

Education

- Ph.D., Computer Science, University of California at Berkeley. Aug 2004-present. Advised by Prof. Kimmen Sjölander and Prof. Michael Jordan.
- B.Tech., Computer Science and Engineering, Indian Institute of Technology, Madras. July 2000-May 2004.

Awards

- Outstanding Graduate Student Instructor award for the course BIOE-144 Introduction to Protein Informatics, Fall 2006.
- The **Berkeley fellowship** (3 years) awarded to one student in the Computer Science program each year.
- **Bharat Ratna M. Visvesvaraya medal** for the highest CGPA in the graduating class.

Research Interests

Computational Biology, Population genetics, Probabilistic Graphical Models

Research Projects

I am interested in understanding genetic variation at the population level and the molecular level using probabilistic models. At the population level, I have developed efficient and accurate algorithms for inferring local ancestries in admixed populations *e.g.*, African-Americans. At the molecular level, I have developed statistical models for predicting active site residues in enzymes and functional residues in proteins.

Publications

Journals

1. Sriram Sankararaman, Guillaume Obozinski, Michael I. Jordan, Eran Halperin, Genomic Privacy and Limits of Individual Detection in a Pool, *Nature Genetics*, 2009.
2. Sriram Sankararaman, Fei Sha, Michael I. Jordan, Kimmen Sjölander, Functional Residue Prediction using Evolutionary and Structural Information, *in preparation*.
3. Bogdan Pasaniuc, Sriram Sankaraman, Gad Kimmel, Eran Halperin, Locus-specific Ancestry Inference in Closely-related populations, *Bioinformatics*, 25: i213-i221 (2009).
4. Sriram Sankararaman, Bryan Kolaczkowski, Kimmen Sjölander, INTREPID: a web server for prediction of functionally important residues by evolutionary analysis, *Nucleic Acids Research*, (2009).
5. Sriram Sankararaman, Gad Kimmel, Eran Halperin, Michael I. Jordan, On the inference of ancestries in admixed populations, *Genome Research* :668–675 (2008).

6. Sriram Sankararaman, Srinath Sridhar, Gad Kimmel, Eran Halperin, Estimating local ancestry in admixed populations, *American Journal of Human Genetics* 8:290–303 (2008).
7. Sriram Sankararaman, Kimmen Sjölander, INTREPID–INformation-theoretic TREE traversal for Protein functional site IDentification. *Bioinformatics* 24:2445–2452 (2008).
8. Chris Skibola *et al*, Polymorphisms in the Estrogen Receptor 1 and Vitamin C and Matrix Metalloproteinase Gene Families Are Associated with Susceptibility to Lymphoma, *PLoS ONE* 3(7).

Conferences

1. Bogdan Pasaniuc, Sriram Sankaraman, Gad Kimmel, Eran Halperin, Locus-specific Ancestry Inference in Closely-related populations, Intelligent Systems in Molecular Biology (ISMB), 2009.
2. Sriram Sankararaman, Gad Kimmel, Eran Halperin, Michael I. Jordan, On the inference of ancestries in admixed populations, in Proceedings of the 12th Annual International Conference on Research in Computational Molecular Biology (RECOMB), 2008.

Invited Talks

- Ron Davis lab seminar, Stanford, Sept 2009

Teaching Experience

- Guest lecturer: Practical Machine Learning, Fall 2009
- Teaching Assistant: Bayesian Inference and Modelling, Spring 2009.
- Guest lecturer: Practical Machine Learning, Spring 2008
- Guest lecturer: Genomics and Computational Biology, Fall 2007
- Guest lecturer: Introduction to Protein Informatics, Fall 2007
- Teaching Assistant: Introduction to Protein Informatics, Fall 2006.

Programming Skills

C, C++, Java, Perl, Python, Matlab