# ERIN GRAND

Data Scientist with 10+ 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

**M.S., Data Science**
Columbia University 
New York, NY
2016 | 2014

**M.S. Astronomy and B.S., Astronomy and Physics**
University of Maryland 
College Park, MD
2014 | 2007

## RESEARCH EXPERIENCE

**Research Assistant**
University of Maryland 
College Park, MD
2014 | 2011

- Researched the formation mechanism of molecular pillars such as the Eagle Nebula's Pillars of Creation
- Used python and IDL to compare observations of high-density gas to model predictions. Visualized, analyzed, and presented on the results
- Ran the observations at CARMA observatory for 2+ weeks yearly

**Summer Intern**
NASA Goddard Space Flight Center 
Greenbelt, MD
2011 | 2010

- Performed analysis in perl on raw data from the Swift observatory to produce a three-colored ultraviolet image of the Andromeda galaxy[1]
- Image has been featured on Astronomy Picture of the Day[2] 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
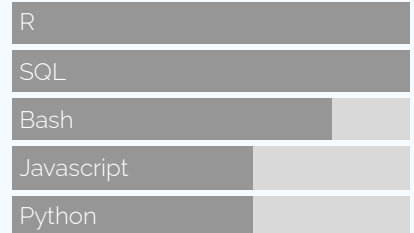
## INDUSTRY EXPERIENCE

**Freelance Data Scientist**
Current | 2024

## CONTACT

✉ eringrand@gmail.com
 github.com/eringrand
🔗 eringrand.github.io
in linkedin.com/in/eringrand

## LANGUAGE SKILLS

R
SQL
Bash
Javascript
Python

## RELEVANT SKILLS

dbt, docker, aws redshift

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.

**2024**
|
**2016**

### Senior 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 attrition/recruitment. Excellent communication with stakeholders throughout the analysis projects.
- Daily use of R and SQL to interact with data stored in AWS Redshift. Produced clean working data sets with dbt and git.
- Lead 6+ group trainings on the R programming language for 10+ coworkers, created git training and policies to introduce git to the team
- Automated annual state exam reporting using R saving 10+ hours of processing time

**2016**
|
**2015**

### Data Scientist

Crisis Text Line                                      ● New York, NY

- Built and shipped a new volunteer application that 7600 applicants used. Increased the completion rate from 40% to 90%
- Identified key drop-off points for trainees. Produced cohort analyses of key metrics. Identified unique differences among cohorts to provide trainers with new solutions
- Identified counselor churn as the most significant organizational priority and developed automated tracking, reporting, and analysis of key metric

**2016**
|
**2014**

### Data Librarian / Software Engineer

NASA Goddard Space Flight Center                     ● Greenbelt, MD

- Reformatted science data images to be compatible with WMS tile servers. Images are a 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

**2021**

### Nonprofit Data Science Jobs[3]

https://eringrand.github.io/datasciencejobs)

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Blog posts are fun

2017 **R in the World of Education**[4]

https://eringrand.github.io/education-data/

2017 **Text Analysis of The Lizzie Bennet Diaries**[5]

https://eringrand.github.io/lizziebennet_textmining/

## SELECTED PRESS (ABOUT)

2015 **A Q & A with Erin Grand, Data Scientist at Crisis Text Line**[6]

Data Science Institute

## MEMBERSHIPS

**R-Ladies NYC board member**

R-Ladies NYC

## HOBBIES:

Royal Scottish Country Dancing, Singing, Board Games

## LINKS

1: https://www.nasa.gov/mission_pages/swift/bursts/uv_andromeda.html
2: https://apod.nasa.gov/apod/ap101027.html
3: https://eringrand.github.io/datasciencejobs
4: https://eringrand.github.io/education-data/
5: https://eringrand.github.io/lizziebennet_textmining/
6: https://www.datascience.columbia.edu/q-erin-grand-data-scientist-crisis-text-line