

Curriculum Vitae of Haris (Charalampos) Angelidakis

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RESEARCH INTERESTS

My research interests lie in the field of Approximation Algorithms for Combinatorial Optimization problems. I am currently working on the beyond worst-case analysis stability framework introduced by Bilu and Linial, studying how graph partitioning problems (e.g. Multiway Cut), clustering problems (e.g. k -median, k -means) and covering problems (e.g. Vertex Cover, Set Cover) behave under this framework. Prior to this, I worked on preprocessing techniques for optimizing shortest-path queries, and, more precisely, on the Hub Labeling problem. More generally, I am interested in algorithm design inspired by the interplay between theory and practice, with a particular interest in how convex relaxations behave both in worst-case and in beyond worst-case models.

EDUCATION

09 / 2012 - present

Toyota Technological Institute at Chicago,
6th-year PhD student (expected graduation date: June 2018)

03 / 2011 - 07 / 2012

National Technical University of Athens,
Research assistant, working with Prof. Dimitris Fotakis

University of Athens,

Completed coursework for graduate program in Logic, Algorithms and Computation (MPLA)

09 / 2004 - 03 / 2011

National Technical University of Athens,
Diploma in Electrical and Computer Engineering (ECE)

PUBLICATIONS

- H. Angelidakis, K. Makarychev and Y. Makarychev. *Algorithms for Stable and Perturbation-Resilient Problems*. **STOC 2017**.
- H. Angelidakis, Y. Makarychev and P. Manurangsi. *An Improved Integrality Gap for the Calinescu-Karloff-Rabani Relaxation for Multiway Cut*. **IPCO 2017**.
- H. Angelidakis, Y. Makarychev and V. Oparin. *Algorithmic and Hardness Results for the Hub Labeling Problem*. **SODA 2017**.
- H. Angelidakis, D. Fotakis and T. Lianeas. *Stochastic Congestion Games with Risk-Averse Players*. **SAGT 2013**.

TEACHING EXPERIENCE

- **TTIC:** TA for
 - *Algorithms*, Winter 2018
 - *Mathematical Toolkit*, Autumn 2015
- **NTUA:** TA for
 - *Algorithms and Complexity*, Autumn 2010 & Autumn 2011
 - *Introduction to Programming*, Autumn 2010 & Autumn 2011
 - *Programming Techniques*, Spring 2011

TECHNICAL SKILLS

- **Programming:** C, Python, Haskell, Prolog, Assembly x86
- **Applications:** L^AT_EX, Microsoft Office
- **Operating Systems:** Microsoft Windows XP/7, Linux/Unix

LANGUAGES

- **Greek:** native language
- **English:** Certificate of Proficiency in English, University of Cambridge

HONORS AND AWARDS

- Member of team that represented Greece in the World Finals of the 2009 Microsoft Imagine Cup Competition in Cairo, Egypt (Software Design Category).
- Award by the Greek Ministry of Education, Research and Religious Affairs for ranking among the 400 high school students with the highest GPA in the panhellenic exams in Greece for the academic year 2002 - 2003.