

Table of Contents

Dmitrij Petters	1
Hrishikesh Joshi	2
Albert Kao	3
Terence Hsu	4
Zachary Dearing	5
Dmitrij Petters	6

# Dmitrij Petters

410 Memorial Dr. 431C  
Cambridge, MA 02139  
Phone: 425.681.2953  
dpetters@mit.edu

## EDUCATION

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**Massachusetts Institute of Technology:** GPA 4.8/5.0  
Bachelor of Science in Computer Science/Electrical Engineering & Mathematics

**Cambridge, MA**  
Sep 2009 - May 2013

- SAT: 2150 SAT Math II: 800 SAT Physic: 800 ACT: 33
- Awards: Parsons Brinkerhoff National Scholarship, Sparling Company Scholarship and Bellevue Rotary Club Scholarship Recipient
- Relevant Coursework: Software Construction, Digital Communication Systems, Intro to Algorithms, Computation Structures

**Bellevue College:** GPA 3.98/4.0 (supplemented high school curriculum)  
Associate Engineering Transfer: Track 2 with High Distinction

**Bellevue, WA**  
Sep 2007 - Jun 2009

## WORK EXPERIENCE

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**Susquehanna International Group**  
*Technology Intern*

**Bala Cynwyd, PA**  
Jun 2011 - Now

- Set up a Hadoop cluster on two dozen Windows nodes. Currently using mrjob to run workflows on both structured and unstructured data. The goal is to compare performance of the MapReduce tasks to traditional implementations running on the existing Condor setup.
- Wrote python and bash scripts to nightly create caches on the Condor cluster nodes using MySQL data logged from daily workflows.

**Athena Capital Research**  
*Software Engineer Extern*

**New York, NY**  
Jan 2011 - Feb 2011

- Created a risk graphing utility which used trader log data to simulate past activity, transfer it into a cache, and graph long/short position, exposure and limits versus time. Used Highcharts, ExtJS for front end, C++, Pion networking and Boost libraries in the backend.
- Wrote an ExtJS plugin to export GridPanels and its subclasses to CSV and XLS.

**Thomson Reuters**  
*Software Development Intern*

**Eagan, MN**  
Jun 2010 - Aug 2010

- Worked as team member of the website vertical - fixed high priority bugs, developed new features, attended design/planning meetings.
- Developed a data-mining script that used a state machine to extract pertinent info from tens of thousands of 50MB+ logs.
- Added a new, automated entry point into flagship product WestlawNext with check for Akamai & pinging of other servers.

**RBM Technologies**  
*Software Engineer Extern*

**Cambridge, MA**  
Jan 2010 - Feb 2010

- Developed the Ruby on Rails Mobile Visual Merchandising Manager app to allow retail workers to take digital pictures of fixtures and upload them as textures onto their respective floor plan 3D models.
- Programmed an automated RML based report using the RML2PDF conversion library which summarized nation-wide advertising campaigns for cellular firms such as Verizon, AT&T and T-Mobile.

**MIT AgeLab**  
*Undergraduate Researcher*

**Cambridge, MA**  
Oct 2009 - May 2010

- Combined PIL and ffmpeg to produce a video overlay that showed the exact spot in a driving simulation video at which a subject was looking at any given moment. The result was a proof of concept for a project that would allow a driver to make selections visually.

## ACTIVITIES/LEADERSHIP

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**Umeqo(.com)**  
*Co-Founder/Developer*

**Cambridge, MA**  
Feb 2010 - Present

- Launching the new recruiting resource for students and employers early September, with the Beta available for both parties late July.
- Developed the initial foundation for the site during the school year. Now collaborating with Zach Dearing and Joshua Ma over GitHub.

**Traders@MIT**  
*Exec Board*

**Cambridge, MA**  
Nov 2009 - Oct 2010

- Developing an OTC trading client that will be used for a trading simulation during the annual Traders@MIT competition in November.

**MIT / BHS Outdoor and Indoor Track and Field and Cross Country**  
*Varsity Runner*

**Cambridge, MA**  
Aug 2005 - May 2010

- 9:33 2 mile; 4:32 1 mile; Led Bellevue High School team to a 3rd place state finish, an improvement from previous 14th place finish.

