KAIRSTEN FAY

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WORK EXPERIENCE

DATA ANALYST, FEB 2017 - PRESENT

INSTITUTE FOR HEALTH METRICS AND EVALUATION, SEATTLE, WA

- Built a machine learning library to improve epidemiological predictions in data-sparse areas for multiple risk factors. Increased model performance 50%-100% on average from old statistical methods and gained approval from the IHME scientific council.
- Improved the ETL pipeline code. Updated it to process data more quickly and altered the extraction process reducing extraction time by 20% and saving 600 hours of Data Analyst time
- Pioneered the use of dynamic dashboards for story prototyping and data validation, replacing static graphs and saving 300 hours of Data Analyst time.
- Performed statistical data analysis and data visualization for internal and external communications including publications and press releases

DATA TECHNICIAN, JAN 2015 - SEP 2016

NC STATE UNIVERSITY, RALEIGH, NC

- Created an unprecedented, geospatial data set using literature review and museum collections to research the shifting winter coat color distribution of animals worldwide due to climate change.
- Publicized the dataset by building a visualization dashboard on Tableau public.
- Increased data coverage by 15% by recruiting collaborators' help at inaccessible museums.

EDUCATION

PROFESSIONAL DEVELOPMENT, MAR 2018 – PRESENT

UNIVERSITY OF WASHINGTON

3.9 GPA. Coursework in Computer Programming

B.S. BIOLOGY, CONCENTRATION IN ECOLOGY, EVOLUTION, AND CONSERVATION, MAY 2015

NC STATE UNIVERSITY

4.0 GPA. Calculus and chemistry tutor. Certificate in ArcGIS Desktop.

SKILLS

- Languages: Python, R, Java, MySQL, JavaScript, HTML/CSS
- Libraries: Scikit-Learn, Pandas, NumPy, Tidyverse, Seaborn, Matplotlib, NLTK, Flask, Django, Caret
- Technologies: Tableau, Superset, Git, Docker, Azure, Git, Unix

SELECTED PUBLICATIONS

- Co-author: Winter Coat Color Polymorphisms Identify Global Hotspots for Evolutionary Rescue from Climate Change. Science. 2018.
- Co-author: Global Burden of Disease risk factors capstone. The Lancet. 2017.