

Nikos Zarifis

nikoszarifis.github.io

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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

Agnostic Proper Learning of Halfspaces under Gaussian Marginals with I. Diakonikolas, D. M. Kane, V. Kontonis, C. Tzamos (**COLT 2021**)

The Optimality of Polynomial Regression for Agnostic Learning under Gaussian Marginals with I. Diakonikolas, D. M. Kane, T. Pittas (**COLT 2021**)

Learning Online Algorithms with Distributional Advice with I. Diakonikolas, V. Kontonis, C. Tzamos, A. Vakilian (**ICML 2021**)

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

Learning General Halfspaces with General Massart Noise under the Gaussian Distribution with I. Diakonikolas, D. M. Kane, V. Kontonis, C. Tzamos

AWARDS

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

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

SERVICE

Reviewing Neural Information Processing Systems (NeurIPS): 2021 (Outstanding Reviewer Award: Top 8%)

TECHNICAL SKILLS

Programming Languages C, C++, Python, Java

Applications Mathematica, MATLAB

LANGUAGES

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