## SKILLS AND INTERESTS

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- Technical – Java, Python, Django, JavaScript, jQuery, ExtJs, CSS, LaTeX with minor experience in C++, bash, batch
- Languages – Fluent in Russian
- Interests – TED talks, poker, street hockey, and entrepreneurship

**University Address:**  
229 Vassar St.  
Cambridge, MA 02139

# HRISHIKESH JOSHI

hjoshi@mit.edu  
(617).319.0244

**Home Address:**  
11201 Inwood Dr.  
Woburn, MA 01801

## EDUCATION

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**Massachusetts Institute of Technology (MIT)**  
Candidate for B.S., Computer Science & Mathematics  
GPA: 4.5/5.0 • Minors in Economics & Management Science

**Cambridge, MA**  
June 2013

**Plano Senior High School**  
GPA: 4.54/4.0 • Rank 3/1402

**Plano, TX**  
June 2009

## RESEARCH EXPERIENCE

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**Laboratory for Nuclear Science, Department of Physics, MIT**  
*Undergraduate Researcher, Dark Matter Detection Group*

**Cambridge, MA**  
Jan. 2010 - Present

- Used CCD camera data, statistical analysis, and detector images to determine the sources of background alpha particle radiation in the dark matter detector
- Used UNIX operating system, LATEX, C++, Emacs, and ROOT 5.14 for data analysis

**Department of Biology, University of Texas at Dallas**  
*Research Intern*

**Richardson, TX**  
June 2008 - July 2008

- Studied crucial role of RNA editing in the mitochondrial gene expression of *Physarum Polycephalum*
- Methods used: centrifugation, gel electrophoresis, polymerase chain reaction, DNA/RNA priming, amplification techniques, southern blot, nucleotide sequencing software, etc.

**Mathematical Analysis of the Sun's Differential Rotation**  
*Independent Researcher*

**Plano, TX**  
Aug. 2004 - Mar. 2008

- Implemented novel techniques to determine the angular rotational characteristics of the sun's differential rotation using MDI images from NASA's Solar & Heliospheric Observatory

## AWARDS AND LEADERSHIP

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- North Texas Youth Honor Society, *Vice-President* (2008), *Secretary* (2007) Aug. 2006 - May 2009
- Science Skeptical Society, *Co-Founder* and *Vice-President* Aug. 2007 - May 2009

### Computer Science:

Aug. 2008 - May 2009

- Winner of 2009 Annual Hewlett-Packard Competition
- Computer Science UIL Team, *Co-President*
- UIL Programming Examinations, Ranked Top 10 in State of Texas

### Mathematics:

Aug. 2005 - Mar. 2009

- American Invitational Mathematics Examination, 2-time qualifier, Ranked 1<sup>st</sup> in School
- Interests: number theory, prime number distribution, Riemann functions, etc.

### Science Fair:

Aug. 2004 - Mar. 2008

- Texas State Science Fair, 2-time qualifier
- Grand Prize Winner of Dallas Regional Science Fair (over 500 contestants)
- Discovery Young Scientist Challenge Semi-Finalist

## SKILLS

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**Technical:** C, C++, Python, Java, ROOT, LATEX, GNU Emacs, Microsoft Windows and Office

