

# Mike Jin

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EDUCATION	<b>Harvard University</b> 08/2015 - Present <ul style="list-style-type: none"><li>Ph.D. student in Systems Biology</li></ul>
	<b>Yale University</b> 08/2009 - 05/2013 <ul style="list-style-type: none"><li>B.S. with Distinction in Both Majors<ul style="list-style-type: none"><li>Major 1: Computer Science and Mathematics<ul style="list-style-type: none"><li>Senior Project: <i>Fitting Graphs to Vector Data: A Modified Approach</i></li></ul></li><li>Major 2: Molecular Biophysics and Biochemistry<ul style="list-style-type: none"><li>Senior Essay: <i>Network-based Approaches for Human Disease Gene Prediction</i></li></ul></li></ul></li></ul>
FELLOWSHIPS & HONORS	<ul style="list-style-type: none"><li>Summa cum laude, Yale University 2013</li><li>Harvard-MIT HST Scholar in Bioinformatics &amp; Integrative Genomics 2012</li><li>Phi Beta Kappa 2012</li><li>Yale College Dean's Research Fellowship 2012, 2010</li><li>NYC Turing Fellowship Semifinalist 2012</li><li>Research Science Institute (RSI) Scholar 2008</li><li>Solutia Award for Excellence in Research 2007</li><li>USA Mathematical Olympiad Qualifier (USAMO) 2007</li></ul>
RECENT RESEARCH	<b>Department of Systems Biology, Harvard: Rotations</b> 2015-2016 Short projects studying yeast membrane protein segregation (Springer Lab), bacterial GWAS (Marks Lab), and nucleic-acid-based sensors (Yin Lab). <b>Department of Computer Science, Yale: Daniel Spielman</b> 2013 Implemented an algorithm to fit sparse graphs to vector data using convex optimization; investigated alternate implementations and objective functions <b>Gerstein Lab, Yale: Suganthi Balasubramanian</b> 2010-2013 Data mining of human genome variation data across human ethnic groups; developed a pipeline for annotation of human loss-of-function transcript variants (ALoFT) <b>Vidal Lab, Dana-Farber Cancer Institute: Thomas Rolland</b> 2012 Prediction and discovery of cancer genes using a biological network algorithm on a novel protein-protein interaction network
WORK EXPERIENCE	<b>Software Engineer, Microsoft</b> 2013-2015 <ul style="list-style-type: none"><li>I was the sole engineer who built the server side data access service for the Microsoft Dynamics AX database, intended to succeed existing data access services as the primary means for read/write operations.</li></ul> <b>Management Consulting Intern, A.T. Kearney</b> 2011 <ul style="list-style-type: none"><li>I designed a decision-making framework for IT help desk service consolidation for large-scale client based on industry best practices and primary research.</li><li>My framework was used to arrive at a design that met performance and cost imperatives.</li></ul> <b>Technology Intern, Walt Disney Imagineering</b> 2011 <ul style="list-style-type: none"><li>I built internal websites for multiuser dynamic content viewing and sharing</li><li>I collaborated with international contractors in writing primary web components and back end components for multiple applications</li></ul>

## PUBLICATIONS

- (2014) Thomas Rolland et al. (70 authors). “A Proteome-Scale Map of the Human Interactome Network.” *Cell* Nov. 2014; 159(5): 1212-1226.
- (2012) The 1000 Genomes Project Consortium (collaborator in Analysis Group among 692 contributors). “An integrated map of genetic variation from 1,092 human genomes.” *Nature* Nov. 2012; 491(4722): 56-65.
- (2012) Daniel MacArthur et al. (52 authors). “A systematic survey of loss-of-function variants in protein-coding genes.” *Science* Feb. 2012; 335(6070): 823-828.
- (2007) Ying Yan, Qing Tan, Yian Wang, Daolong Wang, **Mike Jin**, Terry Gordon, Ronald A. Lubet, and Ming You. “Enhanced lung tumor development in tobacco-smoke p53 transgenic and Kras2 heterozygous deficient mice.” *Inhalation Toxicology* 2007 Suppl. 1: 183-187.
- (2005) **Mike Jin** and Ming You. “Book Review.” Rev. of *Cancer Chemoprevention Vol. 2: Strategies for Cancer Chemoprevention*, ed. G.J. Kelloff, E.T. Hawk, and C.C. Sigman. *Oncology* Dec. 2005; 69(6): 470.

CONFERENCE  
PRESENTATIONS

- (2012) *Network Signatures of Cancer Genes in Human Protein Interactomes*. Mike Jin. Harvard-MIT Health Sciences and Technology Summer Institute for Bioinformatics and Integrative Genomics. Harvard Medical School: Boston, Massachusetts, USA.
- (2008) *Critical Genes in Colon Cancer Progression: Cathepsin-B as a Cancer Specific Marker*. Mike Jin. Research Science Institute. MIT: Cambridge, Massachusetts, USA.
- (2008) *D<sub>2</sub>O Substitution Experiments on Hydrated Iron and Magnesium Sulfates and its Application for Spectral Interpretation of Martian Sulfates*. Poster presentation by Mike Jin. 39th International Lunar and Planetary Science Conference. South Shore Conference Center: League City, Texas, USA.
- (2008) *Diffuse Reflectance Spectral Features of FeSO<sub>4</sub>·X<sub>2</sub>O Using D<sub>2</sub>O Substitution*. Mike Jin. 17th Annual Meeting of the NASA-Missouri Space Grant Consortium. Missouri University of Science and Technology: Rolla, Missouri, USA.
- (2007) *Temperature-Programmed Multi-Pulse Adsorption: Model and Application*. Mike Jin. STARS Summer Institute. University of Missouri-St. Louis: St. Louis, Missouri, USA.
- (2007) *Hydration States of Ferric Sulfates on Mars*. Mike Jin. 16th Annual Meeting of the NASA-Missouri Space Grant Consortium. Washington University: St. Louis, Missouri, USA.

TECHNICAL  
SKILLS

**Programming languages:** C#, X++, Python, Java, C++, C, PHP, JQuery, SQL

Familiar with advanced .NET and native code debugging, experienced with writing data services

## LANGUAGES

**Native:** English (St. Louis, USA)

**Heritage:** Mandarin (Fluent)

**Modern Languages:** French (Proficient): 7 years study