

# ERIN GRAND



## EDUCATION

2016  
|  
2014

**M.S., Data Science** Columbia University

New York, NY



## TECH EXPERIENCE

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



## 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<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

## CONTACT

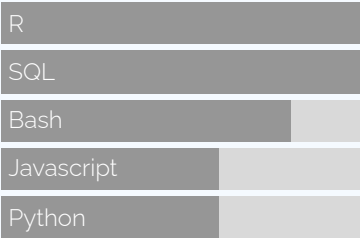
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## LANGUAGE SKILLS



## RELEVANT SKILLS

dbt, docker, aws redshift

## RELEVANT COURSES

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

## MEMBERSHIPS

**R-Ladies NYC board member 2020**