

Konstantinos (Kostas) Stavropoulos

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RESEARCH INTERESTS	Machine Learning; Robustness; Distribution Shift; Computational Learning Theory.	
EDUCATION	University of Texas at Austin Ph.D. student, Computer Science <i>Advisor:</i> Adam Klivans	<i>2021–present</i>
	National Technical University of Athens (NTUA) Diploma in Electrical & Computer Engineering (5–year joint degree) <i>GPA:</i> 9.76/10 (First in cohort) <i>Thesis:</i> Learning rankings from incomplete samples <i>Advisor:</i> Dimitris Fotakis	<i>2015–2020</i>
AWARDS AND FELLOWSHIPS	Apple Scholars in AI/ML PhD fellowship	<i>2025</i>
	Best paper award at Conference on Learning Theory (COLT)	<i>2024</i>
	Bodossaki Foundation fellowship	<i>2022–25</i>
	Leventis Foundation fellowship	<i>2022–25</i>
	Gerondellis Foundation fellowship	<i>2022</i>
	Scholarship award from Hellenic Professional Society of Texas	<i>2022</i>
	Award of Excellence from State Scholarships Foundation for graduating first in my cohort within the nominal period of studies	<i>2020</i>
	Thomaideio Award from NTUA for highest GPA during a year	<i>2019</i>
	Award from Eurobank “The Great Moment for Education” for graduating first in my high school	<i>2015</i>
PUBLICATIONS	<i>(alphabetical author order)</i>	
	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

Testing Noise Assumptions of Learning Algorithms

Surbhi Goel, Adam Klivans, Konstantinos Stavropoulos, Arsen Vasilyan

Under review. ArXiv preprint: [\[https://arxiv.org/abs/2501.09189\]](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 Conference on Learning Theory (COLT) 2024	July 2024
	Tester-Learners for Halfspaces: Universal Algorithms Oral Presentation, NeurIPS 2023	December 2023
	Learning and Covering Sums of Independent Random Variables with Unbounded Support Oral Presentation, NeurIPS 2022	December 2022
SERVICE AND TEACHING	Reviewing: COLT 2025, ICLR 2024, ICML 2024, NeurIPS 2023 Teaching Assistant, New Horizons Summer School in TCS Teaching Assistant, UT Austin <i>Course:</i> Principles of Machine Learning I: Honors (CS363H) <i>Instructor:</i> Adam Klivans Teaching Assistant, NTUA, Greece <i>Courses:</i> Algorithms and Complexity, Discrete Mathematics <i>Instructor:</i> Dimitris Fotakis	June 2023 Spring 2023 Fall 2020 – Spring 2021
LANGUAGES AND SKILLS	English (fluent), French (basic), Greek (native) Python, L ^A T _E X, C/C++	