

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>
INDUSTRY EXPERIENCE	Apple Machine Learning Research Research intern with Parikshit Gopalan	<i>June 2025 – August 2025</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 ★

9. 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: [\[https://arxiv.org/abs/2505.20177\]](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

Efficient Learning Algorithms under (Heavy) Contamination *July 2025*
Stanford CS Theory Lunch, Apple MLR internal group meeting

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: FOCS 2025, 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++