**Foreign Languages:** Fluent in Hindi and Marathi; 5 years of study in French

Term Address  
400 Memorial Drive  
Cambridge, MA 02139

# Albert Kao

alkao@mit.edu  
(603)770-8225

Home Address  
Wisteria 2D, 2419 Hong Qiao Rd  
Shanghai, China 200335

<b>EDUCATION</b>	<b>Massachusetts Institute of Technology (Cambridge, MA)</b> <i>Candidate for B.E in Chemical and Biological Engineering, minor in Management</i> <b>GPA: 4.8/5.0</b> Relevant Coursework: Differential Equations, Microeconomics, Organic Chemistry, Thermodynamics and Kinetics, Introduction to Chemical Engineering, Disease and Society in America, American Science: Ethical Conflicts and Political Choices	Expected Graduation May 2012
	<b>Phillips Exeter Academy (Exeter, NH)</b> <i>Cum Laude</i>	Graduated June 2008
<b>EXPERIENCE</b>	<b>MIT Belcher Lab (Cambridge, MA)</b> <i>Undergraduate Researcher</i> <ul style="list-style-type: none"><li>• Worked in the Belcher Lab to develop a biologically-catalyzed CO<sub>2</sub> sequestration system to remove CO<sub>2</sub> from a power plant and convert it to carbonate minerals</li><li>• Implemented lab techniques such as amplifying and cloning vectors in yeast</li><li>• Created MatLab simulations to find theoretical values of carbonate precipitation</li><li>• Compiled data from experiments done and presented the data to a small lab audience</li></ul>	June 2009-present
	<b>MIT Mechanical Engineering Lab (Cambridge, MA)</b> <i>Undergraduate Researcher</i> <ul style="list-style-type: none"><li>• Worked with post graduate student to find correlations between different SNPs with certain neurological diseases with QQ plots and manhattan plots</li><li>• Compiled and analyzed a large amount of categorical data</li></ul>	February-June 2009
	<b>Hua-Shan Hospital (Shanghai, China)</b> <i>Intern</i> <ul style="list-style-type: none"><li>• Translated patient information for Chinese-speaking doctors</li><li>• Attended to about 8-9 patients per day</li></ul>	Summer 2007
	<b>Deloitte Touche Tohmatsu (Shanghai, China)</b> <i>Intern</i> <ul style="list-style-type: none"><li>• Helped translate Accounting I and II Training Materials from Chinese to English</li><li>• Created a communication list that optimized interactions within the company</li></ul>	August 2006
	<b>SKILLS</b> Fluent in oral and written Mandarin; proficient in Matlab; competent with Word, Excel, Powerpoint	
<b>LEADERSHIP EXPERIENCE</b>	<b>Phi Beta Epsilon Fraternity (Cambridge, MA)</b> <i>Treasurer</i> <ul style="list-style-type: none"><li>• Solely responsible for summer residence, including recruiting over fifty people.</li><li>• Responsible for over \$300,000 of transactions a year, including payments to several vendors, taxes, contract negotiation with our chef, and payment collection from over sixty members</li><li>• Organized financial files to make filing and locating documents more efficient</li></ul>	October 2008-present
	<b>Camp Kesem Counselor (Camp Merrowvista, NH)</b> <ul style="list-style-type: none"><li>• Cared for children whose parents have cancer over a one week period</li><li>• Helped raise over \$20,000 to make camp free for all attending children</li></ul>	March 2009-present
	<b>MIT's Chinese Student Club (Cambridge, MA)</b> <i>Secretary</i> <ul style="list-style-type: none"><li>• Compiled all events into a calendar for the semester; helped publicize events to MIT</li><li>• Assisted in organizing the annual New Year Banquet that attracts around 200 people</li></ul>	January 2009-present
	<b>ACTIVITIES</b> Sloan Undergraduate Management Association Board, Eagle Scout, Basketball, Dance Troupe, MIT Undergraduate Practice Opportunities Program, MIT LeaderShape	

# TERENCE HSU

**University Address:** 400 Memorial Drive, Cambridge, MA, 02139

**Home Address:** 75 Lee Street, Brookline, MA, 02445

(617) 571-6662 • terenceh@mit.edu

## EDUCATION

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### Massachusetts Institute of Technology

Candidate for a S.B. in Mathematics with Computer Science

Candidate for a S.B. in Management Science

Candidate for a Minor in Economics

*Coursework in Mathematics:* Calculus I & II, Linear Algebra, Probability and Random Variables, Principles of Applied Mathematics

*Coursework in Finance:* Microeconomics, Macroeconomics, Finance Theory I, Management Communication

**Cambridge, MA**

Expected Graduation: June 2013

GPA: 4.4/5.0

### Buckingham Browne & Nichols School

Diploma with Honors • GPA: 3.6/4.0 • SAT: 800 M 750 CR 780 W

*Leadership: Peer Tutor President • Community Service Club President • Orchestra Concertmaster*

**Cambridge, MA**

Sep. 2005 - June 2009

## EXPERIENCE

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### Rackemann, Sawyer & Brewster

*Litigation Intern*

**Boston, MA**

Summer 2009

- Served as a research specialist for the litigation department, focusing on two main projects with regards to commercial real estate litigation.
- First project involved accounting of taxes and deeds of an estate in Nantucket. Work involved online research, collecting documents from courthouses, as well as compiling a database. Second project was a valuation of property holdings of parking garages in Boston. The analysis primarily called for modeling cash flows of the operation.

