Michael Flashman

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EDUCATION

Cornell University Ithaca NY, PhD Applied Mathematics (expected 2016)

Graduate Coursework

Dynamical Systems	Probability	Real Analysis	Statistical Mechanics
Matrix Computations	Computer Graphics		

Reed College Portland OR, BA Physics May 2008
Senior Thesis: *Modified Electrodynamics: Fixing Relativistic Field Theories*

Undergraduate Coursework

Multivariable Calculus I & II	Linear Algebra	Abstract Algebra
Ordinary Differential Equations	Complex Analysis	Real Analysis
Classical Mechanics	Electrodynamics I & II	Classical Field Theory
Quantum Mechanics I & II		

Computer Experience

Proficient in Ruby, Python, JavaScript, SQL, HTML, CSS, MATLAB, Mathematica, R, git, LaTeX
Some experience with C, OpenGL, Illustrator, Photoshop

EXPERIENCE

Research Assistant, Cornell University, Ithaca NY, Jun 2012–Aug 2012
Working under Prof. Ginsparg, wrote python based code to perform unsupervised analysis of large time-scale language patterns in the arXiv e-print database.

Teaching Assistant, Cornell University, Ithaca NY, Aug 2011–May 2012
Spring: grader for introductory course in real analysis. Fall: lead teaching assistant for introductory course in programming with MATLAB.

Junior Software Developer, Intersect.com, Seattle WA, Sep 2009–May 2011
Worked with team of six developers to build a web platform for community journalism. Responsible for code development (HTML, CSS, JavaScript, ruby, SQL, C), fixing defects, QA, data-analysis; designed and implemented spectral clustering of geo-temporal data and content ranking system.

Editorial Associate, under Dr. Joel Franklin, Reed College, June 2008–Aug 2008, June 2009
Performed comprehensive editing, for accuracy, style, and content, of his undergraduate physics text, *Advanced Mechanics: An Introduction to General Relativity*, Cambridge University Press.

REU Fellow, Santa Fe Institute, Santa Fe NM, June 2007–Aug 2007
Conducted independent research under Dr. Eric Smith concerning the plausibility of a metabolism-first scenario for the origin of life and graph theoretic formalisms for describing chemical reactions

Nuclear Reactor Operator, Reed Research Reactor, Portland OR, Aug 2005–May 2006
Responsible for reactor operation, sample preparation, operator training, and emergency response

PATENTS (PENDING)

Inventors: Peter Rinearson, Kristofor Selden, Michael Flashman
US 20120005209, SYSTEMS AND METHODS FOR IDENTIFYING INTERSECTIONS USING CONTENT METADATA

HONORS

Phi Beta Kappa, Reed College, 2008
Commendation for Academic Excellence, Reed College, 2005–2008
California State Arts Scholar, 2004
High School Salutatorian, 2004

WEB

`cam.cornell.edu/~mtf53`
`github.com/flashman`
`bonerbucks.org`

INTERESTS AND ACTIVITIES

ceramics (9 yrs.), sculpture (5yrs.), soccer(14 yrs.), taxidermy (3 yrs.), bm(2 yrs)