

Curriculum Vitae

Personal Data

Misha Rajaram
Bioinformatics and Computational Biology Program,
Department of Statistics,
Iowa State University,
Ames, IA 50011
Email:

Education

2005-present Ph. D., Bioinformatics and Computational Biology,
Iowa State University
2006-present M.S., Statistics, Iowa State University
2005 M.Sc., Bioinformatics, Stella Maris College,
University of Madras, India
2003 B.Sc., Zoology (Hons.), Stella Maris College,
University of Madras, India

Employment

4/2006-present Research Assistant with Dr. Karin Dorman,
Departments of Statistics and Genetics,
Developmental and Cell Biology, Iowa State
University
8/2005-3/2006 Research Assistant, Bioinformatics and
Computational Biology Program,
Iowa State University
9/2004-1/2005 Teaching Assistant, Department of Bioinformatics,
Stella Maris College, University of Madras
6/2004-9/2005 Teaching Assistant, Department of Bioinformatics,
Stella Maris College, University of Madras
9/2002-3/2003 Teaching Assistant, Department of Zoology,
Stella Maris College, University of Madras

Internships

1/2005-3/2005 Biochemistry, Biophysics and Bioinformatics Unit,
National Centre for Biological Sciences, Bangalore,
India
Advisor: Dr. R. Sowdhamini
Project title: Sequence analysis of putative gene
products containing the Lipocalin fold.
4/2004-8/2004 Summer Research Fellow, Evolutionary and
Organismal Biology Unit,
Jawaharlal Nehru Centre for Advanced Scientific
Research, India
Advisor: Dr. Amitabh Joshi

Project title: Study of life history evolution in laboratory maintained populations of *Drosophila melanogaster* selected for simultaneous elongated life span and faster development.

9/2002-3/2003 Student Researcher, Prenatal Clinic and Obstetrical Care Unit, Ambal Hospitals, Chennai, India
Advisor: Dr. Sujatha Jagadeesan
Project title: Genetic Analysis of congenital cleft lip and palate in the South Indian population

Refereed Publications

1. K. A. Ahmed, V. K. Saxena, M. Saxena, A. Ara, A. B. Pramod, **M. L. Rajaram**, K. S. Dorman, S. Majumdar, T. J. Rasool. (2006) Molecular cloning and sequencing of MHC class II beta 1 domain of turkey reveals high sequence identity with chicken. International Journal of Immunogenetics. 2007 Apr; 34(2):97-105.

Proceedings

1. **M. L. Rajaram**, V. N. Minin, M. A. Suchard, K. S. Dorman, Hot and Cold: Spatial Fluctuation in HIV-1 Recombination Rates, IEEE- BIBE 2007

Conference Presentations

2. **M. L. Rajaram**, S. Carpenter , M. Suchard, K. S. Dorman, Survey of Recombination in the HIV genome to identify hotspots and associations with sequence patterns, 14th HIV Dynamics and Evolution Workshop, Segovia, Spain (April 2007)
1. **M. L. Rajaram** and K.S. Dorman, Survey of recombination in the HIV genome, 4th Biennial All-Iowa Virology Symposium, Iowa City, Iowa (October 2006)

Co-Authored Conference Presentations

2. K. S. Dorman, **M. L. Rajaram**, M. A. Suchard, V. N. Minin, Survey of Recombination in the HIV genome : Hot spots and Cold Spots, Joint Statistical Meeting, 2007
1. S-H. Cha, K. S. Dorman, **M. L. Rajaram**, W-I Kim, K-J Yoon, Occurrence and frequency of recombination in structural protein genes of PRRS virus type II, American Society for Virology Annual Conference, Oregon (July 2007)

Poster Presentations

3. **M. L. Rajaram**, V. N. Minin, M. A. Suchard, K. S. Dorman, Spatial Fluctuation of Recombination Rates in the HIV genome: A Computational Model identifies hotspots, RECOMB-Comparative Genomics Workshop, San Diego (September 2007)
2. K.S.Dorman, **M.L. Rajaram**, V.N.Minin, M.A. Suchard , Survey of Recombination in the HIV genome to identify hotspots, Retrovirus meeting, Cold Spring Harbor Laboratories, May 2007
1. Y. Sucaet, M. Moscou, **M. L. Rajaram**, X. Yang, BCBLab: An interaction model for cross-departmental bioinformatics knowledge integration, New Mexico Bioinformatics Symposium, Sante Fe, New Mexico (March 2007)

Co-Curricular Activities

Founder Member BCBLab, a consultancy endeavor by Graduate Students of the BCB Program at ISU.

Awards

- Summer Research Fellowship, JNCASR, India 2005
- Best Outgoing Student Award, Department of Bioinformatics, Stella Maris College 2005
- Departmental Gold Medal, Department of Bioinformatics, Stella Maris College, 2005
- Academic Proficiency Award, Department of Bioinformatics, Stella Maris College, 2004 and 2005
- Departmental Silver Medal, Department of Zoology, Stella Maris College, 2003
- Academic Proficiency Award, Department of Zoology, Stella Maris College, 2001,2002 and 2003

Extra Curricular Achievements/ Interests

- New Students' Co-ordinator, Indian Students' Association, Iowa State University
- Project Co-ordinator, Sankalp, Iowa State University
- B-Grade Artist in Classical Carnatic Music (Vocal) , All India Radio, Chennai
- Govt. of India, Department of Culture Scholar in classical performing arts, 2001-2003
- Govt. of India, Center for Cultural Research and Training youth scholar in classical performing arts, 1992-2000

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