KAIRSTEN **FAY**

Seattle, WA · (704) 975-3698
kairsten.fay@gmail.com · **Personal Website** · **Linked In**

EXPERIENCE

FEB 2017 – PRESENT

DATA ANALYST, 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
- Designed dynamic dashboards in Tableau and Superset (open-source) for data validation, replacing static graphs and saving 300 hours of Data Analyst time.
- Performed statistical data analysis and data visualization across distributed systems for internal and external communications including publications and press releases

JAN 2015 – SEP 2016

DATA TECHNICIAN, 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

MAR 2018 – PRESENT

PROFESSIONAL DEVELOPMENT, UNIVERSITY OF WASHINGTON

3.9 GPA. Coursework in computer programming I and II

MAY 2015

B.S. BIOLOGY, NORTH CAROLINA STATE UNIVERSITY

4.0 GPA. Caldwell Fellow. Coursework in statistics and genetics. Certificate in ArcGIS Desktop.

LANGUAGES

Proficient in Python and R. Prior experience in Java, SQL, JavaScript

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.