

Zane Rankin

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PROFESSIONAL EXPERIENCE

Uptake Technologies – Chicago, IL

Data Scientist

Feb 2019 – present

- Deployed supervised and unsupervised learning techniques using both streaming and batch scoring architectures on Uptake's cloud-based IoT platform.
- Collaborated with external business stakeholders to maximize reliability of electrical grid infrastructure, increasing insight acceptance from 50% to 80%
- Nimble managed dependencies between engineering, product, and sales teams, concurrently delivering three applications on aggressive timelines
- Eagerly took risks and applied new methods and data sources; my proof-of-concept model predicting electrical outages using weather and geospatial vegetation data won the 2020 department hackathon

Institute for Health Metrics and Evaluation – Seattle, WA

Researcher – Simulation Sciences

Sept 2017 – Feb 2019

- Supervised data analysts to extract large health datasets and develop regression and machine learning algorithms
- Developed disease components within open source Python simulation to model health interventions
- Collaborated with software engineers and health experts to ensure application quality and scalability
- Created interactive data visualizations to present cost-effectiveness estimates to non-technical stakeholders

Post-Bachelor Fellow (Quantitative Analyst)

Sept 2014 – Sept 2017

- Modelled population health burden of anemia and blindness using frequentist and Bayesian models
- Developed R software used by dozens of analysts to streamline census and survey data extraction across institute
- Assisted creation of the Healthcare Access and Quality Index, a composite measure of health system performance

EDUCATION

University of Washington

GPA 3.72

2017

MPH | Health Metrics and Evaluation

Spatial Epidemiology, Biostatistics, Implementation Science

Practicum: Analyzed chronic disease comorbidity for Mexico's Instituto Nacional de Salud Pública

Thesis: *Impact of Development Assistance for Health on Maternal and Child Health*

University of California, Berkeley

GPA 3.96

2014

BS Environmental Science | BA Integrative Biology

Summa Cum Laude

National Merit Scholar, Robert C. Byrd Scholar, Dean's Honors, Babcock Prize for Excellence in Environmental Sciences

Thesis: *Life history diversity and resiliency of steelhead trout: A case study from the Pescadero Watershed*

SKILLS

Statistical Analysis: Python, R, SQL, scikit-learn, tensorflow, cloud computing

Economic Analysis: regression analysis, cost-effectiveness analysis, microsimulation development

Interactive data visualization: Dash, R Shiny, Tableau

LEADERSHIP AND INTERESTS

President & House Manager, Berkeley Student Cooperative

Volunteering - Cooking Matters – bilingual nutrition and cooking instruction for low income families

Ultimate Frisbee – Captain, Coach, Professional Athlete, World Champion