

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

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 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

2011
|
2010

Summer Intern

NASA Goddard Space Flight Center

📍 Greenbelt, MD

- Performed analysis in perl 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



INDUSTRY EXPERIENCE

Current
|
2024

Freelance Data Scientist

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 Jobs³

<https://eringrand.github.io/datasciencejobs>

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.

Blog posts are fun

2017

• **R in the World of Education⁴**

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

2017

• **Text Analysis of The Lizzie Bennet Diaries⁵**

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



SELECTED PRESS (ABOUT)

2015

• **A Q & A with Erin Grand, Data Scientist at Crisis Text Line⁶**

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>

Made with the R package **[pagedown](#)**.

The source code is available [on github.com/eringrand/cv](https://github.com/eringrand/cv).

Last updated on 2024-09-10.