






ERIN GRAND



EDUCATION

- 2016
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2014
- **M.S., Data Science**
Columbia University  New York, NY
- 2014
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2007
- **M.S. Astronomy and B.S., Astronomy and Physics**
University of Maryland  College Park, MD

TECH EXPERIENCE

- current
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2016
- **Data Scientist**
Uncommon Schools  New York, NY
 - Produced high-quality analytics work around student and staff data, including prediction models around student state exams, student enrollment, and staff recruitment.
 - Lead 6+ group trainings on the R programming language for 10+ coworkers, Created git training and policies to introduce git to team
 - Automated manual state exam reporting process saving 6+ hours of processing time
- 2016
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2015
- **Data Scientist**
Crisis Text Line  New York, NY
 - Built and shipped a new volunteer application that was used by 7600 applicants. Increased the completion rate from 40% to 90%
 - Identified trainee drop off times for trainers. Produced cohort reports of training metrics. Identified key differences among cohorts to provide trainers with new solutions
 - Identified counselor churn as the largest organizational priority, and set up tracking, reporting, and analysis of key metrics
- 2016
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2014
- **Data Librarian / Software Engineer**
NASA Goddard Space Flight Center  Greenbelt, MD
 - Reformatted science data images to be compatible with WMS tile servers. Products are used as part of the educational Science on a Sphere and NASA Earth and Space Observatory programs.
 - Designed traveling Hubble Space Telescope exhibits' new iPad kiosks using HTML, JavaScript, and Kiosk Pro

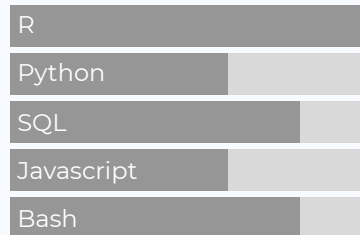
RESEARCH EXPERIENCE

- 2014
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2011
- **Research Assistant**
University of Maryland  College Park, MD
 - Researched the formation mechanisms of molecular pillars, such as the Eagle nebula's Pillars of Creation
 - Compared CARMA observations of high density gas to model predictions. Created IDL and Python scripts to process, analyze, and display the results
- 2011
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2010
- **Summer Intern**
NASA Goddard Space Flight Center  Greenbelt, MD
 - Performed analysis on raw data from the Swift observatory to produce a three-colored ultraviolet image of the Andromeda galaxy¹
 - Image has been featured on Astronomy Picture of the Day² twice since publication
 - Developed bash shell scripts to manually set the aspect correction of images from the Swift satellite allowing the data to be used in further research

CONTACT

✉ eringrand@gmail.com
🐦 [astroeringrand](https://twitter.com/astroeringrand)
🐙 github.com/eringrand
🔗 eringrand.github.io
in linkedin.com/in/eringrand

LANGUAGE SKILLS



RELEVANT COURSES

Algorithms, Statistical Inference, Data Visualization, Machine Learning, Modeling Social Science, Core Methods in Educational Data Mining

MEMBERSHIPS

R-Ladies NYC board member 2020