Curriculum Vitae

MILER T. LEE

Kim Lab, 103i Lynch Labs
433 S. University Ave.
Philadelphia, PA 19104
215.694.5801
miler@mail.med.upenn.edu
http://kim.bio.upenn.edu/~miler/

EDUCATION

B.S. Symbolic Systems, Stanford University, Stanford CA, 6/2000

M.S. Computer Science, Stanford University, Stanford CA, 6/2002

Ph.D. Genomics and Computational Biology, University of Pennsylvania School of Medicine, Philadelphia PA, 10/2009

ACADEMIC AWARDS

Bing Summer Research Fellowship in Ecology, 1998

U.S. Department of Energy Computational Sciences Graduate Fellowship, 2005-2009

RESEARCH EXPERIENCE

Stanford University, Department of Biological Sciences, Stanford CA
Research Assistant with Professor Deborah Gordon, 1998-1999

Stanford University, Department of Computer Science, Stanford CA
Research Assistant with Professor Christopher Manning, 2001-2002

University of Pennsylvania School of Medicine, Biomedical Graduate Studies, Philadelphia PA
Doctoral Student with Professor Junhyong Kim in collaboration with Professor James Eberwine, 2003-2009

Sandia National Laboratories, Computational Biology Department, Albuquerque NM
Research Intern with Dr. Elebeoba May, 2007

TEACHING EXPERIENCE

Stanford University, Department of Computer Science, Stanford CA
Teaching Assistant
CS 107: Programming Paradigms, Fall 2000
CS 121: Intro to Artificial Intelligence, Winter 2001
CS 193I: Internet Technologies, Spring 2001
CS 121: Introduction to Artificial Intelligence, Summer 2001
CS 105: Introduction to Computers, Fall 2001
CS 121: Introduction to Artificial Intelligence, Winter 2002

The College Preparatory School, Oakland CA
Intraterm seminar teacher: Artificial Intelligence, Spring 2003 (one-week)

University of Pennsylvania, Department of Computer and Information Sciences, Philadelphia PA
Teaching Assistant
CIS 535: Introduction to Bioinformatics, Fall 2004

Guest Lecturer
CIS 535: Introduction to Bioinformatics, Fall 2005

INDUSTRY EXPERIENCE

Kana Communications, Redwood City CA
Engineering Summer Intern, 2000

PUBLICATIONS

Lee MT and Kim J. 2008. Self containment, a property of modular RNA structures, distinguishes microRNAs. PLoS Comput. Biol. 4(8).

Sul JY, Wu CW, Zeng F, Jochems J, **Lee MT**, Kim TK, Peritz T, Buckley P, Cappelleri DJ, Maronski M, Kim M, Kumar V, Meaney D, Kim J, Eberwine J. 2009. Transcriptome transfer produces a predictable cellular phenotype. Proc Natl Acad Sci U S A 106(18).

May E, **Lee MT**, Dolan P, Crozier P, Brozik S, Manginell M. 2009. Computational sensing and in vitro classification of GMOs and biomolecular events. Proc. of the 26th Army Science Conference, forthcoming.

Buckley PT*, **Lee MT***, Sul JY, Miyashiro KY, Bell TJ, Fisher SA, Kim J, Eberwine J. 2009. Retention of specific intronic sequences is a common feature of mRNA targeted to neuronal dendrites. Submitted
(*joint first authors)

CONFERENCE TALKS

Sandia National Laboratories SIP Symposium, Albuquerque NM, 2007
"Designing DNA biosensors for the detection of genetic variation"

U.S. DOE CSGF Fellows' Conference, Washington D.C., 2009
"Modular organization and composition of RNA"

UNIVERSITY OF PENNSYLVANIA ACTIVITIES

Genomics and Computational Biology Graduate Group, Curriculum and Advising Committee, 2004-2008

Genomics and Computational Biology Graduate Group, Admissions Committee, 2005

Biomedical Graduate Student Association, Vice-Chair Academic, 2006-2007

Penn Biotech Group, consultant and project manager, 2006-2007

Graduate Student Activities Council, 2007

Graduate/Undergraduate Mentoring Program, 2007

Penn Biotech Group, Co-Vice President, Careers Department, 2007-2008

Dean's Award selection committee, 2009

PROFESSIONAL ASSOCIATIONS

International Society for Computational Biology, 2008-present

MISCELLANEOUS

Computer skills: Python, Java, C, C++, C#, Perl, Fortran, R, Matlab, SQL

REFERENCES

Available on request.