

## EDUCATION

<b>Ph.D. Candidate, Mathematics: University of California; Los Angeles, CA</b>	<b>8/2007 - Present</b>
Expected Graduation Date: June 2012	
Research Specialization: Discrete Geometry.	
Doctoral Committee: Igor Pak (advisor), Benny Sudakov, Amit Sahai, Bruce Rothschild	
<b>MA, Mathematics: University of California; Los Angeles, CA</b>	<b>8/2007 - 12/2008</b>
<b>BS, Mathematics &amp; Physics (double major): Stanford University; Stanford, CA (GPA: 3.808)</b>	<b>9/2002 - 6/2006</b>

## WORK & RESEARCH

<b>Speaker, 2012 Joint Mathematics Meeting; Boston, MA</b>	<b>1/4-7/2012</b>
Invited to give a 20-minute presentation regarding my research on realizations of polyhedral complexes.	
<b>Teaching Assistant, UCLA Mathematics Department; Los Angeles, CA</b>	<b>9/2007 - Present</b>
Courses taught: Mathematics of Finance, Probability Theory, Game Theory, Linear Algebra, Intro to Programming (C++), Intro to Web Programming, Differential & Integral Calculus	
<b>Researcher, Wolfram NKS Summer School, University of Vermont; Burlington, VT</b>	<b>6/2007 - 7/2008</b>
Designed research project and met personally with Wolfram Research founder and CEO Stephen Wolfram. Studied aperiodic sums of sinusoids using an original discretization method. Programmed in Mathematica.	
<b>Researcher, Stanford Linear Accelerator Center; Stanford, CA</b>	<b>6/2005 - 07/2005</b>
Programmed scripts in Python for automating visualizations using LLNL's open source rendering program VisIt. (with Prof. Tom Abel)	
<b>Researcher, Stanford Physics Department; Stanford, CA</b>	<b>6/2004 - 7/2004</b>
Programmed algorithm in C++ to decode GPS waveform data into timestamps. (with Prof. Giorgio Gratta)	
<b>Software Developer, Global Nuclear Fuels/General Electric; Castle Hayne, NC</b>	<b>6/2003 - 9/2003</b>
Developed algorithms to compute graphical representations of nuclear reactor core specifications in Visual Basic.	
<b>Field Salesman, Cutco/Vector Marketing; Wilmington, NC</b>	<b>8/2002 - 9/2002</b>
Recognized as Advanced Sales Representative and Certified Field Trainer. Leading salesman in local office.	

## VOLUNTEER WORK

<b>Young At Heart; Stanford, CA</b>	<b>9/2002 - 4/2004</b>
Music Director. Lead weekly voice exercises, organized song repertoire, and determined the structure of rehearsal. Weekly vocal performances at nursing homes in the cities of Palo Alto, Menlo Park, and Mountain View.	

## LEADERSHIP

<b>Composer, Pianist, Founder, The Institute For the Advancement of Funk and Soul</b>	<b>9/2003 - 6/2005</b>
<b>Rower, Stanford Men's Crew Team</b>	<b>9/2002 - 5/2003</b>
<b>Runner, John T. Hoggard Cross Country Team</b>	<b>8/2001 - 11/2001</b>

## SKILLS (SOFTWARE & HARDWARE)

<b>Programming Languages</b> - C, C++, C#, Python, Visual Basic
<b>Software</b> - Experience programming in C, C++, C#, Python, Visual Basic, and LabVIEW; experience with HTML and CSS; extensive experience with Mathematica and MATLAB.
<b>Hardware</b> - Experience building and analyzing basic analog/digital circuits.

## MUSIC

10 years of classical piano lessons, 2 years of trumpet lessons (with Prof. Joyce Johnson-Hamilton), 3 years of guitar lessons, 2 years of voice lessons, numerous original compositions and recordings