Jessica Sorrell

	Dept of Computer Science Johns Hopkins University Malone Hall, 3400 N Charles St Baltimore, MD 21218 (617) 945-6012 jess@jhu.edu https://jess-sorrell.github.io/
RESEARCH INTERESTS	Theory of machine learning, differential privacy, algorithmic fairness, replicability, lattice-based cryptography
EMPLOYMENT	Assistant Professor, Department of Computer Science2024 - PresentJohns Hopkins University, Baltimore, MD2024 - Present
	Postdoctoral Researcher, Computer and Information Science2022-2024University of Pennsylvania, Philadelphia, PAAdvisors: Aaron Roth, Michael Kearns
EDUCATION	Doctor of Philosophy, Computer Science University of California, San Diego, 2022 Advisors: Daniele Micciancio, Russell Impagliazzo
	Master of Science, Computer Science University of California, San Diego, 2020
	Bachelor of Science, Applied Mathematics Rochester Institute of Technology, Rochester, NY, May 2015
PUBLICATIONS	Marcel Hussing, Michael Kearns, Aaron Roth, Sikata Sengupta, Jessica Sorrell. Or- acle Efficient Reinforcement Learning for Max-Value Ensembles. NeurIPS 2024.
	Eric Eaton, Marcel Hussing, Michael Kearns, Jessica Sorrell. Replicable Reinforce- ment Learning. NeurIPS 2023.
	Ira Globus-Harris, Declan Harrison, Michael Kearns, Aaron Roth, Jessica Sorrell. Multicalibration as Boosting for Regression. ICML 2023.
	Mark Bun, Marco Gaboardi, Max Hopkins, Russell Impagliazzo, Rex Lei, Toniann Pitassi, Satchit Sivakumar, Jessica Sorrell. <i>Stability is Stable: Connections between Replicability, Privacy, and Adaptive Generalization.</i> STOC 2023.
	Baiyu Li, Daniele Micciancio, Mark Schultz, Jessica Sorrell. Securing Approximate Homomorphic Encryption Using Differential Privacy. Crypto 2022.
	Russell Impagliazzo, Rex Lei, Toniann Pitassi, Jessica Sorrell. <i>Reproducibility in Learning.</i> STOC 2022.
	Ilias Diakonikolas, Russell Impagliazzo, Daniel Kane, Rex Lei, Jessica Sorrell, Christos Tzamos. <i>Boosting in the Presence of Massart Noise</i> . COLT 2021.

	Daniele Micciancio, Jessica Sorrell. Simpler, Statistically Sende Transfer from Ideals of Cyclotomic Integers. Asiacrypt 2020.	er Private Oblivious
	Mark Bun, Marco Carmosino, Jessica Sorrell. <i>Efficient, Noise-to</i> Learning via Boosting. COLT 2020.	plerant, and Private
	Matilda Backendal, Mihir Bellare, Jessica Sorrell, Jiahao Sun. The Relating the Security of Different Signature Variants. NordSec 20	he Fiat-Shamir Zoo: 018.
	Daniele Micciancio, Jessica Sorrell. <i>Ring Packing and Amortized ping.</i> ICALP 2018.	l FHEW Bootstrap-
SELECTED TALKS	Stability is Stable.Charles River Privacy Days, May 2023	
	• Simons Institute Workshop on Lower Bounds, Learning, Complexity, February 2023	and Average-Case
	Reproducibility in Learning.Chicago Junior Theorists Workshop, January 2023	
	• INFORMS, October 2022	
	• Workshop on Learning and Economics, June 2022	
	• ToC4Fairness Seminar, April 2022	
	• TCS+, April 2022	
	• IAS CSDM Seminar, January 2022	
	Ring Packing and Amortized FHEW Bootstrapping. Simons Ins Lattices: From Theory to Practice, May 2020	titute workshop on
TEACHING EXPERIENCE	Completed the Inclusive and Equitable Teaching mini-course (University of Pennsylvania)	Spring 2023
	Teaching Assistant for <i>Design and Analysis of Algorithms</i> (University of California, San Diego, CSE 101)	Spring 2022
	Teaching Assistant for <i>Computability and Complexity</i> (University of California, San Diego, CSE 200)	Fall 2021
	Teaching Assistant for New Horizons in Theoretical Computer Sec.	cience June 2021
	Teaching Assistant for Advanced Cryptography (University of California, San Diego, CSE 208)	Fall 2020
	Teaching Assistant for <i>Lattice Algorithms and Applications</i> (University of California, San Diego, CSE 206A)	Fall 2019
	Teaching Assistant for Introduction to Modern Cryptography (University of California, San Diego, CSE 107)	Spring, Fall 2019
	Instructor for <i>Algorithmic Problem Solving</i> (University of California, San Diego, Summer Program for Incom	Summer 2018 ning Students)

	Teaching Assistant for <i>Design and Analysis of Algorithms</i> (University of California, San Diego, CSE 202)	Fall 2017
	Teaching Assistant for <i>Intro Statistics II</i> (Rochester Institute of Technology, STAT 146)	Spring 2015
	Teaching Assistant for Calculus B (Rochester Institute of Technology, MATH 172)	Fall 2014
PROFESSIONAL ACTIVITIES	Organizer:Women in Machine Learning Workshop @NeurIPS 2023Women in Machine Learning Theory 2020	
	 Program Committee: IEEE Secure and Trustworthy Machine Learning 2025 IEEE Secure and Trustworthy Machine Learning 2024 Foundations of Responsible Computing 2023 IEEE Global Internet Symposium 2017 	
	Reviewer:	

- JMLR
- NeurIPS 2024
- NeurIPS ethics reviewer 2024
- FOCS 2024
- STOC 2024
- ECAI 2024
- NeurIPS 2023
- NeurIPS ethics reviewer 2023
- AISTATS 2023
- AISTATS 2023 reviewer
- FOCS 2022