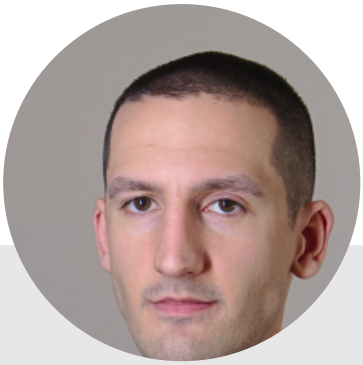

Jeffrey P Hafner

Physicist

May 23 1983

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About me

I am a geek, a skeptic and I wear bowties for fun.

Skill

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

interests

Backpacking/Racquetball

awards

2014	University at Maryland Intramural Racquetball Champion

education

2001-2006	M.S. Biophysics and Math studies	Andrews University
2008–2012	Ph.D. Physics Validation and refinement of coarse grained protein models.	University at Buffalo

publications

2009	Hafner J & Zheng W. Approximate normal mode analysis based on vibrational subsystem analysis with high accuracy and efficiency. J. Chem. Phys. 130, 194111 2009. (pdf)
2010	Hafner J & Zheng W. Optimal modeling of atomic fluctuations in protein crystal structures for weak crystal contact interactions. J. Chem. Phys. 132, 014111 2010. (pdf)
2011	Hafner J & Zheng W. All-atom modeling of anisotropic atomic fluctuations in protein crystal structures. J. Chem. Phys. 135, 144114 2011 (pdf)

experience

2005	Wilderness Guide and Camp Counselor Was responsible for takings boys on 10 day excursions throughout the state of Maine.	Flying Moose Lodge
2006–2008	Teaching Assistant Was responsible for laboratories and recitations.	University at Buffalo
2008–2011	Research Assistant Research that produced three peer reviewed publications.	University at Buffalo
2012	Postdoctoral Implemwentation of Particle Mesh Ewald Electrostatics for Continuous Constant pH Molecular Dyanmcis in CHARMMM.	University at Maryland
2013	Towson University Teaching the laboratory section of Light and Color	Adjunct Physics Professor
2014–2015	Baltimore City Public Schools Teaching physics first at Mervo	Physics Teacher
2015–2016	Masters School Teaching 11^{11} and AP Physics B Mechanics	Physics Teacher
2016–Current	IPsoft Inc Diagnose and Resolve clients Unix Requests	Unix/Automation Engineer

Projects

2004 NSF REU at Penn State	Implemented a monte carlo modeler in Matlab to mo
PHY405: Applied Mathematics	in Octave
PHY477: Advanced Physics Lab II	Validated predicted reverberation times based on blu Performing Arts Center
PHY506: Computational Physics 2	Implemented a cellular automata traffic modeler in
PHY515: High Performance Computing	Parallelized my dissertation project using ScaLAPA
PHY536: Computational Biology	Implemented a 2D Hydrophobi-Hydrophilic Protein Colony Optimization algorithm in python.
physicsAMC	A comprehensive physics exam bank that utilizes an selection.
physicsReport	An example lesson plan, and lab report template tha teacher