

Nir Yosef

Address 87 Glover Av.
Quincy MA
USA
02171
Home Page <http://www.cs.tau.ac.il/~niryosef/>
E-mail niryosef@post.tau.ac.il

ACADEMIC EXPERIENCE:

Education

- Present** **Psotdoc at the Broad institute.**
Advisor: **Prof. Aviv Regev**
- 4/2005** – **Ph.D. (direct track) Computer science - Tel-Aviv University**
9/2009 Advisors: **Prof. Eytan Ruppin** and **Prof. Roded Sharan**
- Thesis:** Network models of cellular response to perturbation.
- 9/2006 - 8/2007** **Visiting scientist – University of Washington, dept. of genome sciences**
Advisor: **Prof. William S. Noble**
- 10/2003-** **M.Sc. Computer science - Tel-Aviv University.**
4/2005 *GPA: 96.7. After completing course work admitted to a direct Ph.D. track.*
- 1999 – 2002** **B.Sc. Cum Laude Computer science – Ben-Gurion University.**
GPA: 90.83

Honors & Awards

- 2009** The Celia and Marcos Maus Annual Prize in Computer Science for Ph.D students
- 2005-** Rector and president scholarship for outstanding PhD students, Tel Aviv University
present
- 2005** The Celia and Marcos Maus Annual Prize in Computer Science for M.Sc students
- 2004** Rector's scholarship, Tel-Aviv University
- 2002** Dean excellence, Faculty of Natural Sciences , Beer Sheva University
- 2002** Intel Scholarship for excellent M.Sc students
- 2001, 2002** Excellence awards, Faculty of Natural Sciences, Beer Sheva University
- 2001, 2002** Honor students program, Beer Sheva University
- 1999** Scholarship for high entrance grades, Beer Sheva University

Publications

- **Inferring Functional Pathways from Multi-Perturbation Data**/ N. Yosef, A. Kaufman and E. Ruppín
Bioinformatics (ISMB 2006 special issue), 22(14), e539-e546, 2006.
- **A Supervised Approach for Identifying Discriminating Genotype Patterns and its Application to Breast Cancer Data**/ N.Yosef, Z.Yakhini, A.Tsalenko, E.Ruppín and R.Sharan, *Bioinformatics* 23 (ECCB 2006), pp. e91-e98, 2007
- **Medical sequencing at the extremes of human body mass** (with N. Ahituv et al.)
American Journal of Human Genetics 80, pp. 779-791, 2007
- **Cross-species Analysis of Protein-protein Interaction Networks**/ N.Yosef, E. Ruppín and R. Sharan.
In Protein-protein interactions and networks: identification analysis and prediction, Panchenko & Przytycka (ed) pp 163-186. Springer, 2008.
- **Improved Network-based Identification of Protein Orthologs**/ N.Yosef, R. Sharan and W. S. Noble.
Bioinformatics 24 (ECCB 2008), pp i200-6, 2008
- **From sequence to structure to networks (ECCB 2008 meeting report)**/ N. Yosef, L. Käll. *Genome Biology*, 9(11):3022-7, 2008
- **ZNF350 – A potential new target in cancer biology**/ L. Levkovitz*, N. Yosef*, M. Lupu-Meiri, M.C. Gershengorn, E. Ruppín, R. Sharan, and Y.Oron . *In proceedings of the 1st world cancer congress, 2009.*
- **Toward Accurate Reconstruction of Functional Protein Networks** / N.Yosef*, L. ungar*, E. Zalckvar, A.Kimchi, M.Kupeic, E. Ruppín and R. Sharan. *The 4th Annual RECOMB Satellite on Systems Biology, 2008; Journal: Mol Syst Biol, 2008;5;248.*
- **A Complex-Centric View of Protein Network Evolution**/ N.Yosef, M.Kupeic, E. Ruppín and R. Sharan.
Nucleic Acids Res., doi:10.1093/nar/gkp414 2009.
- **A genome-wide screen for essential yeast genes that affect telomere length maintenance**/ L. Ungar*, N.Yosef*, Y. Sela, R. Sharan, E. Ruppín, M. Kupiec. *Nucleic Acids Res.*, doi:10.1093/nar/gkp259, 2009.
- **Metabolic environmental modeling predicts ecological strategies for bacterial growth**/ S. Freilich, A. Kreimer, E. Borenstein, N.Yosef, R. Sharan, U. Gophna, E. Ruppín. *Genome Biology* , doi:10.1186/gb-2009-10-6-r61, 2009
- **Prediction of Phenotype Information from Genotype Data**/ N.Yosef, J. Gramm, Q. Wang, W.S. Noble, R. Karp, and R. Sharan. *Communications in Information and Systems, 2009 (in press)*
- **Network-free Inference of Knockout Effects in Yeast** / T. Peleg*, N. Yosef*, E. Ruppín, and R. Sharan
The 5th Annual RECOMB Satellite on Systems Biology, 2009; Journal: PLoS Computational Biology, 6(1): e1000635, 2010

