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| **Kairsten** Fay  Seattle, WA · (704) 975-3698  kairsten.fay@gmail.com · [Personal Website](http://kairstenfay.github.io/) · [LinkedIn](https://www.linkedin.com/in/kairsten-fay/) |

# work Experience

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| Data analyst, Feb 2017 – PresentInstitute 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 2016NC 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

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| Professional development, mar 2018 – presentUniversity of washington 3.9 GPA. Coursework in Computer Programming |
| B.S. Biology, concentration in ecology, evolution, and conservation, May 2015nc state university 4.0 GPA. Calculus and chemistry tutor. Certificate in ArcGIS Desktop. |

# Skills

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| * 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

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| * 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. |