

## Kevin Byrnes

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### Education:

- Ph.D. Student, Applied Mathematics and Statistics, Johns Hopkins University, exp. 2008 (GPA 4.00/4.00)
- Master of Engineering, Operations Research and Industrial Engineering, Cornell University, 2004 (GPA 3.3/4.00)
- B.A. magna cum laude, Economics, minor Mathematics, Rutgers University, 2003 (GPA 3.78/4.00)

### Experience:

- **Intern, Summer 2006**  
Constellation New Energy Group  
Co-authored paper developing new fundamental pricing model for energy futures. Created SQL database to download current weather and spot price information. Developed and implemented econometric algorithms in S Plus to forecast energy demand and spot price. Generated weekly group-wide portfolio position reports.
- **Research Assistant, 2004-present**  
Johns Hopkins University, Department of Mechanical Engineering  
Devised clustering and optimization algorithm for Prof. Ilene Busch-Vishniac under NSF grant 'Optimal Curriculum Generation'.
- **Lecturer, Summer 2005**  
Johns Hopkins University, Department of Applied Mathematics and Statistics  
Completely developed and taught course in introductory statistics. Composed and presented lectures, prepared homework and exams, assisted students one on one.
- **Teaching Assistant, 2004-Present**  
Johns Hopkins University Department of Applied Math and Statistics  
Prepared and presented material for conference sections, graded homework and exams, and provided individual assistance for students in: differential equations, optimization, mathematical modeling.
- **Peer Mentor, 2001-2003**  
Rutgers University, Department of Mathematics  
Assisted teaching assistant in presenting material in conference section, graded assignments, provided homework assistance for students, for calculus 1 and calculus 2.

### Related Coursework:

Stochastic Processes, Stochastic Calculus, Optimization, Numerical Analysis, Simulation, Probability, Microeconomics, Investment Science, Money and Banking, Portfolio Optimization

### Computer Skills:

Fluent in: Matlab, SQL, Maple, Mathematica, Excel.  
Proficient in: Visual Basic, S Plus, C++, Java.  
Excellent technical writer and communicator.

**Honors and Awards:**

- Counselman Fellowship, Johns Hopkins University, 2005
- Master of Engineering Fellowship, Cornell University 2003
- Charles Winfield Merit Scholarship, Rutgers University 2002
- Alan Marc Schreiber Mathematics Merit Scholarship , Rutgers University 2001
- Outstanding Scholar Recruitment Program Scholarship , Rutgers University 1999

**Other Experience:**

Graduate Representative, Johns Hopkins University Department of Applied Mathematics

References available upon request.