- **A Systems Level Strategy for Analyzing the Structure/function Organization of the Cell Death Network/** E. Zalckvar, N. Yosef, S. Reef, R. Sharan, E. Ruppín, and A. Kimchi, *Cell Death and Differentiation*, 2010 (in press)
- **A novel HMM-based method for detecting enriched transcription factor binding sites reveals RUNX3 as a potential target in pancreatic cancer biology/** L. Levkovitz, N. Yosef, M.C. Gershengorn, E. Ruppín, R. Sharan and Y. Oron (submitted)
- **Unraveling Transcription Regulation by CHIP/LDB Transcription Complexes/** R. Bronstein, L. Levkovitz, N. Yosef, E. Ruppín, R. Sharan, He. Westphal, B. Oliver, D. Segal (submitted)
- **ANAT – A Software Tool for Reconstructing and Analyzing Functional Networks of Proteins/** N. Yosef, E. Zalckvar, AD. Rubinstein, M. Homilius, L. Vardi, H. Zur, A. Kimchi, E. Ruppín, and R. Sharan (submitted)

[*equal authorship]

Posters and presentations

- **Obtaining a Functional Pathway Description from Multi-Knockout Data/** N. Yosef, A. Kaufman and E. Ruppín, *BioPathways Meeting at ISMB 2005*.
- **From Perturbation Data to a Causal Functional Pathway Representation/** N. Yosef, A. Kaufman and E. Ruppín, *NIPS 2006 Workshop on Causality and Feature Selection*.
- **Network Based Analysis of Protein Complex Evolution/** N.Yosef, M.Kupeic, E. Ruppín and R. Sharan, *Functional Genomics & Systems Biology meeting (2007), Cold Spring Harbor, Hinxton, UK and Ilanit/FISEB 2008 Eilat, Israel*.
- **Improved Network-based Identification of Protein Orthologs/** N.Yosef, R. Sharan and W. S. Noble/ *Bertinoro workshop on the Modeling, Analysis, and Integration of Biological Networks, 2008; ECCB 2008*
- **Toward Accurate Reconstruction of Functional Protein Networks /** N.Yosef, L. ungar, E. Zalckvar, A.Kimchi, M.Kupeic, E. Ruppín and R. Sharan/ *the 4th Annual RECOMB Satellite on Systems Biology*
- **Analysis of the Proteome and miRNA Profiling of Cancer Cells with Shortened Telomeres /** O. Uziel, N. Yosef, E. Ruppín, R. Sharan, and M.Lahav. *Israeli Society for Cancer Research Inaugural Meeting, 2009, Tel Aviv University, Israel; AACR Annual Meeting, Denver, CO, USA, 2009*
- **ANAT – a new tool for reconstructing functional networks of proteins and genes/** N.Yosef, E. Zalckvar, GY. Stein, M. Homilius, L. Vardi, H. Zur, A. Kimchi, I. Tsarfaty, E. Ruppín, and R. Sharan. *Tel Aviv University Cancer biology research center meeting, 2009*.
- **Met Signatures Derived from Cell and Animal Models Predict Breast Cancer Prognosis and Response to Therapy/** GY. Stein, H. Reichman, E. Solomon, A. Berens, J. Resau, N. Yosef, R. Sharan, E. Ruppín and I. Tsarfaty. *Tel Aviv University Cancer biology research center meeting, 2009*.
- **An Efficient Approach for Inferring Knockout Effects on a Global Scale/** T. Peleg*, N. Yosef*, E. Ruppín, and R. Sharan / *the 5th Annual RECOMB Satellite on Systems Biology, 2009*

Teaching Experience

Fall 2005	Teaching Assistant: Introduction to Neural Networks
Fall 2007	Teaching Assistant: Computational systems biology
Spring 2008	Teaching Assistant: Extended introduction to computer science
Fall 2008	Teaching Assistant: Extended introduction to computer science
Spring 2009	Teaching Assistant: Analysis of biological networks

PROFESSIONAL EXPERIENCE:

2000 – 2005	Intel- developing information systems for production floor management and long term strategic planning
2005	Finjan software, malicious code research center - Internet security researcher

COMMUNITY SERVICE:

2003 – 2005	I volunteered at ENOSH (an organization for mentally ill people living in the community). My duties over two years included talking with the patients, and teaching basic life skills in the day program.
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