Steven Ulin

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Education

Rensselaer Polytechnic Institute (RPI) B.S. Physics and Mathematics   May 2014

GPA 3.7, Dean's List for all semesters
President of the Society of Physics Students
Member of Sigma-Pi-Sigma

Coursework

Pattern Recognition – Graduate Level
- Studied a variety of techniques including linear classification, support vector machines, neural networks, and clustering
- Designed and built a system to analyze the sentiment of twitter data as applied to the global stock market

Advanced Computational Physics – Graduate Level
- Studied computational algorithms as applied to physics, such as Finite Element Methods, Molecular Dynamics, Statistical Growth, and Transfer Matrices
- Implemented programs to simulate Diffusion-limited Aggregation, the nonlinear Schrdingers Equation, and Molecular Dynamics

Experimental Physics
- Assembled, implemented, and analyzed experiments under laboratory conditions
- Produced technical papers in the style seen in modern scientific journals

Notable Courses

Data Structures · Stochastic Methods · Probability Theory and Applications · Numerical Computing · Quantitative Analysis · Quantum Physics · Complex Analysis · Thermodynamics and Statistical Mechanics · Public Speaking

Experience

Software Engineering Intern The Blackstone Group   June 2013 - August 2013
- Built an automated testing system utilizing the technologies Selenium and TeamCity that is currently in production
- Worked closely with the India based Quality Assurance Team to develop a viable product

Physics Researcher Milky Way at Home Research Group   May 2012-August 2012
- Collaborated to program massive parallel computing system of N-Body simulations in order to study dark matter in dwarf galaxies
- Utilized MilkyWay@Home, a 40,000 user cloud donating over 520 teraflops of computational power

Teaching Assistant Physics with Matlab and Mathematica – RPI   August 2012-December 2013
- Designed basic models of physical systems with Matlab and Mathematica
- Taught, led, and produced material for the course while accommodating multiple learning styles

Skills

C++	C#	Python	Matlab
Mathematica	Mathematical Modeling	Machine Learning	Latex