Margaret Furr
Data Scientist

margaretmfurr@gmail.com

(757) 374-3566 | https://mfurr.carbonmade.com

PROFILE
Data and Information scientist with a strong math background and experience with public data sources. Passionate about solving problems using quantitative and qualitative methods. Interested in systems design and strategy and operations.

SKILLS
Data Science: classification, regression, clustering, feature engineering, social network analysis, geospatial analysis, survey analysis, natural language processing, hypothesis testing and confidence intervals, principal component analysis and dimensionality reduction, systems analysis, business analysis; familiar with time series analysis and probabilistic record linkage
Software and Programming Languages: R (primary), Python (want to be primary), SQL, ArcGIS, QGIS, Tableau, Periscope; familiar with MapReduce, AWS, linux, Java, SAS
Soft: cross-functional teamwork, knowledge management, strategic alignment, facilitation, requirements gathering, interviewing, international teamwork, report writing

EDUCATION
General Assembly   **Washington, DC**
Data Science   June 2017 - August 2017

University of Virginia   **Charlottesville, VA**
MS, Data Science, GPA: 3.91   July 2014 - December 2015
- **Award:** Best Paper at 2015 SEIDS Conference in the Health and Safety Track for "Predictive models for severe sepsis in adult ICU patients", a paper that presents results of 8 machine learning models for predicting severe sepsis

BA, History   August 2010 - May 2014
- **Relevant Coursework:** Computer Science, Statistics, Calculus II, Linear Algebra, Digital Information Studies

RELEVANT WORK EXPERIENCE
EVERFI   **Washington, DC**
Data Analyst   April 2016 - Present
- Build a model for clustering students based on their responses to survey questions, which leads to new data stories
- Present the results of analysis conducted with 6 descriptive metrics and statistical tests, which results in improved strategies for communicating the impact of 11 products
- Promote a standardized statistical approach to assessing online learners, which leads to high quality assessments
- Develop quantitative insights on online learner's attitudes and behaviors to support the writing of 2-3 white papers per year, which strengthens business relationships in the financial services and technology industries
- Write R functions, which supports streamlining the reporting of 50-200+ data points for 6-10 online courses and which leads to creating a package for functional code
- Produce and commit code to Github, which leads to live dashboards being created for sales teams to use
- Delegate 5-10 ad hoc SQL reporting tasks to a database expert in India per month and communicate report requirements with internal company stakeholders, which leads to opportunities to collaborate cross-functionally
- Communicate data architecture and collection needs with the engineering team once per month, which supports the engineering team in the data system requirements gathering process
- Introduce new staff to the data structure and lead new staff in exploratory data analysis projects

DataKind Corps   **East Coast, USA**
Data Ambassador   October 2017 - July 2018
- Collaborate with a team of data experts across the east coast in exploring and modeling data, which leads to the development of a foster care case complexity score and a case manager route recommendation system
- Manage communication with Community-Based Care Florida, which supports understanding data and project goals and which leads to presenting project deliverables to the client

Clarity Campaign Labs   **Washington, DC**
Analyst Fellow   January - April 2016
- Analyzed data on political candidates and their platforms, which led to political campaign strategy development
- Taught staff how to implement a regression analysis, which strengthened the firm's research
- Created maps of national voter scores to support a key client, which resulted in a Medium blogpost

Bluestone Logic   **Washington, DC**
Systems Analyst and Designer Intern   December 2015 - April 2016
- Applied a systems analysis methodology to define a problem of poor integration of workflow tools and designed a chatbot solution, which supported the firm's ability to engineer a product that streamlines processes

LEADERSHIP
Next Gen Council Member, Byte Back (June 2017 – Present)
Strategic Alignment Consultant - Compass Pro Bono (October 2016 - Present)
Data Science Volunteer, Data Ambassador - DataKind DC (January 2016 - Present)