

DAVID VALDMAN
CURRICULUM VITAE

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Department of Mathematics
UC Santa Barbara
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EDUCATION

PhD	University of California, Santa Barbara , Applied Mathematics	Expected 2011
	Advisor: Paul Atzberger	
MA	University of California, Santa Barbara , Applied Mathematics	September 2008
BA	New York University, New York , Mathematics with Honors	June 2005
	Minor: Physics	

FELLOWSHIPS AND AWARDS

IGERT Fellowship		UCSB 2009
Campus Wide TA Award - Voted by Freshman Undergraduates		UCSB 2006
NSF VIGRE Summer Research Fellowship		NYU 2004, 2005
Sidney Goldwater Roth Prize - For showing greatest promise in mathematics		NYU 2005
Hollis Cooley Award - For exceptional promise in mathematics		NYU 2005
Junior Mathematics Award - For excellence in mathematics as a Junior		NYU 2004
Founder's Day Award - For undergraduate scholarship		NYU 2005

RESEARCH

Areas of Interest: Numerical Analysis, Stochastic Processes, Applications to Biology.
Graduate Courses Taken: PDEs, Fluid Dynamics, Numerics, Probability, Stochastic Processes
Real / Complex Analysis, Differential Geometry, Variational Calculus, Quantum Mechanics.
Current Work: Developing spectrally accurate algorithms for finding equilibria configurations
of polyelectrolytes in constrained geometries.

EMPLOYMENT

Graduate Teaching Assistant , University of California, Santa Barbara	2006 - Present
Courses taught: Real Analysis, Linear Algebra and DEs., Calculus I, II, III.	
Junior Research Scientist , New York University	Summer 2005
Advisor: Jalal Shatah. Supported by NSF VIGRE grant.	
Quantitative Research Analyst , Gresham LLC., New York	2005-2006
Modelled and developed risk averse trading strategies for a commodities fund.	

TECHNICAL EXPERIENCE

- Proficient in Matlab. Experience with C, C++, ObjC, Perl, Mathematica.