Anthimos Vardis Kandiros

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RESEARCH INTERESTS

Machine Learning Theory, Causal Inference, High Dimensional Probability and Statistics.

EDUCATION

2019-Present **Massachusetts Institute of Technology (MIT)**

PhD in Electrical Engineering and Computer Science (EECS)

Advisor: Constantinos Daskalakis

2013-2018 **National Technical University of Athens (NTUA)**
Diploma (5-year degree) in Electrical and Computer Engineering
GPA: 9.94/10.00 - Excellent
Major: Computer Science and Engineering, Computational Systems
Minor: Networks and Telecommunications, Mathematics
Thesis Title: "Opinion Dynamics with Limited Information", Grade: (10/10)
Thesis Advisor: Dimitris Fotakis

PUBLICATIONS

Preprints

Vardis Kandiros, Charilaos Pipis, Constantinos Daskalakis, Christopher Harshaw, *The Conflict Graph Design: Estimating Causal Effects under Arbitrary Neighborhood Interference,* 2024

Constantinos Daskalakis, Vardis Kandiros, Rui Yao, *Learning Directed Gaussian Graphical Models without Condition Number Bounds,* 2024

Published or Accepted Papers

Andreas Galanis, Alkis Kalavasis, Anthimos Vardis Kandiros, *On Sampling Ising Models with Spectral Constraints*, International Conference on Randomization and Computation (RANDOM) 2024 .

Andreas Galanis, Alkis Kalavasis, Anthimos Vardis Kandiros, *Learning Hard-Constrained Models with One Sample*, Symposium on Discrete Algorithms (SODA) 2024 .

Davin Choo, Yuval Dagan, Constantinos Daskalakis, Anthimos Vardis Kandiros, *Learning and Testing Latent-Tree Ising Models Efficiently*. Conference on Learning Theory (COLT) 2023.

Yuval Dagan, Constantinos Daskalakis, Vardis Kandiros, *EM's Convergence in Latent Gaussian Tree Models*, Conference on Learning Theory (COLT) 2022.

Yuval Dagan, Constantinos Daskalakis, Nishanth Dikkala, Surbhi Goel, Vardis Kandiros, *Statistical Estimation from Dependent Data*, International Conference on Machine Learning (ICML) 2021 (Virtual Conference)

Yuval Dagan, Constantinos Daskalakis, Nishanth Dikkala and Anthimos Vardis Kandiros, *Learning Ising models from One or Multiple Samples*, Symposium on Theory of Computing (STOC) 2021 (Virtual Conference)

Dimitris Fotakis, Vardis Kandiros, Thanasis Lianeas, Nikos Mouzakis, Panagiotis Patsilinakos and Stratis Skoulakis, *Node-Max-Cut and the Complexity of Equilibrium in Linear Weighted Congestion Games*, International Conference on Automata, Languages and Programming (ICALP) 2020 (Virtual Conference)

Dimitris Fotakis, Vardis Kandiros, Vasilis Kontonis and Stratis Skoulakis, *Opinion Dynamics with Limited Information*. Conference on Web and Internet Economics (WINE) 2018.

SELECTED HONORS & AWARDS

Eric and Wendy Schmidt Center (EWSC) PhD Fellowship at MIT EECS (2021-2023).
Onassis Foundation Scholarship for graduate studies (2019-2023).
Paris Kanellakis Fellowship for academic year 2019-2020 at MIT EECS.
Kondoulis Award for graduating 1st among the approximately 1500 graduating students of NTUA in the year 2018.
Limmat Stiftung Award, Chrysovergis Award for graduating 1st among the 350 students of my graduating class in EECS at NTUA.
Thomaideion Award for achieving the second highest GPA among all undergraduate students of the ECE department during the academic years 2015-2016 and 2017-2018.

Thomaideion Award for publications for publishing original research work as an undergrad (2018).

Second Prize & Fair Play and Personal Honesty Award in the 23rd International Mathematics Competition for University Students (IMC), 2016.

Papakyriakopoulos Award, Nikolaos Kritikos Award for excellent performance in the Mathematics courses in the years 1 & 2 of my studies.

"A Great Moment for Education" Award, given from Eurobank for achieving the highest score in the panhellenic examinations among the students at my high school.

SELECTED TALKS

"The Conflict Graph Design: Estimating Causal Effects under Arbitrary Neighborhood Interference"
Oct 2024   Session on Algorithm Design for Randomized Experiments, INFORMS.

"Learning and Testing Latent-Tree Ising Models Efficiently"
Aug 2023   Athens Colloquium on Algorithms and Complexity (ACAC) 2023.

"Statistical Estimation from Dependent Data"
Nov 2022   Yale Institute of Network Science (YINS) Seminar.
Nov 2022   Theory Seminar, Northeastern University.

"On the Convergence of EM in Latent Gaussian Tree Models"
Aug 2022   Athens Colloquium on Algorithms and Complexity (ACAC) 2022.
Mar 2022   EWSC Lab Meeting, Broad Institute of MIT and Harvard.

"Learning Ising Models from One or Multiple Samples"
Sep 2021   International Symposium on Fundamentals of Computation Theory (FCT) 2022, Young Researchers Forum
Aug 2021   Athens Colloquium on Algorithms and Complexity (ACAC) 2021.

TEACHING/SERVICE

- Teaching Assistant for the fourth-year undergraduate course "Algorithms and Complexity" taught in 2018—2019 in NTUA.
- Served as a Reviewer/sub-Reviewer for FOCS, STOC, SODA, ITCS, NeurIPS, ICML, ICLR, ALT, RANDOM, WINE.
- Instructor at Camp of the Greek National Competition in Informatics in 2018. The aim was to prepare the finalists of the third stage of the Competition for the final selection contest to determine the team for IOI.

GRADUATE COURSES ATTENDED

2019-Present (MIT)   Theory of Probability, Probabilistic Methods in Combinatorics, Advanced Complexity Theory, Information Theory, Algebraic Topology I, Stochastic Calculus, Advanced Algorithms, Algorithms for Inference

2013-2018 (NTUA)   Computability and Complexity, Cryptography and Number Theory, Advanced Algorithms, Approximation Algorithms

VOLUNTEERING

- Served as Officer for Sidney Pacific Graduate Dormitory (MIT) for the year 2021-2022. I was responsible for handling reimbursement requests for various events organized by MIT students (Controller position).

SKILLS

Languages: **Greek** (Native), **English** (Fluent-C2), **German** (Fluent - C1), **Chinese** (Very Good **-** B1)
IT Skills: Windows, Linux/UNIX, C, C++, Python, SML, Java, Prolog, Matlab, Javascript