### Natixx Private Equity Asia Limited (NPEA)

*Analyst*

**Beijing, China**

Summer 2010

- Duties for growth capital firm concentrated on industry research and financial analysis for two developing deals, with secondary goal on maintaining deal/investee databases, as well as modeling an efficient system for monitoring and updating movement on the Shenzhen and South Korean exchanges.
- Tasked by first deal team to research the fertilizer and colorized fertilizer bag industry in China. Regarding NPEA's prospective synthetic materials company, analysis focused on export potential, overseas regulations, and competitive angles against Indian manufacturers and rival Chinese companies.
- Under second deal team, analyzed R&D potential for an office supplies manufacturer for a premium brand-name American company. After research, gained perspective on many exporting Chinese manufacturers' common failure to establish brand recognition beyond the importing brand names and worked with deal team to consult investee on how to establish independence beyond the O.E.M. industry.

## LEADERSHIP AND ACTIVITIES

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### Phi Beta Epsilon Fraternity, *Active Brother*

**2009-present**

- *Officerships:* Pledge Social Chair *Fall 2009*; Literary Chair *Fall 2010*

### Sloan Undergraduate Management Association, *Board Member*

**2009-present**

- As a junior project manager, primary goal is to plan networking exclusives for business-minded MIT students. Important aspect of event-planning calls for forging and maintaining crucial sponsors and support among companies interested in cultivating students' interest in the various industries in finance.

### MIT Resonance a capella, *Assistant Director*

**2009-present**

- Responsible solely for the musical aspect and direction of the group, which calls for leading training exercises, choosing concert set lists, reviewing and approving arrangements, conducting private teaching sessions, and using own musical insight and experience to lead the group to top performance quality.

*Volunteer Work: **Tenacity**, Tennis Instructor (2007-2009); **Graham & Parks School**, Tutor (2008-2009)*

## AWARDS AND HONORS

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- *High School Awards:* **Cum Laude Society** member (2009); **BB&N Citation of Honors** Recipient (2009); **National AP Scholar** Winner (2008)
- *Musical Awards:* **Harvard Musical Association Awards** Grand Prize (Piano: 2007); **MTNA National Composition Competition** Third Place (2006); **MTNA Northeast Composition Competition** First Place (2006); **MMTA State Piano Competition** Podium Winner (1999-2009)

## SKILLS AND INTERESTS

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- **Programming:** Python • HTML • MATLAB • L<sup>A</sup>T<sub>E</sub>X
- **Software:** Excel • Microsoft Office • Adobe Photoshop • Adobe Dreamweaver • IDLE
- **Foreign Languages:** English • Cantonese (conversational) • French (advanced) • Mandarin (advanced)
- **General Interests:** Piano • Violin • Composition • Singing • Tennis • Cycling • Scuba Diving

# Zachary R. Dearing

## Campus Address

32 Hereford Street  
Boston, MA 02115

Tel: (214) 923-0870  
Email: zdearing@mit.edu

## Home Address

207 N. Waverly Dr.  
Dallas, TX 75208

## EDUCATION

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY (JUNE 2012):** GPA 4.7/5.0

**CAMBRIDGE, MA**

*Candidate for Bachelor of Science in Economics and Political Science*

- *Relevant Coursework:* Principles of Microeconomics/Macroeconomics, Intermediate Macroeconomics, Finance Theory I/II, Accounting, Statistical Method in Economics, Single/Multivariable Calculus

**EPISCOPAL SCHOOL OF DALLAS (MAY 2008):** GPA 4.2/4.0 ACT 35/36

**DALLAS, TX**

- Salutatorian, National AP Scholar, National Merit Semi-Finalist

## EXPERIENCE

**GOLDMAN SACHS, AND CO**

**NEW YORK, NY**

*Summer Financial Analyst - Securities Division*

*Summer 2010*

- Worked on deal structuring project exploring arbitrage opportunities between pricing of mortgage backed securities and underlying collateral value
- Analyzed a publicly traded company (\$600 mm market cap) to determine if it was undervalued enough to warrant being taken private

