

AVA HOFFMAN

Data Scientist

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avahoffman

www.avahoffman.com



EXPERIENCE

Fred Hutch Cancer Center · Senior Staff Scientist

07/2022 - present · Seattle, WA (remote)

- Led \$579k NIH-funded program ("**GEMs**") to democratize genomics education through scalable genomic data science training modules, directing collaboration between research institutions and under-resourced colleges
- Developed and taught \$200k/yr **Data Science for Environmental Health program**, educating 40 trainees and public health government professionals annually



Johns Hopkins University · Faculty Associate

05/2021 - present · Baltimore, MD

- Taught grad-level **Introduction to R for Public Health Researchers** (7x), including wrangling, stats, and visualization essentials
- Taught grad-level **Baltimore Community Data Science** (2x): consulting-like service learning course that partners with community organizations to meet their data-related needs



Johns Hopkins University · Postdoctoral Fellow

03/2020 - 05/2020 · Baltimore, MD

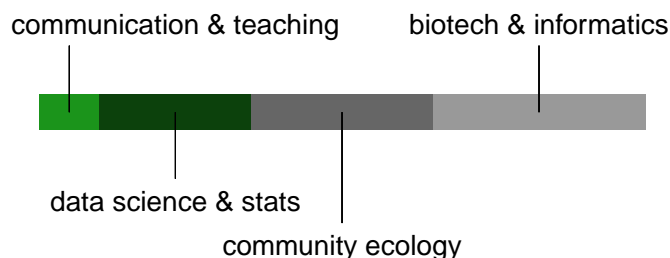
- Led the Urban Evolution Comparative Study, quantifying how 1000+ plants adapted to 6 city landscapes at the genomic level



Boston Consulting Group · Data Scientist

03/2019 - 03/2020 · Boston, MA

- Productionalized PySpark pipeline describing client's 20K+ commercial banking customers for better product recommendations & risk intervention
- Designed & hosted fully customized RShiny dashboard for reducing internal carbon emissions by 30% in 5 years



EDUCATION



PhD Ecology · Colorado State University

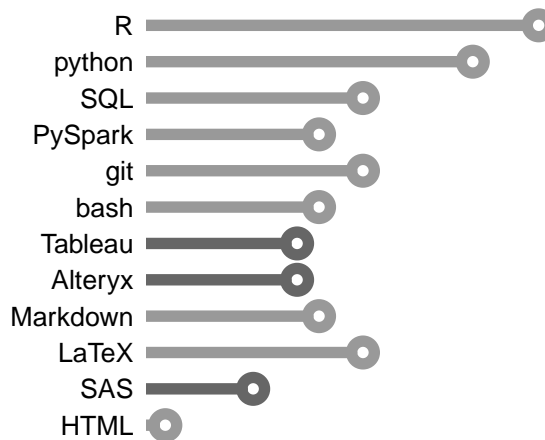
05/2019 · Fort Collins, CO



BS Biology · University of Virginia

05/2012 · Charlottesville, VA

SKILLS



statistics

Bayesian methods (RStan) · hierarchical models · mixture models · multivariate statistics · ANOVA · MANOVA · PERMANOVA · dimensionality reduction · repeated measures

supervised learning

random forest · time series · linear, nonlinear, logistic regression · LDA · SEM

unsupervised learning

PCA · k-means · feature engineering

ACHIEVEMENTS



Sustainability Leadership Fellow

2017-2018 · Colorado State University



Vice President for Research Fellow

2016-2017 · Colorado State University



18 peer-reviewed publications

2010-2020 · [Google Scholar](#)

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EXPERIENCE (cont.)



Insight Data Science · Data Science Fellow

09/2018 - 03/2019 · Remote Program

- Developed and launched **National Perks Project** to improve National Park visitor experience, modeling crowds over 500+ months & accommodating user preferences
- Built a fully customized web app using Git, Python, & Flask, providing visitors with actionable recommendations & access to further resources



Colorado State University · USDA NIFA Fellow

01/2017 - 12/2018 · Fort Collins, CO

- Proposed & established the **Blue Grama Diversity Project** to reveal genetic diversity & guide conservation in a key grass species, while communicating take-home facts to the Front Range non-science community
- Pioneered genomic sequencing & population delineation using 9,000+ genomic features
- Modeled hierarchical linkages between genomics, populations, & plant traits, developing analytical workflows using R & RStan