Andreas Maggiori

Contact Information

Address: Chemin de la Raye 7, Ecublens 1024, Switzerland
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links:

Education

09/2018-present | **École Polytechnique Fédérale de Lausanne (EPFL), Switzerland**
PhD in Computer Science
Advisors: Rüdiger Urbanke and Ola Svensson

09/2011-10/2017 | **National Technical University of Athens, Greece**
Diploma (5-year joint degree; 300 ECTS),
Electrical and Computer Engineering (ECE)
Grade: 9.12 / 10 (approx. best 3%)

Thesis: Using Machine Learning Techniques to Infer Players' Valuations in Online Ad Auctions
Advisor: Dimitris Fotakis

01/2016-06/2016 | **Universidad Carlos III Madrid, Spain**
Erasmus Exchange Student Program

09/2005-06/2011 | **Lycée Léonin Nea Smirni, Greece**
High School
Grade: 19.5 / 20 - Excellent

Professional Experience

05/2022-08/2022 | **Research Intern, Google Zurich**
07/2021-10/2021 | **Research Intern, Google Zurich**

Research Interests

I am broadly interested in combinatorial optimization, online algorithms, machine learning and their intersection.

Currently, I am focusing on *Learning Augmented (Online) Algorithms*, where (informally) the goal is to design algorithms which provably outperform classical online algorithms when an accurate prediction about the future is available, while maintaining robustness against adversarial predictions.

Publications

Authors (as customary in theory) are in alphabetical order.

1. Online and Consistent Correlation Clustering
ICML 2022
V. Cohen-Addad, S. Lattanzi, A. Maggiori, N. Parotsidis

2. An Improved Analysis of Greedy for Online Steiner Forest
SODA 2022
É. Bamas, M. Drygala, A. Maggiori

3. The Primal-Dual method for Learning Augmented Algorithms
NeurIPS 2020 (oral talk)
É. Bamas, A. Maggiori, O. Svensson

4. Learning Augmented Energy Minimization via Speed Scaling
NeurIPS 2020 (spotlight presentation)
É. Bamas, A. Maggiori, L. Rohwedder, O. Svensson

5. Online Matching with General Arrivals **FOCS 2019**
   B. Gamlath, M. Kapralov, A. Maggiori, O. Svensson, D. Wajc

Computer Skills

Programming Languages (Excellent):	Python, C++, SQL
Programming Languages (Familiar with):	C, SML/NJ, Prolog, MATLAB, Bash
ML Frameworks (Familiar with):	PyTorch

Teaching Experience

I co-organized a study-group on how continuous optimization methods can be used to tackle combinatorial problems. The website of the study-group with notes and recorded lectures can be found here.

I am/was teaching assistant for the following courses:

- NTUA: Algorithms and Complexity, Discrete Mathematics
- EPFL: Theory of Computation, Machine Learning, Learning Theory, Algorithms, Advanced Probability and Applications

Awards

2017:	1st in the NTUA hub at `Google Hashcode` programming competition (170 in the world) with the team *Veni Vidi Vsync*
2013:	Bronze medal at `SEEMOUS` (South Eastern European Mathematical Olympiad for University Students) competition [results]
2010:	Bronze medal on `Euclid` phase of high school mathematics competition organized by the Hellenic Mathematical Society
2010	Finalist in the `Physics` high school competition organized by the Union of Greek Physicists
2008, 2010:	Twice finalist in the `Archimedes` high school mathematics competition organized by the Hellenic Mathematical Society

Languages

Greek:	Mothertongue
Italian:	Mothertongue
English:	Professional working proficiency (C2, Certificate of Proficiency, Michigan)
French:	Professional working proficiency (C2, Certificate of Sorbonne)
Spanish:	Elementary proficiency (B2, Diploma Instituto Cervantes)

References

Ola Svensson:	ola.svensson@epfl.ch
Rüdiger Urbanke:	rudiger.urbanke@epfl.ch