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- EDUCATION**
- ◇ **Princeton University**, Princeton, NJ.
Postdoctoral Research Fellow, Lewis-Sigler Institute, 2009
Ph.D. in Electrical Engineering, July 2008.
M.A. in Electrical Engineering, May 2005.
PEI-STEP Certificate in Environmental and Public Policy, May 2009.
 - ◇ **Columbia University**, New York, NY.
M.Sc. in Electrical Engineering, February 2003.
Double Concentration: Microelectronics & Wireless Networks.
GPA:4.0/4.0.
 - ◇ **University of Patras**, Patras, Greece.
Diploma in Electrical and Computer Engineering(Top 1%), June 2001.
- WORK EXPERIENCE**
- ◇ **Assistant Professor** University of California, Davis (2009 - now)
Joint Appointment, Department of Computer Science and Genome Center.
 - ◇ **Relationship Manager**, DIT - Sales & Research Analytics, Credit Suisse (2008 - 2009)
Acted as a liaison between modeling, programming and business teams. Supervised the development of quantitative financial models and solutions within the investment bank. Member of the 2008 Quantitative Associate class and the LOCuS team.
 - ◇ **Research Assistant**, Lewis-Sigler Institute for Integrative Genomics (2003 - 2008)
Worked on various projects on synthetic biology, bioinformatics and computational biology. Developed biologically realistic stochastic models of fundamental cell functions. Created a virtual ecology simulator in which artificial organisms evolve and compete in fluctuating environments.
 - ◇ **Research Assistant**, Columbia Integrated Systems Laboratory(CISL). (2001 - 2003)
Designed and fabricated a mixed signal VLSI chip with the ability to simulate Gene Regulatory Networks. The final product was a $2 \cdot 10^5$ transistor integrated circuit, fabricated in August 2003.
 - ◇ **Computer Engineer**, Aachen Industry Research Center (FIR),Germany. (1998 - 1999)
Part of a software engineering group that developed applications for very large databases.
- TEACHING EXPERIENCE**
- ◇ **Teaching Assistant**, Electrical Engineering Department, Princeton University. (2006)
Course: Computer Architecture. Supervised 8 undergraduate students in implementing a PDP-8 architecture on a Xilinx Spartan3 FPGA.
 - ◇ **Teaching Assistant**, Electrical Engineering Department, Columbia University. (2001)
Course: Genomic Information Science and Technology. Prepared recitations, graded exams.
- COURSES AND RESEARCH PROJECTS**
- ◇ Evolution of biological circuits in complex environments. (2005 - 2009)
Advisor: S. Tavazoie, Princeton University.
 - ◇ Gene classification and regulatory network prediction. (2004 - 2005)
Advisor: S. Y. Kung, Princeton University.

- ◇ In-vivo genetic engineering of logic gates. (2003 - 2004)
Advisor: R. Weiss, Princeton University.
 - ◇ Analysis and design of a gene regulatory network VLSI simulator. (2001 - 2003)
Advisors: C. Zukowski & D. Anastassiou, Columbia University.
 - ◇ Diploma Thesis: Power-aware DWT Implementations (2000 - 2001)
Advisor: C. Goutis, University of Patras.
 - ◇ CS & Molbio Courses: 23 graduate level courses in advanced digital & analog design (PLL, RAMs, Mixers, LNAs, Filters), microcomputers, computer architecture, robotics & control. 9 graduate level courses in Genomics, cell and cancer biology, neuroscience, stochastic biological modeling.
- PEER-REVIEWED PUBLICATIONS
- ◇ **I.Tagkopoulos**, H. Goodarzi, S. Tavazoie, “Robustness and Evolvability in Evolving Biochemical Networks”, in preparation.
 - ◇ **I.Tagkopoulos**, Y.Liu, S. Tavazoie, “Predictive Behavior Within Microbial Genetic Networks.”, *Science*, 320:1313-7, 2008
 - ◇ **I.Tagkopoulos**, D. Serpanos, “Gene Classification and Regulatory Prediction Based on Transcriptional Modeling.” *Proceedings, IEEE Symposium on Signal Processing and Information Technology, ISSPIT2005, Athens, Greece, 2005.*
 - ◇ **I.Tagkopoulos**, “A Transcriptional Approach to Gene Clustering.” *Proceedings, IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, CIBCB2005, San Diego, California, 2005. (student award)*
 - ◇ **I.Tagkopoulos**, N. Slavov, S.Y. Kung, “Multi-class Biclustering and Classification Based on Modeling of Gene Regulatory Networks.” *Proceedings, IEEE Symposium on Bioengineering and Bioinformatics, BIBE2005, Minneapolis, Minnesota, 2005.*
 - ◇ S.Y.Kung, M.W. Mak, and **I.Tagkopoulos**, “Multi-Metric and Multi-Substructure Biclustering Analysis for Gene Expression Data.” *Proceedings, IEEE Computational Systems Bioinformatics Conference, CSB2005, Stanford, California, 2005.*
 - ◇ S.Y.Kung, M.W. Mak, and **I.Tagkopoulos**, “Symmetric and asymmetric multi-modality biclustering analysis for microarray data matrix.”, *Journal of Bioinformatics and Computational Biology*, vol 4(2), pp. 275-298. (invited)
 - ◇ **I.Tagkopoulos**, C.Zukowski, G.Cavelier, D.Anastassiou, “A Custom FPGA for the Simulation of Gene Regulatory Networks.” *Proceedings, Great Lakes Symposium on VLSI, GLSVLSI2003, Washington D.C., 2003.*
 - ◇ N.D.Zervas, **I.Tagkopoulos**, V. Spiliotopoulos, D.Soudris, C.E.Goutis, “Comparison of DWT Scheduling Algorithms Alternatives on Programmable Platforms.” *Proceedings, International Symposium on Circuits and Systems, ISCAS2001, Sidney, Australia, 2001.*
- HONORS & AWARDS
- **Science, Technology & Env. Policy Award** (\$60,000), Princeton, NJ. (2006 - 2008)
 - **Burroghs Wellcome Fellowship** (\$130,000), Princeton, NJ. (2004 - 2006)
 - **Princeton Graduate Fellowship** (\$54,000), Princeton, NJ. (2003 - 2004)
 - **Stanley J. Seeger Fellowship** (\$5,000), Princeton, NJ. (2003 - 2008)
 - **Paul Nichoplas Excellence Award** (\$5,000), Columbia University, NY. (2002 - 2003)
 - **Geroundelis Foundation Scholarship** (\$4,000), Boston, MA. (2001 - 2002)
 - **Teaching Assistant Award** (\$500), Columbia University, NY. (March 2002)
 - **Honorary Distinction Award** (\$1,000), Technical Chamber of Greece. (July 2001)
 - **Erasmus Scholarship** (\$5,000), University of Aachen (RWTH). (Fall 1998)
- ACTIVITIES
- Program committee member of CIBCB 2005-2007. Elected member of Columbia’s Engineering Graduate Student Council, Princeton’s EE GSC, Princeton’s Graduate Student Government. Member of Columbia Archery Club, IEEE, ACM, NYAS.
- Languages: Greek(native), English, German(Zentrale Mittelstufenprüfung, Goethe Institut), French(Diplôme De Langue et Littérature Françaises, Université Paris IV Sorbonne)