

Talks and Poster Presentations

Malikic S., McPherson A., Donmez N., Sahinalp C. S. "Clonality inference in multiple tumor samples using phylogeny"; (conference talk) Late Breaking Research - ISMB, Boston, MA, USA, 2014.

Donmez N., Brudno M. "Hapsembler: An assembler for highly polymorphic genomes"; (conference talk) RECOMB, Vancouver, BC, Canada, 2011.

Donmez N., Brudno M. "Genome assembly with Sanger and High Throughput Sequencing"; (poster) HiTSeq - ISMB, Boston, MA, USA, 2010.

Donmez N., Brudno M. "Haplotype-sensitive assembly using paired-end reads"; (poster) Genome Informatics, Cold Spring Harbor, NY, USA, 2008.

Academic Service

Program committee member:

RECOMB satellite workshop on massively parallel sequencing (RECOMB-seq) 2012

Peer review for journals:

Bioinformatics, Genome Biology, Genome Research, PLOS ONE, Algorithms for Molecular Biology (AMB)

Peer review for conferences:

International Conference on Intelligent Systems for Molecular Biology (ISMB), International Conference of Research in Computational Biology (RECOMB), Workshop on Algorithms in Bioinformatics (WABI), Pacific Symposium on Biocomputing (PSB), Asia Pacific Bioinformatics Conference (APBC)

Experience

Post-Doctoral Fellow, Vancouver Prostate Centre, Vancouver, BC, Canada

November 2012 - present

- Development and implementation of algorithms for detection of alternative splicing using RNA-Seq data from cancer and healthy tissues.
- Responsible for the processing and clinical analysis of RNA-Seq data from several large scale internal and collaborative cancer sequencing studies (CPC-GENE, West Coast Dream Team).
- Supervision of graduate students for a cancer heterogeneity pilot project (as a participating member of the PANCANCER working group of ICGC) in collaboration with Dr. Cenk Sahinalp.

Teaching and Research Assistant, University of Toronto, Toronto, ON, Canada

2006 - 2012

- Development, implementation and assessment of a genome assembly toolkit for highly polymorphic organisms using next-generation sequencing technologies, supervised by Dr. Michael Brudno.
- CSC263: Data Structures and Analysis (4 terms) – teaching assistant
- CSC148: Introduction to Computer Science (3 terms) – teaching assistant

Graduation Project, Sabanci University, Istanbul, Turkey

October 2005 - July 2006

- Design and implementation of the speech recognition module of interactive entertainment and education software for toddlers, supervised by Dr. Berrin Yanikoglu, Dr. Selim Balcişoy and Dr. Hakan Erdogan.

Internship, Carnegie Mellon University, Pittsburgh, PA, USA

July - August 2005

- Research assistant for a project on probabilistic evolutionary models of cis-regulatory modules in *Drosophila*, supervised by Dr. Eric Xing.

Independent Research, Sabanci University, Istanbul, Turkey

Fall 2004

- Motif based classification of G-Protein Coupled Receptors using decision trees, supervised by Dr. Ugur Sezerman.

Project, Sabanci University, Istanbul, Turkey

Summer 2004

- Participated in CASP6 (the 6th Community Wide Experiment on the Critical Assessment of Techniques for Protein Structure Prediction) as a team (SUPred), supervised by Dr. Ugur Sezerman.

Awards & Scholarships

2012 - 2014

- Ebco/Epic Visiting Chairs, Simon Fraser University, Vancouver, BC, Canada

2002 - 2006

- Certificate of High Honor, Sabanci University, Istanbul, Turkey

Coursework & Programming

Undergraduate Level

Introduction to Bioinformatics

Computational Biology

Organic Chemistry

Artificial Intelligence

Statistical Modeling

Graduate Level

Algorithms in Genomic Sequence Analysis

Topics in Computational Molecular Biology

Introduction to Machine Learning

Numerical Methods in Optimization Problems

Constraint Satisfaction Problems

Algorithms in Graph Theory

Programming

C/C++, Perl, Java, Python, Matlab, R, Shell scripting, Awk

References

Available upon request.