Nikos Zarifis

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EDUCATION

University of Wisconsin-Madison Aug 2019 - now
Ph.D. in Computer Sciences
Advisor: Ilias Diakonikolas

National Technical University of Athens Sep 2012 - Nov 2018
Diploma in Electrical and Computer Engineering
Major: Computer Science Minor: Mathematics
Advisor: Dimitris Fotakis

RESEARCH INTERESTS

Theoretical Computer Science, Machine Learning Theory, Statistics

PUBLICATIONS

A Polynomial Time Algorithm for Learning Halfspaces with Tsybakov Noise with I. Diakonikolas, D. M. Kane, V. Kontonis, C. Tzamos (**STOC 2021**)

Learning Halfspaces with Tsybakov Noise with I. Diakonikolas, V. Kontonis, C. Tzamos (**STOC 2021**, to be merged with above)

Near-Optimal SQ Lower Bounds for Agnostically Learning Halfspaces and ReLUs under Gaussian Marginals with I. Diakonikolas, D. M. Kane (**NeurIPS 2020**)

Non-Convex SGD Learns Halfspaces with Adversarial Label Noise with I. Diakonikolas, V. Kontonis, C. Tzamos (**NeurIPS 2020**)

Algorithms and SQ Lower Bounds for PAC Learning One-Hidden-Layer ReLU Networks with I. Diakonikolas, D. M. Kane, V. Kontonis (**COLT 2020**)

Learning Halfspaces with Massart Noise Under Structured Distributions with I. Diakonikolas, V. Kontonis, C. Tzamos (**COLT 2020**)

Reallocating multiple facilities on the line with D. Fotakis, L. Kavouras, P. Koutsopanagiotis, P. Lazos, S. Skoulakis (**TCS 2021**)

MANUSCRIPTS

Agnostic Proper Learning of Halfspaces under Gaussian Marginals with I. Diakonikolas, D. M. Kane, V. Kontonis, C. Tzamos

The Optimality of Polynomial Regression for Agnostic Learning under Gaussian Marginals with I. Diakonikolas, D. M. Kane, T. Pittas

AWARDS

Gerondellis Fellowship 2020, Papakyriakopoulou Fellowship 2012-2013 (For excellence in Mathematics), Silver Medal on SEEMOUS 2013, Gold Medal on SEEMOUS 2014 (Greek national team)

TEACHING EXPERIENCE

Teaching Assistant, UW-Madison
CS639: "*Intro to Computational Learning Theory*" Fall-Spring 2020
CS300: "*Introduction to Programming II*" Fall 2019
Teaching Assistant, NTUA

Introduction to Computer Programming	Fall 2013-2019
Discrete Mathematics	Spring 2018
Algorithms and Complexity	Fall 2017-2019

TECHNICAL SKILLS

Programming Languages: C, C++(Advanced), Ocaml, Python, Java, SQL
Applications: Mathematica, MATLAB

LANGUAGES

English (fluent), **Greek** (native)