

ILARIA MOGNO

Department of Biomedical Engineering • Boston University • Boston, MA 02215 • 617-358-4187
mogno@bu.edu • <http://www.ilariamogno.com>

EDUCATION:

Research Scientist, 2004 – 2006

Boston University, Department of Biomedical Engineering, Center for Advanced Biotechnology

Ph.D. in System Engineering, Università di Roma La Sapienza, Dipartimento di Informatica e Sistemistica (DIS), Nov. 2002 – Nov. 2006

Ph.D. Thesis: Modeling and Identification of Gene Regulatory Networks

Master (Hons) in Computer Science Engineering, Università di Roma La Sapienza, Laurea (M.Sc.) in Ingegneria Informatica, *summa cum laude*, Sept. 1996 - Jul. 2002

Masters thesis: Using SIP Protocol for Terminal and Application Mobility

RESEARCH EXPERIENCE / POSITIONS HELD:

Boston University, Gardner lab - *Research Scientist, Postdoctoral Research Associate*, Jan. 2004 - Present

Research on gene network identification and expression dynamics with focus on transcription factor – promoter interactions and identification of logic gates in *E. coli*.

Università di Roma La Sapienza - *Graduate Student*, Nov. 2002 – Nov. 2006

Research on gene expression dynamics and on gene network reconstruction algorithms for large-scale perturbation data.

CoRiTeL (Consorzio di Ricerca nelle Telecomunicazioni, Research in Telecommunication Consortium), partner of ERICSSON - *Masters Student*, Jan. 2002 - Jul. 2002

Research on computer networks and application level protocols. Development of a SIP (Signaling Internet Protocol) client and server and addition of a study of Application and Terminal Mobility for the SIP protocol.

PUBLICATIONS:

- Mogno I.: A Reconstruction Algorithm for Gene Regulatory Sparse Networks using Positive Systems, Proceedings of POSTA2003, Roma, Italy, August 28-30, 2003
- Faith JJ, Hayete B, Thaden JJ, Mogno I, Wierzbowski J, Cottarel G, Kasif S, Collins JJ, Gardner TS: Large-Scale Mapping and Validation of Escherichia coli Transcriptional Regulation from a Compendium of Expression Profiles, PLoS Biology, 2007, 5(1)

POSTERS / TALKS:

- Mogno I.: A Reconstruction Algorithm for Gene Regulatory Sparse Networks using Positive Systems, Proceedings of POSTA2003, Roma, Italy, August 28-30, 2003
- Mogno I, Farina L, Gardner T: A Fast Reconstruction Algorithm for Gene Networks, ISMB/ECCB 2004, Glasgow, Scotland, July 31st – August 5th 2004. Poster
- Faith J, Hayete B, Mogno I, Thaden J, Wierzbowski J, Cottarel G, Kasif S, Collins J, Gardner T: Genome-Scale Identification of Escherichia coli regulatory network, ICSB 2005, Boston USA. Poster
- GFP as a Reporter for Gene Expression: Physiology Dept. University of Rome, La Sapienza, April 2007, *Invited Talk*.

- Modeling and Identification of Gene Regulatory Networks: Computer and Systems Dept. University of Pavia, April 2007, *Invited Talk*

HONORS AND AWARDS:

- Masters Graduation *summa cum laude* in Ingegneria Informatica (Computer Science and Engineering), Università di Roma La Sapienza, July 2002
- Università di Roma La Sapienza, Dipartimento di Informatica e Sistemistica (DIS), Research Assistant Fellowships from Nov 2002 to Nov 2005, 30,000 Euro
- ISMB/ECCB 2004 Participation Fellowship, 500 Euro
- Ad hoc reviewer for: *American Control Conference, Journals for the American Physical Society*

COMMUNITY OUTREACH:

- ENGINEERS WITHOUT BORDERS BOSTON: Engineering Education Outreach program at Hurley Elementary School, Boston. Designed and performed hands-on experiments for elementary school kids to show how engineering is fun and accessible.
- BOSTON UNIVERSITY JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM 2007: high school science fair judge

SKILLS:

MANAGEMENT: University Relations Coordinator of the 10th European Career Fair in Boston 2006.

COMPUTER SKILLS:

Programming Languages: Matlab, C/C++, Java, MySQL, HTML, php, prolog, pascal, CORBA

Basic knowledge of Linux, Windows, Mac OS X

Good Knowledge of networking

EXPERIMENTAL SKILLS: Proficient in Molecular Biology cloning protocols, basic laboratory skills (DNA / RNA isolation and quantification, PCR / RT-PCR / Real Time Quantitative PCR, cloning, fluorescence quantification, etc...)

LANGUAGES: Italian (first language), English (fluent), French (upper intermediate level), Brazilian Portuguese (beginner level)

INTERESTS:

I enjoy reading, traveling and the outdoors. I also spend some of my free time volunteering in my community.