

WILL MCFADDEN

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EDUCATION

University of Chicago *exp. May 2016*
Ph.D. in Biophysical Science with certificate in University Teaching GPA: 3.66/4
Thesis: *Computational models of filament recycling in active networks*

University of Illinois at Urbana-Champaign *Dec 2009*
B.S. in Engineering Physics with minors in Mathematics and Computer Science GPA: 3.67/4

EXPERIENCE

Artifice Tech Education www.artificechicago.org
Instructor, Board Secretary, and CTO *Dec 2013 - Present*

- Launched after-school electronics courses and developed online learning materials for ages 12+
- Managed volunteer instructors and aided recruiting efforts to quadruple our volunteer staff
- Led development team in administrating internal operations and expanding public relations efforts

University of Chicago www.uchicago.edu
Teaching Assistant *March 2012 - Present*

- Designed and taught two original graduate-level workshops in computational modeling and biophysics
- Assisted with teaching four undergraduate courses in biology, geophysics, and chemistry

University of Chicago, Munro Research Group munrolab.bsd.uchicago.edu
Ph.D. Research Assistant *Aug 2011 - Present*

- Mentored incoming graduate students in computational modeling and biophysics

AWARDS AND HONORS

University of Chicago Art+Science Collaboration Grant 2011, 2015
Physical Sciences Teaching Prize, Honorable Mention 2014
University of Illinois, Student Employee of the Year, Honorable Mention 2010
University of Illinois College of Engineering, James Scholars 2007-2010
National Merit Scholarship 2006-2010

LIFE ACHIEVEMENTS

Survived a day without water in a desert slot canyon; Climbed a downtown Chicago high rise; Played at the House of Blues; Gave a best man's speech; Built a treehouse in a Puerto Rican rain forest; Hitchhiked to California; Wrote a rock opera; Went without eating for three days; Biked from Illinois to the Atlantic;

PUBLICATIONS & PRESENTATIONS

- William McFadden Jon Michaux and Edwin Munro. Modeling the role of filament recycling in steady-state flows of actomyosin networks. In *Biophysical Society 60th Annual Meeting*, 2016.

- Will McFadden Anita Nikolich Ray Parpart and Birali Runesha. Saving on data center energy bills with edeals: Electricity demand-response easy adjusted load shifting. In *USENIX Workshop on Cool Topics in Sustainable Data Centers*, 2016.
- W McFadden A Nikolich S Jacobs, R Parpart and B Runesha. Conserving energy in heterogeneous clusters. In *MindBytes Research Computing Expo and Symposium*, 2015.
- Francois B Robin, William M McFadden, Baixue Yao, and Edwin M Munro. Single-molecule analysis of cell surface dynamics in *caenorhabditis elegans* embryos. *Nat Meth*, 11(6):677–682, June 2014.
- J. Alberts W. McFadden and E. Munro. Physical models of cortical flows during polarity maintenance in *c. elegans* embryos. In *ASCB Annual Meeting*, 2012.
- S-C Lee William McFadden, Rob Kooper and Peter Bajcsy. *Application of Machine Learning*, chapter Comprehensive and Scalable Appraisals of Contemporary Documents, pages 87–108. InTech, 2010.
- Jason Kastner Michal Ondrejcek Kenton McHenry Rob Kooper, William McFadden and Peter Bajcsy. Mining large size complex pdf documents for industrial knowledge management and preservation. In *2009 NCSA Private Sector Program (PSP) Annual Meeting*, 2009.
- W. McFadden S-C. Lee and P. Bajcsy. Text, image and vector graphics based appraisal of contemporary documents. In *7th International Conference on Machine Learning and Applications*, 2008.
- R. Kooper M. Ondrejcek A. Yahja W. McFadden, K. McHenry and P. Bajcsy. Advanced information systems for archival appraisals of contemporary documents. In *4th IEEE International Conference on e-Science and Microsoft eScience Workshop*, 2008.