

# Nikos Zarifis

nikoszarifis.github.io

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## EDUCATION

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**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

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Theoretical Computer Science, Machine Learning Theory, Statistics

## PUBLICATIONS

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**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**)

## AWARDS

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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

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**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**

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

Applications: Mathematica, MATLAB

**LANGUAGES**

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