

Tyler W. A. Bradshaw

NEUROBIOLOGY PHD CANDIDATE

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“Be the change that you want to see in the world.”

Education

Duke University

PHD IN NEUROBIOLOGY

- Soderling Laboratory

Durham, North Carolina

Fall 2015 - Spring 2021

University of Washington

B.S. IN MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY

- Bornfeldt Laboratory

Seattle, Washington

Fall 2010 - Spring 2014

Skills

Data Science linear models, mixed models, clustering of graphs

Molecular Neuroscience Cloning, Immunoblotting, Immunostaining, AP-MS, Proximity Proteomics, Spatial Proteomics

Programming R, Python, Bash, LaTeX

Languages English

Work Experience

Soderling Laboratory, Department of Cell Biology, Duke University

RESEARCH TECHNICIAN

- Established use of CRISPR tools in the Soderling lab
- Performed immunoblotting, immunostaining, and cell and tissue culture
- Maintained mouse colony with >30 strains of mice

Durham, NC

May 2014 - May 2016

Honors & Awards

2018-2021 **Ruth L. Kirschstein National Research Service Award**, NIH NRSA 5F31NS113738-03

Duke University

Presentation

DevFest Seoul by Google Developer Group Korea

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

Seoul, S.Korea

Nov. 2017

Publications

Courtland *et al.*,

CO-FIRST AUTHOR

- *Genetic Disruption of WASHC4 Drives Endo-lysosomal Dysfunction and Cognitive-Movement Impairments in Mice and Human.* Jamie Courtland, Tyler Bradshaw, Greg Waite, Erik Soderblom, Tricia Ho, Anna Rajab, Ricardo Vancini, Il Hwan Kim, Scott Soderling. *bioRxiv*

eLife

2021

Uezu *et al.*,

CO-SECOND AUTHOR

- *Identification of an Elaborate Complex Mediating Postsynaptic Inhibition.* Akiyoshi Uezu, Daniel J. Kanak, Tyler W.A. Bradshaw, Erik J. Soderblom, Christina M. Catavero, Alain C. Burette, Richard J. Weinberg, and Scott H. Soderling. *Science* 2016 Sep 9; 353(6304): 1123–1129. DOI: 10.1126/science.aag0821

Science

2016

Gao et al.,[Neuron](#)

Co-AUTHOR

2018

- *Plug-and-Play Protein Modification Using Homology-Independent Universal Genome Engineering.* Yudong Gao, Erin Hisey, **Tyler W.A. Bradshaw**, Eda Erata, Walter E. Brown, Jamie L. Courtland, Akiyoshi Uezu, Yu Xiang, Yarui Diao, and Scott H. Soderling. *Neuron* 2018 July 1; S0896-6273(19)30523-9. **DOI:** 10.1016/j.neuron.2019.05.047

Uezu et al.,[eLife](#)

Co-AUTHOR

2019

- *Essential role for InSyn1 in dystroglycan complex integrity and cognitive behaviors in mice.* Akiyoshi Uezu, Erin Hisey, Yoshihiko Kobayashi, Yudong Gao, **Tyler W.A. Bradshaw**, Patrick Devlin, Ramona Rodriguez, Purushothama Rao Tata, and Scott Soderling. *eLife* 2019 Dec 12;8:e50712. **doi:** 10.7554/eLife.50712.