

# JONATHAN M. MONK

318 E 53<sup>rd</sup> St  
Apartment 2  
New York, NY 10022

jonathan.m.monk@gmail.com  
971-645-7785  
www.jon.pdxmonk.com

## Education

Princeton University, Bachelors of Science in Engineering, Chemical Engineering, June 2008  
Certificate in Engineering Biology, Certificate in Computer Science

## Research Experience

- *Volunteer Researcher, Genetics and Cell Biology, Mt. Sinai SOM* August 2008-Present  
Researching ES cell gene regulatory networks, cell fate determination and ES cell circuits in the Lemischka Lab.
- *Undergraduate Researcher, Synthetic Biology, Princeton University* August 2007-June 2008  
Thesis: "An RNAi-enhanced logic circuit for cancer specific detection and destruction", with Professor Ron Weiss.
- *Genetically Engineered Machines Team, Princeton University* June-August 2007  
Worked with a team of graduate and undergraduate students to design, build and implement a biological system to compete in the International Genetically Engineered Machines competition.

## Work Experience

- **AIChE, Society for Biological Engineering**, New York, NY July 2008-Present  
New Technology Associate, responsible for researching new initiatives and advances in Biological Engineering, communicating with members and writing grants to NIH for Web-lab initiative.
- **Princeton University Store**, Princeton, NJ Part-time Aug 2004-January 2008  
Database coordination and maintenance. Maintained a database of more than 85,000 members. Determined ways to streamline database, oversaw upsizing to Microsoft SQL Server
- **Intel Corp**, Hillsboro, OR Full-time, Summers 2003-2005  
Intel Honors Internship Program (iHIP) Technical Intern – LTD Design – HDP Thin Films Technician. TMG Finance - Created detailed commodity models to predict future spending of tools during factory ramp-up in 2006. DPG validation - Database Development and Design – Created and maintained a database to track instructors for Intel's Validation Training group.

## Skills

- Lab Techniques: Cell culture (bacterial and mammalian), cloning methodologies, lentivirus creation, quantitative analysis (qPCR, microarray, FACS)
- Programming: C, C#, C++, Matlab, SQL, XML, HTML, PERL, PHP, VB, Java, R. Competent with Linux and Windows
- Languages: English and Japanese

## Honors

Author, "Exploring New Paradigms for Bioprocessing" *Chemical Engineering Progress*, July 2009  
Speaker, AIChE Spring Meeting, "Establishing Biofuel Metrics", April 2009  
Royal Society of Chemistry commendation at the BioSysBio conference, London, April 2008  
Gold Medal, International Genetically Engineered Machines Competition, Boston, November 2007