

Ross M. Anderson

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Education **Cornell University**, Ithaca, NY, August 2005 - May 2009
- Majors: Operations Research and Engineering, Computer Science
- Minors/Concentrations: Applied Mathematics, Economics
- GPA: 3.87. Major GPA: 3.92. Dean's List Fall 2005 through Spring 2008.
- Rank within ORIE: 5 of 129
- GRE: Math 800, Verbal 560, Writing 5
- Math GRE Subject Test: 630
Unatego Jr. Sr. High School, Otego, NY, September 2001 - June 2005
- GPA: 97.28
- SAT I: Math 780, Verbal 760
- SAT II: Chemistry 770, US History 760, Math 750, Writing 720

Related Course Work	Operations Research	Computer Science
	Graduate Convex Analysis	Graduate Analysis of Algorithms
	Graduate Scheduling Theory	Automata Theory
	Graduate Mathematical Programming	Discrete Structures
	Stochastic Processes	Operating Systems
	Probability and Statistics	Scientific Computing
	Simulation	Systems Programming
	Industrial Data Systems	Functional Programming
	Financial and Managerial Accounting	Object Oriented Programming
	Mathematics	Economics
	Real Analysis	Graduate Microeconomics
	Complex Analysis	Macroeconomics
	Linear Algebra	Behavioral Economics
	Differential Equations	

Research and Work Experience **Research On Burst Identification in Geodata**, Ithaca, NY, Fall 2008 – Present
- Worked with Professor David Williamson, based on a paper by Professor Jon Kleinberg.
- Hidden Markov model estimates changing arrival rate and spatial distribution of data.
- Dynamic programming algorithm computes most likely state sequence creating burst hierarchy.
- Wrote Java implementation of algorithm which uses data from the Flickr photo database.
Research On Ant Genetics, Ithaca, NY, Fall 2008 – Present
- Worked with a biology student to identify the number of queen ants and their genotypes given the genotypes of many of their offspring.
- Wrote a program in Java and AMPL that finds the minimum number of queens needed to produce the observed offspring.
Goldman Sachs Technology Summer Analyst, New York, NY, June – August 2008
- Improved flexibility, scalability and granularity in computing risk of the firm's positions
- Designed and implemented a caching system for routing data in Slang (proprietary language)
Goldman Sachs Technology Summer Analyst, New York, NY, June – August 2007
- Built a report generating tool for proprietary Object-Relational Mapper
- Worked in Java, used reflection and Swing extensively

Programming Languages Java, C, L^AT_EX, MATLAB, SML, Python, SQL, AMPL, R, Slang