Jeffrey **Hafner**

PHYSICIST

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"Before you leave the house, look in the mirror and take one thing off."–Coco

Summary

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

Education

Andrews University   *Berrien Springs, MI*

B.S./M.S. IN BIOPHYSICS AND MATHEMATICAL STUDIES   *Aug. 2001 – Aug. 2006*

3.31 GPA

University at Buffalo   *Buffalo, NY*

PH.D IN PHYSICS   *Aug. 2006 – Feb. 2012*

3.50 GPA

Experience

Flying Moose Lodge   *East Orland, ME*

WILDERNESS GUIDE AND CAMP COUNSELOR   *2005*

- Was responsible for takings boys, aged 8–16, on 10 day excursions throughout the state of Maine.
- State of Main licensed Wilderness guide, American Red Cross certified lifeguard.

Buffalo, NY   *2008–2011*

RESEARCH ASSISTANT   *University at Buffalo*

Produced three peer reviewed publications.

Baltimore, MD   *2012*

POSTDOCTORAL   *University at Maryland*

Implementation of Particle Mesh Ewald Electrostatics for Continuous Constant pH Molecular Dynamics in CHARMMM.

Towson, MD   *2013-2014*

ADJUNCT PHYSICS PROFESSOR   *Towson University*

Teaching Light and Color, an introductory physics course

Baltimore, MD   *2014–2015*

PHYSICS TEACHER   *Baltimore City Public Schools*

Teaching physics first at Mervo

Dobbs Ferry, NY   *2015–2016*

PHYSICS TEACHER   *Masters School*

Teaching 11[11] and AP Physics B Mechanics

Manhattan, NY   *2016–Current*

UNIX/AUTOMATION ENGINEER   *IPsoft Inc*

Provide Unix related automation to clients through an ITIL framework utilizing Ansible and IPautomatas

Projects

0.1   Courses

hrefwww.psu.eduPenn State University   *Andrews University*

NSF REU   *University Park, PA*

Summer 2004

Implemented a monte carlo modeler in Matlab to model kinesin processivity under William Hancock.

Andrews University   *Berrien Springs, MI*

PHY447: Advanced Lab 2   *Spring 2005*

Validated predicted reverberation times based on blue print of the Howard Performing arts center

Andrews University   *Berrien Springs, MI*

PHY447: Advanced Lab 2   *Aug. 2014 - Apr. 2016*

Validated predicted reverberation times based on blue prints of the Howard Performing arts center

University at Buffalo   *Buffalo, NY*

PHY506: Computational Physics 2   *Spring 2008*

Implemented a cellular automata traffic modeler in python

University at Buffalo   *Buffalo, NY*

PHY515: High Performance Computing 1   *Fall 2008*

Implemented a cellular automata traffic modeler in python

Parallelized my dissertation project using ScaLAPACK

University at Buffalo   *Buffalo, NY*

CSE536: Computational Biology   *Fall 2011*

Implemented a 2D Hydrophobic-Hydrophilic Protein folder utilizing Ant Colony Optimmization Algorithm in Python.

University at Buffalo   *Buffalo, NY*

Doctoral Dissertation titled: *Validation and Refinement of Course Grained Protein Models*   *2008–2011*

- About a 100 pages of text, Over 5000 lines of C, and 1000 lines of Python.
- Work was performed on the computing resources of UB Center for Computational Research

0.2   Vocational

physicsAMC   *PhysicsAMC*

Physics Teacher   *See Experience*

Dec. 2014 - Mar. 2014

- A comprehensive physics exam bank that utilizes an lpeg parser for question selection.
- sample-exam

Awards and Certifications ─────────────────────

2013–2014 Season	**Intramural Champion**, University of Maryland	*Baltimore, MD*
2016	**Red Hat Certified System Administrator**, License 130-172-497	*RHCSA*
2016	**Cisco Certified Entry Networking Technician**, License CSCO12981391	*CCENT*