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 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

CONTACT

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

LANGUAGE SKILLS

R	
SQL	
Bash	
Javascript	
Python	

RELEVANT COURSES

dbt, docker, aws redshift

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

Data Scientist

Crisis Text Line

2016 | 2015

📍 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

Data Librarian / Software Engineer

NASA Goddard Space Flight Center

2016 | 2014

📍 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

Teacher's Assistant

University of Maryland

2014 | 2010

📍 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

Nonprofit Data Science Jobs[4]

eringrand.github.io

2021

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

2017 ● **R in the World of Education**[5]
eringrand.github.io

● **[Text Analysis of The Lizzie Bennet Diaries**
](https://eringrand.github.io/lizziebennet_textmining/)
 📍 eringrand.github.io

2017

📰 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

🔗 LINKS

1: 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/datasciencejobs
5: https://eringrand.github.io/education-data/
6: https://www.datascience.columbia.edu/q-erin-grand-data-scientist-crisis-text-line

🔖 HOBBIES:

Royal Scottish Country Dancing, Singing, Board Games