**COMMUNICATION MEDIA ADVISORS**

**BOSTON, MA**

*Winter Consulting Analyst – Boutique Consulting and Investment Management Firm*

*Winter 2010*

- Staffed on due diligence project for large investment bank evaluating cable markets in Southern U.S.
- Modeled future revenue streams, operating costs, and growth opportunities based upon market trends and demographics
- Worked on a team of six with founding partner to construct predictive models and the final compendium

**CAPITAL IQ – A DIVISION OF STANDARD & POOR’S**

**NEW YORK, NY**

*Development Intern – Technical Product Specialist Team*

*Summer 2009*

- Developed an application to manage over 70 virtual machines with approximately 100 global users
- Wrote application in C# integrating VMWare ESX Servers, Active Directory, and Windows Instrumentation Management
- Led team of four organizing meetings, deliverables, and managing work streams to get application in to production

**MCCURLEY, ORSINGER, MCCURLEY, NELSON, & DOWNING**

**DALLAS, TX**

*Intern – Law Practice and Administration*

*Summer 2008*

- Assisted legal teams with case preparation by investigating witnesses and constructing cross examination questions
- Managed the opening of 25+ bank accounts thorough evaluating banks, handling interactions, assisting with cash management
- Charged with tracking over \$2.5 million among accounts to ensure that proper deposit levels were maintained

**MAVERICK CAPITAL**

**DALLAS, TX**

*Financial Analyst Intern – Operations and Hedge Fund Accounting*

*Summer 2007, August 2006*

- Parsed key information and consolidated funds’ prospectus for easier use by the senior traders
- Compiled over 10,000 past positions held and performance data to facilitate its use in a quantitative analysis project
- Maintained a 2,000+ item fixed asset register; supported the A/P group with Excel-based spreadsheet analysis

**UNITED STATES SENATE**

**WASHINGTON, D.C.**

*Page*

*January - June 2007*

- Facilitated voting procedure by ensuring senators voted and were informed on what issue was being decided upon
- Provided logistical support for senators and staff by assisting with any needs that they had while in the Senate Chamber

**ZD-PCs**

**DALLAS, TX**

*Founder and Owner – Computer Assembly Business*

*July 2002 - September 2004*

- Founded and ran a company with a total revenue of \$18,000 that built and sold custom computers direct to customers
- Designed a website application with CRM to spec custom computers online and provide real time quotes

## LEADERSHIP

**2012 RING COMMITTEE**

**CAMBRIDGE, MA**

*Co-Publicity Chair, Committee Member*

*2009– Present*

- Shared responsibility for design, marketing, and production of MIT 2012 Brass Rat with committee
- Led publicity efforts for events with a combined budget of \$70,000 and attendance of 800 people each

**Sloan Undergraduate Management Association (SUMA)**

**CAMBRIDGE, MA**

*Director, Corporate Relations Associate*

*Fall 2008 – Present*

- Organized first-ever MBA panel with representatives from Harvard, Sloan, etc, secured a \$2,000 sponsorship from Kaplan

**MIT UNDERCLASSMEN GIVING CAMPAIGN**

**CAMBRIDGE, MA**

*Co-Chair, Class of 2012*

*October 2008-Present*

- Devised innovative fundraising strategy leading class to raise a record \$7000 this year to fund student service trips abroad with a 45% participation rate

## INTERESTS/SKILLS

- |  |                    |                       |
|--|--------------------|-----------------------|
| ▪ Java, ASP .NET/C#, PHP, JavaScript, HTML | ▪ Marathon Running | ▪ Politics            |
| ▪ Chi Phi                                  | ▪ Golf             | ▪ Modern Architecture |

