

ver James Hall

ch Fellow - Asteroseismology & Statistics

coordinates

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Center for Computational
Astrophysics, NY 📍

education

- 2012–2017 **PhD** Astronomy and Astrobiology University of Washington, Seattle WA
+ On the evolution, detection, and characterization of small planets in the habitable zones of M dwarfs
+ Advised by Eric Agol, Rory Barnes, and Victoria Meadows
- 2012–2013 **MSc** Astronomy and Astrobiology University of Washington, Seattle WA
- 2006–2010 **BA** Astrophysics Swarthmore College, Swarthmore PA
+ Minor in English Literature

about

I am a postdoctoral fellow at the Center for Computational Astrophysics in New York City, working on finding novel ways to discover and characterize exoplanets. I am broadly interested in exocartography, astrostatistics, noise modeling, & general analytic techniques for astronomy. Outside of the office I love to hike, cycle, swim, craft lattes, faulty parallelism, and Oxford commas.

positions

- 2018– **Flatiron Fellow** Center for Computational Astrophysics, New York, NY
+ Work on statistical and computational data analysis problems applied to stellar and exoplanetary astronomy
+ Develop algorithms and open-source software for timeseries analysis
- 2017–2018 **Postdoctoral Researcher** University of Washington
+ Developed photometric de-trending methods to aid in the search for small planets transiting small stars; developed and maintained the **everest** pipeline
- 2012–2017 **Research Associate** University of Washington
+ Developed techniques to detect and characterize habitable zone planets
+ Investigated the atmospheric evolution of planets orbiting M dwarfs
- 2008–2009 **Student Researcher** Swarthmore College
+ Research under Professor Eric Jensen on planet formation and T Tauri disks

honors

- 2018–2021 **Flatiron Fellowship** Center for Computational Astrophysics, New York, NY
- 2018 **Hubble Postdoctoral Fellowship** (Declined)
- 2018 **51 Pegasi b Fellowship** (Declined)
- 2012–2015 **ARCS Fellowship** University of Washington
- 2010 **Bobby Berman Memorial Prize** Swarthmore College
- 2010 **The Phi Beta Kappa Society** Swarthmore College

popular code

estargol
Analytic light curves
github.com/estargol

planet-hogg
P-P occultations
github.com/planet-hogg

dan foreman-mackey
everest
K2 de-trending
[foreman-mackey@gmail.com](https://github.com/foreman-mackey)

rory barnes
rory@astro.washington.edu

teaching & outreach

2020-	Mentor, Simons-NSBP Program	Flatiron Institute
	+ Mentor black undergraduate students through the Simons-National Society of Black Physicists summer program	
2019-	Mentor, AstroCom	AMNH / CUNY
	+ Mentor undergraduate students from underrepresented groups in the sciences at the City University of New York	
2019-	Lecturer, LSST Data Science Fellowship	Carnegie Mellon / Flatiron Institute
	+ Lectured on various topics related to statistical inference at week-long schools for early-career astronomers	
2012-2017	Mobile Planetarium	University of Washington
	+ Presented planetarium shows at schools and public venues throughout Washington state using UW's inflatable mobile planetarium	
2012-2013	Teaching Assistant	University of Washington
	+ Taught two bi-weekly tutorial sessions for two college astronomy courses	
2010-2012	High School Teacher	St. Luke's School, New Canaan CT
	+ Created and taught a rigorous, college-level elective course in astrophysics aimed at seniors interested in pursuing college classes in the field	
	+ Taught three sections of 11th grade physics with a focus on astronomy, helping students develop critical thinking and creative problem solving skills	
2009-2010	Science Associate & Tutor	Swarthmore College
	+ Directed weekly large-group study sessions for an introductory course in astronomy; tutored students in courses in mechanics and E&M	