## Jessica Sorrell

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RESEARCH INTERESTS	Responsible computing, algorithmic fairness, learning theory, differential privacy, lattice-based cryptography
EDUCATION	<b>Doctor of Philosophy, Computer Science</b> University of California, San Diego, 2022 Advisors: Daniele Micciancio, Russell Impagliazzo
	Bachelor of Science, Applied Mathematics Rochester Institute of Technology, Rochester, NY, May 2015
PUBLICATIONS	Mark Bun, Marco Gaboardi, Max Hopkins, Russell Impagliazzo, Rex Lei, Toniann Pitassi, Satchit Sivakumar, Jessica Sorrell. <i>Stability is Stable: Connections between</i> <i>Replicability, Privacy, and Adaptive Generalization.</i> To appear, 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 Sender Private Oblivious Transfer from Ideals of Cyclotomic Integers. Asiacrypt 2020.
	Mark Bun, Marco Carmosino, Jessica Sorrell. Efficient, Noise-tolerant, and Private Learning via Boosting. COLT 2020.
	Matilda Backendal, Mihir Bellare, Jessica Sorrell, Jiahao Sun. The Fiat-Shamir Zoo: Relating the Security of Different Signature Variants. NordSec 2018.
	Daniele Micciancio, Jessica Sorrell. Ring Packing and Amortized FHEW Bootstrapping. ICALP 2018.
PREPRINTS & MANUSCRIPTS	Ira Globus-Harris, Declan Harrison, Michael Kearns, Aaron Roth, Jessica Sorrell. Multicalibration as Boosting for Regression. In submission.
	Alan Kaminsky, Jessica Sorrell. CryptoStat: a Bayesian Statistical Testing Frame- work for Block Ciphers and MACs.

SELECTED TALKS	Stability is Stable. Simons Institute Workshop on Lower Bounds, Learning, Average-Case Complexity, February 2023		
	Reproducibility in Learning. INFORMS, October 2022		
	Reproducibility in Learning. Workshop on Learning and Economics, Ju	nne 2022	
	Simpler Statistically Sender Private Oblivious Transfer from Ideals of Cyclotomic Integers. UCSD CSE Theory Seminar, May 2020		
	Ring Packing and Amortized FHEW Bootstrapping. Simons Institute I Theory to Practice, May 2020	attices: From	
	Efficient, Noise-tolerant, and Private Learning via Boosting. UCSD CSE Theory Seminar, November 2019		
	Ring Packing and Amortized FHEW Bootstrapping. UCSD CSE The November 2018	eory Seminar,	
RESEARCH EXPERIENCE	<b>University of California, San Diego</b> , San Diego, CA, USA Lattice-based cryptography, learning theory, complexity <i>Research Assistant</i> : Advised by Russell Impagliazzo and Daniele Micc	2016 - 2022 iancio	
	<b>FACT Center, IDC</b> , Herzliyah, Israel Complexity of lattice problems <i>Research Intern</i> : Advised by Alon Rosen	Aug 2019	
	<b>Rochester Institute of Technology</b> , Rochester, NY, USA Automated grading of computer science theory assignments <i>Undergraduate Researcher</i> : Advised by Ivona Bezáková and Edith Her	Spring 2015 naspaandra	
	<b>Rochester Institute of Technology</b> , Rochester, NY, USA Bayesian statistical analysis of block ciphers and MACs Undergraduate Researcher: Advised by Alan Kaminsky	Spring 2014	
TEACHING EXPERIENCE	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 Science	June 2021	
	Teaching Assistant for Advanced Cryptography (University of California, San Diego, CSE 208)	Fall 2020	
	Teaching Assistant for Lattice Algorithms and Applications (University of California, San Diego, CSE 206A)	Fall 2019	
	Teaching Assistant for Introduction to Modern Cryptography Spr (University of California, San Diego, CSE 107)	ing, Fall 2019	
	Instructor for Algorithmic Problem Solving	Summer 2018	

	(University of California, San Diego, Summer Program for Incoming 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
INDUSTRY EXPERIENCE	<b>Dell-EMC (formerly EMC<sup>2</sup>)</b> , Hopkinton, MA, USA Software Engineer	2015 - 2016
OTHER EXPERIENCE	<b>Recurse Center</b> , New York, NY, USA Programming retreat participant	Summer 2015
PROFESSIONAL ACTIVITIES	Program Committee: Foundations of Responsible Computing	2023
	Reviewer: AISTATS	2023
	Organizer: Women in Machine Learning Theory	2020
	Program Committee: IEEE Global Internet Symposium (GI 2017)	2017
UNIVERSITY SERVICE	Graduate Women in Computing Mentor University of California, San Diego	2019
	PhD Visit Weekend Coordinator - Theory Group University of California, San Diego	2018, 2019
	Faculty Candidate Student Panel University of California, San Diego	2018