

PROFILE

Ph.D candidate in biomedical informatics possessing a wide range of technical and creative skills with strong interests in open science, science communication, annotation and discovery.

EDUCATION

2004-2009 (expected) Ph.D. Biomedical Informatics, Stanford University

- National Library of Medicine Training Grant recipient (2004-2008)
- ISMB/ISCB student travel fellowship (2008)
- GPA: 3.8 (unofficial)
- Created a comprehensive publicly-available library of protein functional site models.
- Developing methods to prioritize and annotate clusters of proteins using automated literature-based techniques.

2000-2004 B.S. Computational Biology, Brown University

- Karen T. Romer Undergraduate Teaching and Research Award (2003)
- GPA: 3.7 (unofficial)
- Computationally identified a potential regulator of a gene involved in cancer.
- Helped to verify the relationship using advanced experimental assays.

EXPERIENCE

Jun-Aug 2004 The Venture Consortium, Web and print design intern

- Crafted a consistent and appealing brand identity through web and print materials.

Jul-Sep 2002 Princeton University, Research assistant

- Developed software for visualizing genetic motifs in yeast.

Jun-Aug 2001 XenoBiotic Laboratories Inc., Laboratory assistant

- Performed biological sample collection, purification, and data analysis for pre-clinical drug metabolism studies.

ACADEMIC ACTIVITIES

Feb 2008-Jan 2009 Co-chair, Open Science workshop

- Initiated and co-wrote a proposal for a session on Open Science to the 2009 Pacific Symposium on Biocomputing conference which was accepted for a workshop.
- Successfully secured a \$5K grant from Burroughs Wellcome Fund.

April 2008 Program committee member, Automated Function Prediction satellite meeting

- Evaluated submissions for talks and provided feedback for authors.

2006-2007 Student representative, Stanford Biomedical Informatics program

- Presented student concerns to executive committee, organized social activities, and participated in student admissions decisions.

SCHOLARLY PUBLICATIONS & INVITED TALKS

- Saunders N, Beltrão P, Jensen L, Jurczak D, Krause R, Kuhn M, Wu S. (2009) Microblogging the ISMB: A New Approach to Conference Reporting. *PLoS Comput Biol* 5 (1): e1000263. doi:10.1371/journal.pcbi.1000263
- Halperin I*, Glazer DS*, Wu S*, Altman RB. (2008) The FEATURE framework for protein function annotation: modeling new functions, improving performance, and extending to novel applications. *BMC Genomics*, 9(Suppl 2):S2. *Contributed equally.
- Wu S, Liang MP, Altman RB. (2008) The SeqFEATURE library of 3D functional site models: comparison to existing methods and applications to protein function annotation. *Genome Biology*, 9:R8.
- Wu S, Altman RB. "Automated function prediction: a comparison of SeqFEATURE to other methods and applications to structural genomics." (2007) Talk presented at the NLM Informatics Training Conference, Stanford University, CA.
- Guney I, Wu S, Sedivy JM. (2006) Reduced c-Myc signaling triggers telomere-independent senescence by regulating Bmi-1 and p16^{INK4a}. *PNAS*, 103(10):3645-3650.

SKILLS

- Proficient in Python; competent in shell scripting and HTML; familiar with C++, Java, CSS, PHP, MySQL, and R.
- Competent in Adobe Illustrator and Photoshop, PyMOL, VMD, Microsoft Office and Apple iWork applications
- Familiar with cell culture, gel electrophoresis, and ChIP assays
- Knowledgeable in machine learning, protein function annotation, and text mining.
- Moderately fluent in Mandarin Chinese, familiar with French and Japanese.

OTHER ACTIVITIES & ACHIEVEMENTS

Athletic

1999-present *Competitive Nationals-level Ultimate Frisbee player*

- Captained high school, college, and club teams.
- Placed 1st at the World Ultimate Frisbee Championships as part of the USA Junior Women's team in 2000.
- Placed 1st at the College Women's Championships in 2005.
- Placed 1st at the Club Championships in 2006, 5th in 2007, and 3rd in 2008.
- Volunteered as a coach teaching basic skills and teamwork to 6th-8th grade students at East Palo Alto Charter School from 2006-2007.

Artistic

- Created websites, logos, and other designs.
- Enjoy cooking, reading, and blogging about science.