rodrigo **luger**

coordinates

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Center for Computational Astrophysics, NY

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.

stats

Total Pubs	**35**
Refereed	**30**
First Author	**10**
Citations	**1326**
h-index	**17**

popular code

`starry`
Analytic light curves

`planetplanet`
P-P occultations

`everest`
K2 de-trending

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

positions

2018– **Flatiron Fellow** — Center for Computational Astrophysics, New York, NY
+ Develop and maintain the `starry` light curve modeling code
+ Develop methods to detect & characterize exoplanets with TESS and JWST

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

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

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