Anargyros-Georgios (Argyris) Mouzakis

CONTACT INFORMATION

Cheriton School of Computer Science
Davis Centre
Room 2306N1
200 University Ave W
Waterloo, ON N2L 3G1

Email: amouzaki@uwaterloo.ca
Website: argymouz.github.io

RESEARCH INTERESTS

Machine Learning Theory, Algorithmic Statistics, Privacy

EDUCATION

University of Waterloo, (Waterloo, Ontario, Canada)
PhD in Computer Science, Sept. 2020 - Present
Advisor: Gautam Kamath

National Technical University of Athens, (Athens, Greece)
Diploma (5 - year degree) in Electrical and Computer Engineering, Nov. 2019
Thesis: Learning Techniques for Ranking Distributions
Advisor: Dimitris Fotakis
GPA: 9.1/10 (Excellent) - ranked 17th among 290 graduates of 2019

PUBLICATIONS AND MANUSCRIPTS

Optimal Differentially Private Sampling of Unbounded Gaussians
Valentio Iverson, Gautam Kamath, Argyris Mouzakis
arxiv:2503.01766, 2025

Private Mean Estimation with Person-Level Differential Privacy
Sushant Agarwal, Gautam Kamath, Mahbod Majid, Argyris Mouzakis, Rose Silver, Jonathan Ullman
Symposium on Discrete Algorithms (SODA), 2025

Not All Learnable Distribution Classes are Privately Learnable
Mark Bun, Gautam Kamath, Argyris Mouzakis, Vikrant Singhal
International Conference on Algorithmic Learning Theory (ALT), 2024

A Bias-Variance-Privacy Trilemma for Statistical Estimation
Gautam Kamath, Argyris Mouzakis, Matthew Regehr, Vikrant Singhal
Thomas Steinke, Jonathan Ullman
Journal of the American Statistical Association (JASA)
Workshop on Theory and Practice of Differential Privacy (TPDP), 2023

New Lower Bounds for Private Estimation and a Generalized Fingerprinting Lemma
Gautam Kamath, Argyris Mouzakis, Vikrant Singhal
Conference on Neural Information Processing Systems (NeurIPS), 2022
Workshop on Theory and Practice of Differential Privacy (TPDP), 2022

A Private and Computationally Efficient Estimator for Unbounded Gaussians
Gautam Kamath, Argyris Mouzakis, Vikrant Singhal, Thomas Steinke, Jonathan Ullman
Conference on Learning Theory (COLT), 2022
Workshop on Theory and Practice of Differential Privacy (TPDP), 2022

Undergraduate Advising

Valentio Iverson (Fall 2024 - Present)
Co-authored "Optimal Differentially Private Sampling of Unbounded Gaussians"

Research Experience

Research Intern, University of Cambridge (Summer 2023)
Mentors: Po-Ling Loh, Varun Jog

Research Intern, Max Plank Institute for Informatics (Summer 2020)
Mentors: Vasileios Nakos, Themis Gouleakis

Honors and Awards

Onassis Foundation Scholarship for PhD Students (Onassis Foundation, awarded Sept. 2023 - Dec. 2025)
Cheriton Graduate Scholarship for Incoming Students (University of Waterloo, awarded Sept. 2020 - Aug. 2022)
Third Prize in the International Mathematics Competition for University Students (IMC, 2019)
Bronze Medal in the South Eastern European Mathematical Olympiad for University Students (SEEMOUS, 2015)
Distinctions in the Panhellenic Physics Competition (ranked 19th, 31st and 23rd respectively, 2012 - 2014)
Bronze Medals in the Greek Mathematical Olympiad (2011, 2014)
Runner-up for the Junior Balkan Mathematical Olympiad (2011 - tied in positions 8 - 10 in the selection process for the Greek team)

Teaching Experience

At the University of Waterloo:

CS480: Introduction to Machine Learning (Fall 2023, Spring 2024, Winter 2025)

CS370: Numerical Computation (Winter 2023)

CS341: Algorithms (Fall 2022, Winter 2024)

CS245: Logic and Computation (Spring 2022, 2023)

CS246: Object-Oriented Software Development (Spring 2021, Fall 2021, Winter 2022)

At the National Technical University of Athens

Algorithms & Complexity (Fall 2019)

Computer Programming (Fall 2015 - 2018)

Professional Service

Conference Reviewer: COLT 2025, ITCS 2025, SODA 2025, COLT 2024, STOC 2024, ITCS 2024, SODA 2024, FOCS 2023, ICML 2022, NeurIPS 2021-2023

Journal Reviewer: JMLR, IEEE Transactions on Information Theory

Organizer: University of Waterloo Algorithms & Complexity Seminar (Winter 2022 - present), Student Seminar (Fall 2021 - Winter 2022)

Volunteering

Moderator for the ECE NTUA students' forum and its associated Wikipedia-style project (2016 - 2021)

Skills

Programming: C/C++, Python, Matlab/Octave

Languages: Greek (Native), English (Cambridge C2 Proficiency), French (Sorbonne C2)