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

# Experience

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| Feb 2017 – PresentData 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 for internal and external communications including publications and press releases |
| Jan 2015 – Sep 2016Data 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

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| Mar 2018 – Presentprofessional development, University of Washington 3.9 GPA. Coursework in Computer Programming (Java) |
| May 2015B.S. Biology, North Carolina State University 4.0 GPA. Caldwell Fellow. Calculus and chemistry tutor. Coursework in statistics and genetics. Certificate in ArcGIS Desktop. |

# languages

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

# 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. |