Elena Nabieva

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EDUCATION

Princeton University, Princeton, NJ
Ph.D. Computer Science, 2007. Advisor: Mona Singh
Thesis: *Topology and Function in Protein Interaction Networks*

Stanford University, Stanford, CA
M.S. Computer Science, 2002
B.S. Symbolic Systems, 2001

TEACHING

Instructor, Joint HSE/NES BA program
· Introduction to Computer Science (Fall 2012)

Assistant in Instruction, Princeton University
· Introduction to Computer Science, Integrated Science section (Fall 2004)

Teaching Assistant, Stanford University
· Cryptography and Computer Security (Winter 2001, Winter 2002)
· Introduction to Automata and Complexity Theory (Spring 2001, Spring 2002)
· First-Order Logic (Winter 2000)

RESEARCH

Laboratory for Evolutionary Genomics, Moscow State University, Russia
Bioinformatician (2011-)
PI: Alexey Kondrashov (University of Michigan)

Whitehead Institute for Biomedical Research, Cambridge, MA
Postdoctoral Fellow (2008–2011)
PI: Susan Lindquist. Co-advised by Prof. Ernest Fraenkel, MIT Bioengineering

Princeton University, Princeton, NJ
Postdoctoral Research Associate, Lewis-Sigler Institute for Integrative Genomics
(2007–2008)
Graduate Research Assistant, Computer Science Department (2002–2007)
Advisor: Mona Singh

Stanford University
Research Assistant, Department of Hematology (2002)
Advisor: Peter Lee
Research Intern, Department of Computer Science (2001)
Advisor: Daphne Koller

AWARDS

Postdoctoral Fellowship, American Cancer Society

Best Student Paper, ISMB 2005

Fellow, Program in Integrative Information, Computer and Application Sciences
(PICASso), Princeton University

PUBLICATIONS

Elena Nabieva and Mona Singh. "Protein function prediction via analysis of interactomes." In: *Prediction of protein structures, functions and interactions*, Janusz Bujnicki (Editor), Wiley and Sons, 2008.

Eric Banks, Elena Nabieva, Ryan Peterson, and Mona Singh. "NetGrep: Fast network schema searches in interactomes." *Genome Biology* 2008, 9:R138. **Highly accessed manuscript.**

Eric Banks*, Elena Nabieva*, Bernard Chazelle, and Mona Singh. "Organization of physical interactomes as uncovered by network schemas." *PLoS Computational Biology*, 2008. 4(10): p. e1000203.
*Authors contributed equally.

Elena Nabieva, Kam Jim, Amit Agarwal, Bernard Chazelle, and Mona Singh. "Whole-proteome prediction of protein function via graph-theoretic analysis of interaction maps." *Bioinformatics*, 21:i302-i310. **Best Student Paper, ISMB 2005**

PROFESSIONAL
ACTIVITIES

TALKS

Analyzing protein interaction networks via pathway schemas

· Interactome Networks 2006, Hinxton, UK
· Moscow Seminar on Computational Biology, 2006
· NCBI Computational Biology Branch seminar, 2007
· Moscow Conference on Computational Molecular Biology (MCCMB) 2009

Whole-proteome prediction of protein function via graph-theoretic analysis of interaction maps

· Intelligent Systems for Molecular Biology (ISMB) 2005, Detroit, MI
· MCCMB 2005, Moscow, Russia
· PICASso seminar, Princeton University, 2005

REVIEWING

Reviewer for *PLoS Computational Biology, Bioinformatics, BMC Research Notes, IEEE/ACM Transactions on Computational Biology, Bioinformatics*, ISMB 2008