Scott D. Huber

40 W Tulane Rd., Apt. D
Columbus, OH 43202
(217)-597-4461
Schuber6@gmail.com

EXPERIENCE

Graduate Research Assistant   2015-present
Kural Lab, The Ohio State University, Columbus, OH
- Cultured cells and preformed experiments with fluorescence microscopes and optical tweezers
- Adapted and applied particle tracking software to microscope image sequences
- Designed data structures to hold particle trajectories
- Analyzed gigabyte-sized particle trajectory data sets to find trends
- Tested hypotheses using statistics and simulations
- Developed new methods to display trends in my data in an intuitive manner
- Presented findings as well as current research at weekly group meetings and poster sessions

2012-2015

Graduate Teaching Assistant
The Ohio State University, Columbus, OH
- Instructed students in recitation and laboratory classes
- Evaluated homework and exams

SELECTED PUBLICATIONS

"Deciphering dynamics of clathrin-mediated endocytosis in a living organism"
Joshua P. Ferguson, Nathan M. Willy, Spencer P. Heidotting, Scott D. Huber, Matthew J. Webber, Comert Kural. J Cell Biol, 2016

"Mechanoregulation of clathrin-mediated endocytosis"
Joshua P. Ferguson, Scott D. Huber, Nathan M. Willy, Esra Aygün, Sevde Goker, Tugba Atabey, Comert Kural. J Cell Sci, 2017

SKILLS

Programming: MATLAB, Python, LATEX, SQL, and batch processing/supercomputing
Scientific toolset: Statistical hypothesis testing, academic math and science background
Presentation skills: PowerPoint, GIMP, presentation experience to audiences with different levels of subject-matter familiarity
Analysis specialties: Image-based data sets, graphical representation of complex data

EDUCATION

Doctorate of Philosophy, Physics   December 2018
The Ohio State University, Columbus, OH
Concentration: Biophysics

Masters of Science, Physics   2015
The Ohio State University, Columbus, OH
Concentration: Biophysics

Bachelor of Science, Physics   2012
The University of Illinois, Urbana, IL,
Minor: Mathematics