

# He Jia

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## RESEARCH INTERESTS

- Machine Learning Theory, High dimensional Learning, Robust Statistics, Sampling

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## EDUCATION

### Georgia Institute of Technology

*Ph.D. in Algorithms, Combinatorics and Optimization (Computer Science)*

Advisor: Santosh Vempala; GPA: 3.95/4

Atlanta, GA

*Aug. 2018 – Now*

*Anticipated graduation dates: May. 2023*

### Hong Kong University of Science and Technology

*BSc in Computer Science and Mathematics (Pure Math Advanced); GPA: 3.93/4.3*

Hong Kong

*Sept. 2014 – May 2018*

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## SKILLS

**Programming Languages:** C++, Python, Java, Javascript, R

**Technologies:** TensorFlow, MATLAB, Mathematica, AWS, Pandas

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## WORK EXPERIENCE

### Intel

*Machine Learning Intern*

San Jose, CA

*Jan. 2022 – Dec. 2022*

- Trained a set of machine learning models to predict the status of the SSD drives using time-series data from Alibaba and Dell.
- Combined different kinds of deep learning models, which improved the accuracy of predictions in both long and short timescale.

### Adobe Research

*Data Science Lab Intern*

San Jose, CA

*May 2019 – Aug. 2019*

- Developed machine learning algorithms that can tolerate a constant fraction of corrupted data points or other small departures from model assumptions.
- Improved the robustness of current algorithms on learning intersection of halfspaces.

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## PUBLICATIONS AND WORKING PAPERS

- *Reducing Isotropy and Volume to KLS: An  $O(n^3\psi^2)$  Volume Algorithm*, [H. Jia](#), A. Laddha, