KAIRSTEN FAY

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EXPERIENCE

FEB 2017 – PRESENT

DATA ANALYST, INSTITUTE FOR HEALTH METRICS AND EVALUATION, SEATTLE, WA

- Designed dynamic dashboards using Tableau and Superset for data validation and exploration instead of static graphs and saved 300 hours of Data Analyst time. Collaborated on the specifications of the dashboards with the faculty leader to support the stories he needed to tell
- Used Python, R, and SQL to perform statistical data analysis and data visualization for internal and external communications including publications and press releases
- Controlled the ETL pipeline code (Python). Updated it to process data more quickly and altered the extraction process to move away from cleaning scripts, reducing the extraction time by 20% and saving 600 hours of Data Analyst time
- Used machine learning (Python) to improve epidemiological predictions in data-sparse areas and increased model performance 50%-100% on average. Gained methodology approval from the IHME scientific council

JAN 2015 – SEP 2016

DATA TECHNICIAN, NC STATE UNIVERSITY, RALEIGH, NC

- Created an unprecedented data set via literature review and museum trips 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 museum data coverage by 15% by recruiting collaborators' help at inaccessible locations.

EDUCATION

PROFESSIONAL DEVELOPMENT, UNIVERSITY OF WASHINGTON

Computer Programming I

MAY 2015

B.S. BIOLOGY, NORTH CAROLINA STATE UNIVERSITY

4.0 GPA. Caldwell Fellow. Coursework in statistics and genetics.

DATA SCIENCE SPECIALIZATIONS, COURSERA

Earned 18 certificates through Johns Hopkins, University of Washington, and UC San Diego

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.
- Co-author: Genetic and genomic response to selection for food consumption in *Drosophila melanogaster*. **Behav Genet**. 2016.