*Term Address*  
35 Brookline Ave. # 16  
Cambridge, MA 02139

**RYAN KO**  
rko@mit.edu || (510) 468-6998

*Home Address*  
782 Longfellow Drive  
Fremont, CA 94539

<b>Education</b>	<b>Massachusetts Institute of Technology</b> <i>Candidate, M.Eng. in Computer Science with a concentration in Systems</i> <i>Candidate, S.B. in Computer Science with a concentration in Political Science</i> <ul style="list-style-type: none"><li>• Law and Ethics on the Electronic Frontier, Environmental Law and Policy, Justice and Political Philosophy, American Politics, American Literature, Chinese I, II, III</li><li>• Computer Systems Engineering, Algorithms, User Interface Design, Multimodal User Interfaces, Computer Architecture, Software Construction, Artificial Intelligence</li><li>• Eta Kappa Nu Honor Society, GPA: 4.6/5.0, SAT: 800 Verbal/800 Writing/800 Math</li></ul>	<b>Cambridge, MA</b> June 2012 June 2011
<b>Work Experience</b>	<b>McKinsey &amp; Company</b> <i>Summer Business Analyst</i> <ul style="list-style-type: none"><li>• Assisting a leading U.S. wireline telecommunications company in developing best-in-class procurement strategies and protocols for its network and supporting hardware</li></ul>	<b>Palo Alto, CA</b> (Current) Summer 2011
	<b>Osha Liang</b> <i>Patent Prosecution Intern</i> <ul style="list-style-type: none"><li>• Drafted patent applications and legal arguments for responses to USPTO office actions at all stages of the patent prosecution process for numerous software industry clients including two IT 100 companies</li></ul>	<b>Santa Clara, CA</b> January 2011
	<b>Next Jump</b> <i>Web Applications Intern</i> <ul style="list-style-type: none"><li>• Proposed new search functionality for consumer electronics products to senior engineering leadership</li><li>• Developed methodology for running focus groups to collect user feedback on prototype</li><li>• Led 3-intern team that conducted an office-wide "open house" consisting of three such focus groups</li><li>• Presented and demonstrated final product at 250-employee, 3-office all-hands meeting, resulting in beta release of product and company-wide adoption of focus group methodology</li></ul>	<b>New York, NY</b> Summer 2010
	<b>Intuit</b> <i>Software Engineer Intern</i> <ul style="list-style-type: none"><li>• Conducted user research on client demand for additional features in QuickBase, Intuit's database product</li><li>• Identified and prototyped most-requested features based on results</li><li>• Presented findings to QuickBase senior leadership</li></ul>	<b>Waltham, MA</b> Summer 2009
	<b>Booz Allen Hamilton</b> <i>Analyst Intern</i> <ul style="list-style-type: none"><li>• Developed Excel/VBA applications:<ul style="list-style-type: none"><li>▪ utility to automate managerial reimbursement submission process</li><li>▪ managerial "dashboard" to track and analyze billable hours</li></ul></li><li>• Supported the Office of the Chief of Naval Operations on a six-person team developing a portfolio management tool to accurately and efficiently allocate annual funding to various Navy programs</li></ul>	<b>Rosslyn, VA</b> Summer 2008
<b>Extra-Curricular</b>	<b>Phi Kappa Theta Fraternity</b> <i>Alumni Relations Chair (2010)</i> <i>Recruitment Chair (2009)</i> <ul style="list-style-type: none"><li>• Responsible for scheduling and coordinating activities during week-long, Fall 2009 recruitment period and all pre-recruitment activities</li><li>• Led meetings, organized events, managed \$22,000 budget, and mobilized 50-member fraternity</li></ul> <i>Risk Management Chair (2008)</i> <ul style="list-style-type: none"><li>• MIT Interfraternity Council Best Risk Management Award, 2010 &amp; 2011</li></ul> <b>MIT Chess Club</b> <i>President and Chief Tournament Director (2009), Treasurer (2008)</i>  <b>MIT EECS Department</b> <i>Associate Advisor, Prof. Pete Szolovits (current), 6.01 Intro to EECS I T.A. (Spring 2011), Lab Assistant (2009)</i>  <b>MIT ACM/IEEE</b> <i>Vice President (2010), Social Chair (2009), Faculty Relations Chair (2008)</i>  <b>The Tech: MIT Student Newspaper</b> <i>Associate News Editor (2008), Staff Reporter (2007)</i>	
<b>Interests &amp; Hobbies</b>	Technology law & policy, Asian/Pacific Islander-American issues & advocacy, chess, poker, basketball, volleyball, software industry, Bay Area sports, <i>The West Wing</i>	