

# Joseph Knox

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## EDUCATION

### UNIVERSITY OF WASHINGTON

M.S. IN APPLIED MATHEMATICS

June 2018 | Seattle, WA

### UNIVERSITY OF WASHINGTON

B.S. IN INDUSTRIAL ENGINEERING

Minor in Applied Mathematics

June 2016 | Seattle, WA

## SKILLS

### PROGRAMMING

Fluent: • Python •  $\text{\LaTeX}$

Conversational: • C • Bash/sh • SQL

## PROJECTS

### MCMODELS | MAINTAINER

mouse\_connectivity\_models

Dec 2017 – | Python

Python library for mesoscopic full-brain connectivity models in mouse.

### RISTRETTO | PRIMARY CONTRIBUTOR

April 2018 - | Python

Randomized matrix factorization library written in Python.

## COURSEWORK

### GRADUATE

Combinatorial Optimization

Computational Methods for Data Analysis

Computational Neuroscience

Statistical Analysis of Social Networks

Statistical Computing

### UNDERGRADUATE

Stochastic Modeling and Decision Analysis

Linear and Network Programming

High-Performance Scientific Computing

Machine Learning

## EXPERIENCE

### ALLEN INSTITUTE FOR BRAIN SCIENCE | DATA ANALYST

June 2017 - Present | Seattle, WA

### RATLAB LLC | RESEARCH INTERN

July 2016 – Jan 2017 | Seattle, WA

- Designed and conducted experiments for product research and development
- Wrote statistical machine learning scripts to investigate technology efficacy and optimize hardware design
- Worked in multidisciplinary team with dynamic responsibilities including systems administration, hardware design, and market research

### COLLEGE WORKS PAINTING | MANAGER

Feb 2015 – Sept 2015 | Seattle, WA

- Ran marketing campaign resulting in 8 new clients resulting in \$35,000 in personal sales
- Acted as project manager, recruiting, hiring, and training 3 employees (with zero employee turnover)
- Planned production schedule and successfully coordinated all projects, interacting with clients daily and ensured customer satisfaction

## PUBLICATIONS