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## Publications **Smoothed Analysis for Learning Concepts with Low Intrinsic Dimension**

Gautam Chandrasekaran, Adam Klivans, Vasilis Kotonis,  
Raghu Meka, Konstantinos Stavropoulos  
*Proceedings of the 37th Annual Conference on Learning Theory*  
**Best Paper Award**  
**COLT 2024**

## **Active Learning with Simple Questions**

Vasilis Kotonis, Mingchen Ma, Christos Tzamos  
*Proceedings of the 37th Annual Conference on Learning Theory*  
**COLT 2024**

## **Agnostically Learning Multi-index Models with Queries**

Ilias Diakonikolas, Daniel M. Kane, Vasilis Kotonis,  
Christos Tzamos, Nikos Zarifis  
*Proceedings of the 65th Annual Symposium on Foundations of Computer Science*  
**FOCS 2024**

## **Super Non-singular Decompositions of Polynomials and their Application to Robustly Learning Low-degree PTFs**

Ilias Diakonikolas, Daniel M Kane, Vasilis Kotonis,  
Sihan Liu, Nikos Zarifis  
*Proceedings of the 56th Annual ACM Symposium on Theory of Computing*  
**STOC 2024**

## **Active Classification with Few Queries under Misspecification**

Vasilis Kotonis, Mingchen Ma, Christos Tzamos  
*Proceedings of the 38th Conference on Neural Information Processing Systems*  
**NeurIPS 2024**

## **Learning Noisy Halfspaces with a Margin: Massart is no Harder than Random**

Gautam Chandrasekaran, Vasilis Kotonis, Kostas Stavropoulos, Kevin Tian  
*Proceedings of the 38th Conference on Neural Information Processing Systems*  
**NeurIPS 2024**

## **Efficient Discrepancy Testing for Learning with Distribution Shift**

Gautam Chandrasekaran, Adam Klivans Vasilis Kontonis,  
Kostas Stavropoulos, Arsen Vasilyan  
*Proceedings of the 38th Conference on Neural Information Processing Systems*  
**NeurIPS 2024**

**Optimizing Solution-Samplers for Combinatorial Problems:  
The Landscape of Policy Gradient Methods**

Constantinos Caramanis, Dimitris Fotakis, Alkis Kalavasis  
Vasilis Kontonis, Christos Tzamos  
*Proceedings of the 37th Conference on Neural Information Processing Systems*  
**Selected for Oral Presentation**  
**NeurIPS 2023**

**SLaM: Student Label Mixing for Distillation with Unlabeled Examples**

Vasilis Kontonis, Fotis Iliopoulos, Khoa Trinh,  
Cenk Baykal, Gaurav Menghani, Erik Vee  
*Proceedings of the 37th Conference on Neural Information Processing Systems*  
**NeurIPS 2023**

**The Gain from Ordering in Online Learning**

Vasilis Kontonis, Mingchen Ma, Christos Tzamos  
*Proceedings of the 37th Conference on Neural Information Processing Systems*  
**NeurIPS 2023**

**Efficient Testable Learning of Halfspaces with Adversarial Label Noise**

Ilias Diakonikolas, Daniel M Kane, Vasilis Kontonis,  
Sihan Liu, Nikos Zarifis  
*Proceedings of the 37th Conference on Neural Information Processing Systems*  
**NeurIPS 2023**

**Self Directed Linear Classification**

Ilias Diakonikolas, Vasilis Kontonis, Christos Tzamos, Nikos Zarifis  
*Proceedings of the 36th Annual Conference on Learning Theory*  
**COLT 2023**

**Weighted Distillation with Unlabeled Examples**

Fotis Iliopoulos, Vasilis Kontonis, Cenk Baykal,  
Gaurav Menghani, Khoa Trinh, Erik Vee  
*Proceedings of the 36th Conference on Neural Information Processing Systems*  
**NeurIPS 2022**

**Linear Label Ranking with Bounded Noise.**

Dimitris Fotakis, Alvertos Kalavasis, Vasilis Kontonis, Christos Tzamos  
*Proceedings of the 36th Conference on Neural Information Processing Systems*  
**Selected for Oral Presentation**

