

## Zampetakis V. Emmanouil (Manolis)

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Cambridge, MA

RESEARCH INTERESTS Theoretical Machine Learning, Algorithmic Game Theory, Mechanism Design, Computational Learning Theory, Sublinear Algorithms, Complexity Theory.

EDUCATION **Massachusetts Institute of Technology**, Cambridge, MA

M.Sc. in Computer Science, 2014 - 2016

- *Thesis* : Contraction Maps and Applications to the Analysis of Iterative Algorithms
- *GPA* : 5.0/5.0

Ph.D. in Theoretical Computer Science, 2016 -

**National Technical University of Athens**, Athens, Greece

Diploma in Engineering, 2008 - 2014  
Electrical and Computer Engineering

- *Major* : Computer Science and Computer Engineering
- *Minor* : Control Theory and Networks
- *Thesis* : Mechanism Design with Verification
- *GPA* : 9.5/10 (top 1 %)

WORKING PAPERS Gatzelis V., Schoepflin D., Tzamos C., Zampetakis E. *Truthful Scheduling Mechanisms without Money*

Epasto A., Mahdian M., Mirrokni V., Zampetakis E. *Differential Privacy with Multiplicative Approximation: Beyond the Exponential Mechanism*

Epasto A., Mahdian M., Mirrokni V., Zampetakis E. *Bypassing Differential Privacy for Mechanism Design*

Gouleakis T., Tzamos C., Zampetakis E. *Learning from Unreliable Data Sets*

PUBLICATIONS Daskalakis C., Tzamos C., Zampetakis E. *A Converse to Banach's Fixed Point Theorem and its CLS Completeness*, 50th Annual ACM Symposium on the Theory of Computing (STOC), 2018

Daskalakis C., Tzamos C., Zampetakis E. *Bootstrapping EM via Power EM and Convergence in the Naive Bayes Model*, 21st International Conference on Artificial Intelligence and Statistics (AISTATS), 2018

Daskalakis C., Tzamos C., Zampetakis E. *Ten Steps of EM Suffice for Mixtures of Two Gaussians*, 30th Annual Conference on Learning Theory (COLT), 2017  
Preliminary version at NIPS Workshop on Non-Convex Optimization, 2016.

Gouleakis T., Tzamos C., Zampetakis E. *Faster Sublinear Algorithms via Conditional Sampling*, 28th ACM-SIAM Symposium on Discrete Algorithms (SODA), 2017

Fotakis D., Tzamos C., Zampetakis E. *Mechanism Design with Selective Verification*, 17th ACM Economics and Computation (EC), 2016

Fotakis D., Tsipras D., Tzamos C., Zampetakis E. *Efficient Money Burning in General Domains*, 8th International Symposium on Algorithmic Game Theory (SAGT), 2015  
Theory of Computing Systems, 2016 **Invited. Special Issue for SAGT 2015.**

Fotakis D., Milis I., Papadigenopoulos O., Zampetakis E., Zois G. *Scheduling MapReduce Jobs and Data Shuffle on Unrelated Processors*, 14th International Symposium on Experimental Algorithms (SEA), 2015

Fotakis D., Milis I., Zampetakis E., Zois G. *Scheduling Map-Reduce Jobs on Unrelated Processors*, EDBT Workshop on Algorithms for Map Reduce and Beyond, 2014

Fotakis D., Zampetakis E., *Truthfulness Flooded Domains and the Power of Verification for Mechanism Design*, 9th Conference on Web and Internet Economics (WINE), 2013  
ACM Transactions on Economics and Computation, 2015 **Invited. Special Issue for WINE 2013.**

#### AWARDS

**Testing the Limits Award** for the 30th Annual Conference on Learning Theory (COLT), Amsterdam, Netherlands 2017

**Special Issue** for the 8th International Symposium on Algorithmic Game Theory 2015

**Special Issue** for the 9th Conference on Web and Internet Economics 2013

**Second Prize** in 19th International Mathematics Competition ( IMC ) 2012

**Papakyriakopoulos Award** for excellence in Mathematics amongst the Electrical and Computer Engineering students 2009

**Fourth place** in Panhellenic Physics Competition 2008

Member of the Greek team in 39th International Physics Olympiad 2008

#### RESEARCH EXPERIENCE

**Research Intern, Google Research, New York City** Summer 2017

#### TEACHING EXPERIENCE

**TA for Graduate course 6.853 “Algorithmic Game Theory and Data Science”**.  
Instructors : C. Daskalakis, V. Syrganis Spring 2017

**TA for Undergraduate course 6.046 “Design and Analysis of Algorithms”**.  
Instructors: C. Daskalakis, V. Vaikuntanathan, S. Jegelka. Spring 2016

**TA for Graduate course 6.891 “Games, Decision, and Computation”**.  
Instructor : C. Daskalakis Spring 2015

**TA for Undergraduate course “Algorithms and Complexity” at NTUA**.  
Instructors : S. Zachos and D. Fotakis. Fall 2012, 2013

**TA for Undergraduate course “Discrete Mathematics” at NTUA**.  
Instructors : F. Afrati and D. Fotakis. Spring 2011

**TA for Undergraduate course “Introduction to Computer Programming”**.  
Instructors : S. Zachos, N. Papaspirou and D. Fotakis. Fall 2011, 2012, 2013

#### PROFESSIONAL EXPERIENCE

**Automation System Designer** at Dimoulas Automation company 2009 – 2012

**Freelancer Programmer** 2012 - 2014

#### ACTIVITIES

**Sound Palettes Project** 2011 - 2012

**Voluntary blood donor** 2009 - present

#### TECHNICAL SKILLS

**Programming Languages:** C/C++, Python, ML/Ocaml

**Web Development:** JavaScript, PHP

**Applications:** MATLAB, Mathematica, LabView

#### EXTRAS – HOBBIES

**Music :** amateur harmonica and baglama player

**Sports :** jogging, basketball, swimming