WILL MCFADDEN

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EDUCATION

University of Chicago *exp. Sept 2016*
Ph.D. in Biophysical Science with certificate in University Teaching
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

SKILLS

Languages & Markup	Java, MATLAB, Python, JS, bash, perl, SQL, CSS, HTML, LaTeX
Protocols, Frameworks, APIs	MPI, Hadoop, GAE, AWS, Arduino, Bluetooth, D3, JSON, GMaps
Packages & Software Tools	scipy, pandas, sklearn, IPython, git, AutoCAD, Inkscape, WordPress

EXPERIENCE

University of Chicago, Research Computing Center Apr 2015 - Present
Research Assistant *Chicago, IL*
· Analyzed supercomputer power usage to optimize datacenter energy saving strategies
· Published and presented measurement techniques and analysis pipeline at international conference

Artifice Tech Education Jan 2014 - Present
CTO and Board Secretary *Chicago, IL*
· 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, Munro Research Group Aug 2011 - Present
Ph.D. Research Assistant *Chicago, IL*
· Devised statistical methods for novel single-molecule measurement techniques and published results
· Collaborated with experimentalists to build computational models of active biopolymer materials
· Mentored incoming graduate students in data analysis and computational modeling

Bionic Trader Systems Sep 2011 - Dec 2012
Software QA Consultant *Chicago, IL*
· Advised on user experience and stress testing of financial trading software

Institute for Genomic Biology, Robinson Research Group Oct 2009 - May 2010
Compuational Research Assistant *Urbana, IL*
· Built automated video data collection system and data analysis pipeline

National Center for Supercomputing Applications, ISDA Research Group Jun 2008 - Jun 2009
Research Programmer *Urbana, IL*
· Developed machine vision software for large volume electronic document appraisal

LIFE ACHIEVEMENTS

Survived day without water in a desert slot canyon; Played the House of Blues; Gave best man's speech; Hitchhiked to California; Wrote rock opera; Fasted for three days; Biked from Illinois to the Atlantic;