Konstantinos (Kostas) Stavropoulos

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RESEARCH INTERESTS	Machine Learning; Robustness; Distribution Shift; Computational Learning Theory.

EDUCATION

University of Texas at Austin — *2021–present*
Ph.D. student, Computer Science
Advisor: Adam Klivans

National Technical University of Athens (NTUA) — *2015–2020*
Diploma in Electrical & Computer Engineering (5–year joint degree)
GPA: 9.76/10 (First in cohort)
Thesis: Learning rankings from incomplete samples
Advisor: Dimitris Fotakis

AWARDS AND FELLOWSHIPS

Apple Scholars in AI/ML PhD fellowship	*2025*
Best paper award at Conference on Learning Theory (COLT)	*2024*
Bodossaki Foundation fellowship	*2022-25*
Leventis Foundation fellowship	*2022-25*
Gerondellis Foundation fellowship	*2022*
Scholarship award from Hellenic Professional Society of Texas	*2022*
Award of Excellence from State Scholarships Foundation	*2020*
for graduating first in my cohort within the nominal period of studies	
Thomaideio Award from NTUA for highest GPA during a year	*2019*
Award from Eurobank "The Great Moment for Education"	*2015*
for graduating first in my high school	

PUBLICATIONS   *(alphabetical author order)*

13. Learning Constant-Depth Circuits in Malicious Noise Models
Adam Klivans, Konstantinos Stavropoulos, Arsen Vasilyan
COLT 2025

12. Learning Neural Networks with Distribution Shift:
Efficiently Certifiable Guarantees
Gautam Chandrasekaran, Adam Klivans, Lin Lin Lee, Konstantinos Stavropoulos
ICLR 2025

11. Learning Noisy Halfspaces with a Margin:
Massart is No Harder than Random
Gautam Chandrasekaran, Vasilis Kontonis, Konstantinos Stavropoulos, Kevin Tian
NeurIPS 2024 ★ Spotlight ★

10. Tolerant Algorithms for Learning with Arbitrary Covariate Shift
Surbhi Goel, Abhishek Shetty, Konstantinos Stavropoulos, Arsen Vasilyan
NeurIPS 2024 ★ Spotlight ★

10. Efficient Discrepancy Testing for Learning with Distribution Shift
Gautam Chandrasekaran, Adam Klivans, Vasilis Kontonis,
Konstantinos Stavropoulos, Arsen Vasilyan
NeurIPS 2024

**8. Smoothed Analysis for Learning Concepts
with Low Intrinsic Dimension**
Gautam Chandrasekaran, Adam Klivans, Vasilis Kontonis,
Raghu Meka, Konstantinos Stavropoulos
COLT 2024 ★ Best Paper ★

**7. Learning Intersections of Halfspaces with Distribution Shift:
Improved Algorithms and SQ Lower Bounds**
Adam Klivans, Konstantinos Stavropoulos, Arsen Vasilyan
COLT 2024

6. Testable Learning with Distribution Shift
Adam Klivans, Konstantinos Stavropoulos, Arsen Vasilyan
COLT 2024

5. An Efficient Tester-Learner for Halfspaces
Aravind Gollakota, Adam Klivans, Konstantinos Stavropoulos, Arsen Vasilyan
ICLR 2024

4. Tester-Learners for Halfspaces: Universal Algorithms
Aravind Gollakota, Adam Klivans, Konstantinos Stavropoulos, Arsen Vasilyan
NeurIPS 2023 ★ Oral ★

3. Agnostically Learning Single-Index Models using Omnipredictors
Aravind Gollakota, Parikshit Gopalan, Adam Klivans, Konstantinos Stavropoulos
NeurIPS 2023

**2. Learning and Covering Sums of Independent Random Variables
with Unbounded Support**
Alkis Kalavasis, Konstantinos Stavropoulos, Manolis Zampetakis
NeurIPS 2022 ★ Oral ★

1. Aggregating Incomplete and Noisy Rankings
Dimitris Fotakis, Alkis Kalavasis, Konstantinos Stavropoulos
AISTATS 2021

PREPRINTS

**P2. The Power of Iterative Filtering for Supervised
Learning with (Heavy) Contamination**.
Adam Klivans, Konstantinos Stavropoulos, Kevin Tian, Arsen Vasilyan.
Under review. ArXiv preprint: [https://arxiv.org/abs/2505.20177]

P1. Testing Noise Assumptions of Learning Algorithms
Surbhi Goel, Adam Klivans, Konstantinos Stavropoulos, Arsen Vasilyan
Under review. ArXiv preprint: [https://arxiv.org/abs/2501.09189]

Talks		
	Efficiently Certifiable Guarantees for Learning with Distribution Shift	*January 2025*
	Archimedes Center for Research in AI, Data Science and Algorithms	
	Learning Intersections of Halfspaces with Distribution Shift: Improved Algorithms and SQ Lower Bounds	*July 2024*
	Conference on Learning Theory (COLT) 2024	
	Tester-Learners for Halfspaces: Universal Algorithms	*December 2023*
	Oral Presentation, NeurIPS 2023	
	Learning and Covering Sums of Independent Random Variables with Unbounded Support	*December 2022*
	Oral Presentation, NeurIPS 2022	

Service and Teaching		
	Reviewing: COLT 2025, ICLR 2024, ICML 2024, NeurIPS 2023	
	Teaching Assistant, New Horizons Summer School in TCS	*June 2023*
	Teaching Assistant, UT Austin	*Spring 2023*
	Course: Principles of Machine Learning I: Honors (CS363H)	
	Instructor: Adam Klivans	
	Teaching Assistant, NTUA, Greece	*Fall 2020 – Spring 2021*
	Courses: Algorithms and Complexity, Discrete Mathematics	
	Instructor: Dimitris Fotakis	

Languages and Skills	
	English (fluent), French (basic), Greek (native)
	Python, LaTeX, C/C++