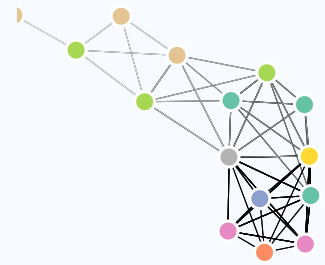


# ERIN GRAND

I have made visualizations viewed by hundreds of thousands of people<sup>1</sup>, sped up query times for 25 terabytes of data by an average of 4,800 times<sup>2</sup>, and built packages for R<sup>3</sup> that let you do magic<sup>4</sup>.

Currently searching for a position that allows me to build tools leveraging a combination of visualization, machine learning, and software engineering to help people explore and understand their data in new and useful ways.



## EDUCATION

- 2016  
|  
2014  
● **M.S., Data Science**  
Columbia University  
New York, NY
- 2014  
|  
2011  
● **M.S. Astronomy**  
Unvisity of Maryland  
College Park, MD
- 2011  
|  
2007  
● **B.S., Astronomy and Physics**  
Unvisity of Maryland  
College Park, MD

## RESEARCH EXPERIENCE

- 2014  
|  
2011  
● **Research Assistant**  
Unvisity 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  
|  
2011  
● **Summer Intern**  
NASA Goddard Space Flight Center  
Greenbelt, MD
  - Performed analysis on raw data to produce a three-colored ultraviolet image of the Andromeda galaxy
  - Image has been featured on Astronomy Picture of the Day twice since publication
- 2010  
|  
2010  
● **Summer Intern**  
NASA Goddard Space Flight Center  
Greenbelt, MD
  - Developed bash shell scripts to manually set the aspect correction of images from the Swift satellite allowing the data to used in further research

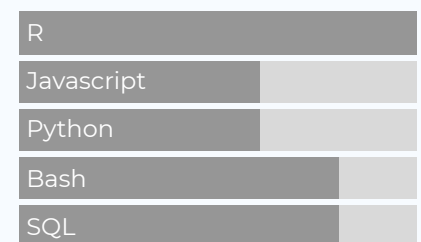
## INDUSTRY EXPERIENCE

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)
- 🌐 [linkedin.com/in/eringrand](https://linkedin.com/in/eringrand)

## LANGUAGE SKILLS



Made with the R package [page-down](https://github.com/josiahmcloughlin/page-down).

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

Last updated on 2020-06-16.

I have worked in a variety of roles ranging from journalist to software engineer to data scientist. I like collaborative environments where I can learn from my peers.

Current  
|  
2016



### Data Scientist

Uncommon Schools

📍 New York, NY

- Produced high-quality analytics work around student, and teacher data
- Taught coworkers basics and best practices of R coding
- Set up automatic connections to databases to allow for automatic nightly refreshes of data analyses

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. Presented results to a staff of 35

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 KioskPro



## TEACHING EXPERIENCE



### Teacher's Assistant

Univisity 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>6</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.

I regularly blog about data science and visualization on my blog [LiveFreeOrDichotomize](http://LiveFreeOrDichotomize).<sup>5</sup>



## SELECTED PRESS (ABOUT)

2015



**A Q & A with Erin Grand, Data Scientist at Crisis Text Line<sup>7</sup>**  
Data Science Institute



## MEMBERSHIPS

Current  
|  
2019



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



## LINKS

- 1: <https://www.nytimes.com/interactive/2016/08/26/us/college-student-migration.html>
- 2: [https://livefreeordichotomize.com/2019/06/04/using\\_awk\\_and\\_r\\_to\\_parse\\_25tb/](https://livefreeordichotomize.com/2019/06/04/using_awk_and_r_to_parse_25tb/)
- 3: <https://github.com/nstrayer/shinysense>
- 4: <http://nickstrayer.me/dataDayTexas/>
- 5: <https://livefreeordichotomize.com/>
- 6: <https://eringrand.github.io/education-data/>
- 7: <https://www.datascience.columbia.edu/q-erin-grand-data-scientist-crisis-text-line>



## HOBBIES:

Royal Scottish Country Dancing, Singing, Board Games