*NeurIPS 2022*

**Learning General Halfspaces with General Massart Noise  
under the Gaussian Distribution**

Ilias Diakonikolas, Daniel M. Kane, Vasilis Kontonis,  
Christos Tzamos, Nikos Zarifis

*Proceedings of the 54th Annual ACM Symposium on Theory of Computing  
STOC 2022*

**Learning a Single Neuron with Adversarial Label Noise  
via Gradient Descent**

Ilias Diakonikolas, Vasilis Kontonis, Christos Tzamos, Nikos Zarifis

*Proceedings of the 35th Annual Conference on Learning Theory  
COLT 2022*

**Learning General Halfspaces with Adversarial Label Noise  
via Online Gradient Descent**

Ilias Diakonikolas, Vasilis Kontonis, Christos Tzamos, Nikos Zarifis

*Proceedings of the 39th International Conference on Machine Learning  
ICML 2022*

**A Statistical Taylor's Theorem and Extrapolation  
of Truncated Densities**

Costis Daskalakis, Vasilis Kontonis, Christos Tzamos, Manolis Zampetakis

*Proceedings of the 34th Annual Conference on Learning Theory  
COLT 2021*

**Efficient Algorithms for Learning from Coarse Labels**

Dimitris Fotakis, Alvertos Kalavasis, Vasilis Kontonis, Christos Tzamos

*Proceedings of the 34th Annual Conference on Learning Theory  
COLT 2021*

**Agnostic Proper Learning of Halfspaces under Gaussian Marginals**

Ilias Diakonikolas, Daniel M. Kane, Vasilis Kontonis,  
Christos Tzamos, Nikos Zarifis

*Proceedings of the 34th Annual Conference on Learning Theory  
COLT 2021*

**Learning Online Algorithms with Distributional Advice**

Ilias Diakonikolas, Vasilis Kontonis, Christos Tzamos,  
Ali Vakilian, Nikos Zarifis

*Proceedings of the 38th International Conference on Machine Learning  
ICML 2021*

**A Polynomial Time Algorithm For Learning Halfspaces**

**with Tsybakov Noise**

Ilias Diakonikolas, Daniel M. Kane, Vasilis Kontonis,  
Christos Tzamos, Nikos Zarifis

*Proceedings of the 53rd Annual ACM Symposium on Theory of Computing*  
**STOC 2021**

**Learning Halfspaces with Tsybakov Noise**

Ilias Diakonikolas, Vasilis Kontonis, Christos Tzamos, Nikos Zarifis

*Proceedings of the 53rd Annual ACM Symposium on Theory of Computing*  
**STOC 2021** (Conference version merged with the above paper)

**Non-Convex SGD Learns Halfspaces with Adversarial Label Noise**

Ilias Diakonikolas, Vasilis Kontonis, Christos Tzamos, Nikos Zarifis

*Proceedings of the 34th Conference on Neural Information Processing Systems*  
**NeurIPS 2020**

**Learning Halfspaces with Massart Noise**

**Under Structured Distributions**

Ilias Diakonikolas, Vasilis Kontonis, Christos Tzamos, Nikos Zarifis

*Proceedings of the 33th Annual Conference on Learning Theory*  
**COLT 2020**

**Algorithms and SQ lower bounds for PAC Learning**

**One-Hidden-layer ReLU Networks**

Ilias Diakonikolas, Daniel M. Kane, Vasilis Kontonis, Nikos Zarifis

*Proceedings of the 33th Annual Conference on Learning Theory*  
**COLT 2020**

**Truncated Statistics with Unknown Truncation**

Vasilis Kontonis, Christos Tzamos, Manolis Zambetakis

*Proceedings of the 60th Annual IEEE Symposium on Foundations of  
Computer Science, **FOCS 2019***

**Opinion Dynamics with Limited Information**

Dimitris Fotakis, Vardis Kandiros, Vasilis Kontonis, and Stratis Skoulakis

*Proceedings of the 14th Conference on Web and Internet Economics*  
**WINE 2018**