

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 ★	

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: [\[https://arxiv.org/abs/2501.09189\]](https://arxiv.org/abs/2501.09189)

TALKS	Efficiently Certifiable Guarantees for Learning with Distribution Shift Archimedes Center for Research in AI, Data Science and Algorithms	<i>January 2025</i>
	Learning Intersections of Halfspaces with Distribution Shift: Improved Algorithms and SQ Lower Bounds Conference on Learning Theory (COLT) 2024	<i>July 2024</i>
	Tester-Learners for Halfspaces: Universal Algorithms Oral Presentation, NeurIPS 2023	<i>December 2023</i>
	Learning and Covering Sums of Independent Random Variables with Unbounded Support Oral Presentation, NeurIPS 2022	<i>December 2022</i>
SERVICE AND TEACHING	Reviewing: COLT 2025, ICLR 2024, ICML 2024, NeurIPS 2023	
	Teaching Assistant, New Horizons Summer School in TCS <i>Course:</i> Principles of Machine Learning I: Honors (CS363H) <i>Instructor:</i> Adam Klivans	<i>June 2023</i>
	Teaching Assistant, UT Austin <i>Course:</i> Principles of Machine Learning I: Honors (CS363H) <i>Instructor:</i> Adam Klivans	<i>Spring 2023</i>
	Teaching Assistant, NTUA, Greece <i>Courses:</i> Algorithms and Complexity, Discrete Mathematics <i>Instructor:</i> Dimitris Fotakis	<i>Fall 2020 – Spring 2021</i>
LANGUAGES AND SKILLS	English (fluent), French (basic), Greek (native) Python, \LaTeX , C/C++	