

Gregory J. Gilbert

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University of Chicago

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EDUCATION

University of Chicago, Ph.D. in Astronomy & Astrophysics	expected 2021
Washington University in St. Louis, B.A. in Physics	2008

PUBLICATIONS

1. “A short cadence transit timing catalog for all Kepler planet candidates”, **G.J. Gilbert**, D.C. Fabrycky, & B.T. Montet, 2020, *in prep*
2. “Kepler 564: A non-transiting planet perturbing its transiting neighbors”, **G.J. Gilbert**, D.C. Fabrycky, K.B. Stevenson, et al. 2020, *in prep*
3. “An information theoretic framework for classifying exoplanetary systems”, **G.J. Gilbert** & D.C. Fabrycky 2020, AJ, 159, 281G
4. “A search for water in the atmosphere of HAT-P-26b using LDSS-3C”, K.B. Stevenson, J.L. Bean, A. Seifahrt, **G.J. Gilbert**, et al. 2016, ApJ, 817, 141S

ADDITIONAL RESEARCH

Post-Baccalaureate Research, University of Chicago	2012-2014
<i>Advisor: Prof. Jacob Bean</i>	

Investigated the chemical and thermal properties of hot Jupiters through transmission and emission spectroscopy with the MMT/Magellan Infrared Spectrograph (MMIRS), Inamori-Magellan Areal Camera and Spectrograph (IMACS) and Hubble Space Telescope Wide Field Camera 3 (WFC3).

OBSERVING EXPERIENCE

Magellan/LDSS-3C, 2 nights	2015
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HONORS & AWARDS

Future Investigator in NASA Earth and Space Sciences and Technology	2020-2021
Pierazzo International Student Travel Award	2017
University of Chicago Physical Science Teaching Prize (nominee)	2015, 2017

TALKS & PRESENTATIONS

University of California, Los Angeles, Astronomy Lunch Talk (invited)	2020
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Penn State Center for Exoplanets and Habitable Worlds, Seminar (invited)	2020
Exoplanets III Conference	2020
Princeton IAS Journal Club	2020
Lake Michigan Exoplanet Meeting	2019
Depaul University - Undergraduate Intro Astronomy Guest Lecture (invited)	2018
Chicagoland Exoplanet Meeting	2017

TEACHING & MENTORING

Students Advised

- Devin Hoover, University of Chicago undergraduate 2020

Teaching Assistant, University of Chicago

- The Big Bang 2020
- Galaxies 2017
- Stars & Stellar Astronomy 2015 & 2016
- Chemistry of the Atmosphere 2014

Head of Science Development, Academic Approach (Chicago, IL) 2011-2014

Led a team of writers to produce educational materials and tests for use by over 100,000 high school students in Chicago Public Schools. Recruited and vetted new team members. Verified quality and scientific accuracy of all published materials covering physics, chemistry, biology, environmental studies, and earth and space sciences.

Science/Math Instructor, Academic Approach (Chicago, IL) 2008-2014

Instructed grade 9-12 students at all levels of math and science, including algebra, geometry, calculus, statistics, physics, and chemistry. Mentored students applying for college, provided advice on application essays, and helped them prepare for advanced placement (AP) exams.

Teaching Assistant, Washington University in St. Louis

- General Physics I & II 2007-2008

Peer Mentor, Washington University in St. Louis 2005-2008

Tutored undergraduates in introductory physics. Facilitated weekly study sessions with groups of 6-10 students. Helped train new peer mentors and develop problem sets.

SERVICE

- UChicago Dept. of Astronomy Advising & Mentorship Committee 2020

UChicago Dept. of Astronomy Education and Outreach Committee	2019
UChicago Physical Science Teaching Committee	2017
UChicago Dept. of Astronomy Undergraduate Curriculum Development Team	2017