall, UCLA graduate student Devin Hoover, U.Chicago undergrad	2021-present 2020
Observing	
Keck/HIRES, 3 nights Magellan/LDSS3-C, 2 nights	2022 2015

Journal Referee, Astronomical Journal Astronomy & Astrophysics	2020-present
Skype-a-Scientist (x3)	2021
Departmental Committees, University of Chicago Diversity, Equity, and Inclusion Advising/Mentorship subgroup Education and Outreach Teaching Physical Science Division Undergraduate Curriculum	2020 2019 2017 2017
Awards	
Future Investigators in NASA Earth, Space Sciences, and Technology Fellowship Pierazzo International Student Travel Award	2020-2021 2017

Talks_____

★ = invited

*The Ohio State University	Columbus, OH 2021
Exomoons Cool Worlds Lab	virtual 2021
*University of California, Los Angeles	virtual 2020
*Penn State University	virtual 2020
Exoplanets III	virtual 2020
Princeton/IAS	virtual 2020
Lake Michigan Exoplanet Meeting	Chicago, IL 2019
*Depaul University	Chicago, IL 2018
Chicagoland Exoplanet Meeting	Chicago, IL 2017

University of Chicago Physical Science Teaching Prize (nominee x2) 2015, 2017

Publications _____

SAO/NASA Astrophysics Data System list available at gighthub.io/cv

TESS-Keck Survey XIV: 2 giant exoplanets from the distant giants survey Van Zandt, JE · MacDougall, MG · Petigura, EA · Gilbert, GJ · et al.	submitted
Implicit biases in transit models using stellar pseudo density Gilbert, GJ · MacDougall, MG · Petigura, EA	2022
Accurate modeling of grazing transits using umbrella sampling Gilbert, GJ	2021
Planetary period ratio sculpting near second-order mean motion resonances Bailey, N \cdot Gilbert, GJ \cdot Fabrycky, DC	2021
An information theoretic framework for classifying exoplanetary system architecture Gilbert, $GJ\cdotFabrycky,DC$	s 2020
A search for water in the atmosphere of HAT-P-26b using LDSS-3C Stevenson, KB \cdot Bean, JL \cdot Seifahrt, A \cdot Gilbert, GJ \cdot et al.	2016