**KAIRSTEN FAY**

Seattle, WA · (704) 975-3698

kairsten.fay@gmail.com · [Personal Website](http://kairstenfay.github.io/) · [LinkedIn](http://www.linkedin.com/in/kairsten-fay)

# 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.
* Received the Rising Star award, 2018. Nominated also for Innovator of the Year and Outstanding Growth.
* 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. Awarded the Caldwell Fellowship, 2012-2015. Calculus and chemistry tutor

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, Unix, Azure, ArcGIS

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.