Tyler **Bradshaw, PhD**

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Summary

I am a diligent and driven computational and molecular biologist. In my PhD work I combined cutting-edge spatial and proximity proteomics tools to solve problems in molecular neuroscience. I am a self-taught programmer and data scientist, and have pioneered novel computation pipelines and molecular techniques in numerous projects aimed at understanding the organization of the neuronal proteome and its dysregulation in disease. I am interested in a career where I can continue to draw together ideas and approaches spread across the fields of proteomics and computer science to help bridge gaps in our understanding the cellular biology of health and disease.

Work Experience

Graduate Research Assistant, Soderling Laboratory   *Fall 2016 - Spring 2021*

DUKE UNIVERSITY   *Department of Neurobiology*

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Research Technician, Soderling Laboratory   *May 2014 - May 2016*

DUKE UNIVERSITY   *Department of Cell Biology*

- Established use of CRISPR-based tools for gene depletion
- Performed immunoblotting, immunostaining, and cell and tissue culture
- Generation of adeno associated virus for injection into mice
- Maintained mouse colony with >30 strains of mice

Skills

Computational Biology

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Molecular Biology

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Education

Duke University   *Soderling Laboratory, Department of Cell Biology*

PHD IN NEUROBIOLOGY   *Fall 2016 - May 2021*

- Statistical Inference and Community Detection in Proximity and Spatial Proteomics

Unversity of Washington   *Seattle, Washington*

BS IN MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY   *Fall 2010 - Spring 2014*

- Bornfeldt Laboratory