

Jinshuo Dong

Contact	Email: djs.pku@gmail.com Phone: (267)324-9493	
Research Interests	differential privacy, algorithmic game theory, statistical machine learning.	
Employment	Northwestern University / TTIC Joint postdoctoral fellow at the Institute for Data, Econometrics, Algorithms, and Learning (IDEAL)	Sep 2020 - Now
Education	University of Pennsylvania , Ph.D. in Applied Mathematics Thesis Advisor: Aaron Roth	May 2020
	Peking University , B.S. in Mathematics	July 2014
Publications	<ol style="list-style-type: none">Gaussian Differential Privacy with Aaron Roth and Weijie Su <i>To appear as discussion paper¹ in Journal of the Royal Statistical Society: Series B (JRSSB), 2021</i>A Central Limit Theorem for Differentially Private Query Answering with Weijie Su and Linjun Zhang <i>To appear in NeurIPS 2021</i>Privacy Amplification via Iteration for Shuffled and Online PNSGD with Matteo Sordello and Zhiqi Bu <i>To appear in ECML/PKDD 2021</i>Optimal Accounting of Differential Privacy via Characteristic Function with Yuqing Zhu and Yu-Xiang Wang <i>In submission</i>Rejoinder: Gaussian Differential Privacy with Aaron Roth and Weijie Su <i>To appear in Journal of the Royal Statistical Society: Series B (JRSSB), 2021</i>Deep Learning with Gaussian Differential Privacy with Zhiqi Bu, Qi Long and Weijie Su <i>Harvard Data Science Review, 2020(23), 2020</i>Sharp Composition Bounds for Gaussian Differential Privacy via Edgeworth Expansion with Qinqing Zheng, Qi Long and Weijie Su <i>In the Proceedings of ICML 2020</i>Optimal Differential Privacy Composition for Exponential Mechanisms with David Durfee and Ryan Rogers <i>In the Proceedings of ICML 2020</i>Equilibrium Characterization for Data Acquisition Games with H. Elzayn, S. Jabbari, M. Kearns, Z. Schutzman <i>In the Proceedings of IJCAI 2019</i>Strategic Classification with Revealed Preferences with A. Roth, Z. Schutzman, B. Waggoner, Z. Wu <i>In the Proceedings of EC 2018</i>Gaussian Differential Privacy and Related Techniques <i>PhD Thesis</i>	

¹Roughly comparable to best paper awards at top CS conferences

Service

As reviewer: EC 2018, STOC 2020, SODA 2021, FORC 2021, WADS 2021, MFCS 2021, FOCS 2021, NeurIPS 2021, ICLR 2022, AISTATS 2022.

Journal referee: Electronic Journal of Statistics

As program committee: Privacy in Machine Learning (PriML) 2021 COLT 2022

Handled 30+ papers in total.

Presentations

- Optimal Accounting of Differential Privacy via Characteristic Function
 - Differential privacy reading group, UC Santa Barbara Aug 2021
 - Differential privacy seminar, Google Research, Mountain View Aug 2021
- A Central Limit Theorem and Uncertainty Principle in Differential Privacy
 - Joint Statistical Meetings Aug 2021
 - Algorithms reading group, Northwestern University Sep 2021
- How Private Are Private Algorithms — A Privacy CLT
 - Youth Forum on Frontiers of Computing, Peking University Oct 2020
 - Joint Statistical Meetings Aug 2020
 - Beijing International Center for Mathematical Research (BICMR) May 2020
 - HKUST Seminar on Statistics and Data Science April 2020
 - Northwestern and TTIC Online Seminar April 2020
 - Boston University Algorithm and Theory Seminar Feb 2020
 - Northeastern CS Theory Seminar Feb 2020
 - Google NYC Research Seminar Jan 2020
 - UPenn CS Theory Seminar Jan 2020
 - NeurIPS 2019 Workshop: Privacy in Machine Learning (video) Dec 2019
- Gaussian Differential Privacy
 - Simons Institute Workshop: Beyond Differential Privacy (video) May 2019
- Strategic Classification with Revealed Preferences
 - NeurIPS 2017 Workshop: Learning in the Presence of Strategic Behavior Dec 2017

Programming Languages

Julia, Python, R, C, C++, TensorFlow, MatLab, Bash, L^AT_EX

Teaching

As teaching assistant:

AMCS 602: Graduate Numerical Linear Algebra	2016 Fall
MATH 584: Mathematics of Medical Imaging	2017 Spring
MATH 313: Undergraduate Computational Linear Algebra	2017 Spring

As recitation instructor:

MATH 502: Graduate Abstract Algebra	2015 Fall
MATH 241: Calculus IV: Applied PDE	2016 Spring

References

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