

# ERIN GRAND

Data Scientist with 5+ years of experience data processing and using predictive modeling, Constantly learning something new. Involved in R open source community and board member of R-Ladies NYC.

## EDUCATION

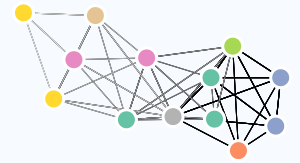
- 2016 | 2014  
● **M.S., Data Science**  
Columbia University  
📍 New York, NY
- 2014 | 2007  
● **M.S. Astronomy and B.S., Astronomy and Physics**  
University of Maryland  
📍 College Park, MD

## RESEARCH EXPERIENCE

- 2014 | 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 | 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 galaxy<sup>1</sup>
  - Image has been featured on Astronomy Picture of the Day<sup>2</sup> 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

## INDUSTRY EXPERIENCE

- current | 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
  - Automated manual state exam reporting process saving 6+ hours of processing time

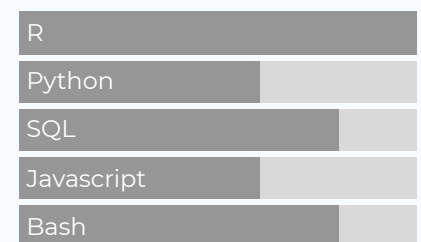


View this CV online with links at [eringrand.github.io](http://eringrand.github.io)

## CONTACT

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

## LANGUAGE SKILLS



I have 5+ years working with data science in various domains where I can learn from my peers. Algorithms, Statistical Inference, Data Visualization, Machine Learning, Modeling Social Science, Core Methods in Educational Data Mining. [page-down. The source code is available on github.com/eringrand/cv.](https://github.com/eringrand/cv)

Last updated on 2020-06-23.

2016  
|  
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  
|  
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



## TEACHING EXPERIENCE

2014  
|  
2010



### Teacher's Assistant

University of Maryland

📍 College Park, MD

- Developed discussion activities, motivated group discussion and peer learning, incorporated technology resources such as educational online videos, and graded assignments
- Received award for Excellence and Innovation in Undergraduate Teaching in the I-Series Courses



## SELECTED DATA SCIENCE WRITING

2017



### R in the World of Education<sup>4</sup>

[eringrand.github.io](http://eringrand.github.io)

2017



### Text Analysis of The Lizzie Bennet Diaries

[eringrand.github.io](http://eringrand.github.io)

I am passionate about education. I believe that no topic is too complex if the teacher is empathetic and willing to think about new methods of approaching task.

NA



## SELECTED PRESS (ABOUT)

2015



### A Q & A with Erin Grand, Data Scientist at Crisis Text Line<sup>5</sup>

Data Science Institute



## MEMBERSHIPS

current  
|  
2019



**R-Ladies NYC board member**  
R-Ladies NYC



## LINKS

- 1: [https://www.nasa.gov/mission\\_pages/swift/bursts/uv\\_andromeda.html](https://www.nasa.gov/mission_pages/swift/bursts/uv_andromeda.html)
- 2: <https://apod.nasa.gov/apod/ap101027.html>
- 3: NA
- 4: <https://eringrand.github.io/education-data/>
- 5: <https://www.datascience.columbia.edu/q-erin-grand-data-scientist-crisis-text-line>



## HOBBIES:

Royal Scottish Country Dancing, Singing, Board Games