

# 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.
- 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.
- Refactored the team's website and added interactive visualizations (<http://nutrition.healthdata.org>)
- Produced publication-quality statistical data analyses and data visualizations for scientific publications, press releases, and external data requests.
- Built an HTTP-based RESTful API for programmatic querying of a central database.
- Actively took on leadership roles including launching a staff feedback group, organizing a monthly game night, hosting book clubs, leading a weekly team code review, and supervising a student assistant

### DATA TECHNICIAN, JAN 2015 – SEP 2016

NC STATE UNIVERSITY, RALEIGH, NC

- Publicized an unprecedented geospatial dataset using Tableau's website for public visualization dashboards.
- 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, Flask
- Technologies: Tableau, Superset, Git, Docker, Rancher, Unix, Azure, ArcGIS, Distributed computing systems