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Education

University of Washington, Seattle
Doctor of Philosophy, Biomedical Engineering

University of California, Los Angeles
Bachelor of Science, Molecular and Cellular Biology

Experience

PhD Student, *Biomedical Engineering, University of Washington, Sept. 2014-Present*

- Mapping the human neo-cortex based on brain connectivity information using parametric and non-parametric clustering methods
- Analyzing neuron projection patterns using multivariate spatial statistical models
- Developing neural network architecture to learn patterns of motion corruption in structural MRI data
- Studying dynamics of resting-state brain activity using modal decomposition methods

Software Engineering Intern, *Phase Genomics, April 2017–June 2017*

- Developed meta-genome DNA clustering algorithms for proprietary Python-based software platform
- Learned and employed principles of testing-driven software development
- Gained experience using AWS for cloud computing

Data Science Intern, *Pacific Northwest National Laboratory, Dep. of Energy, June 2016-Sept. 2016*

- Studied data structures related to dynamic graphs
- Analyzed dynamical systems of functional MRI to characterize patterns of brain activity, which translated into journal paper

Skills

- Python, R, C++, Java, Matlab
- Image processing, network statistics, machine learning, data structures / algorithms, bayesian methods, deep learning
- Linux, Bash, Git, Continuous Integration

Positions

President, BioEngage: *University of Washington*
- Interface with leaders in Pacific Northwest biotech industry to build meaningful research collaborations with UW Bioengineering program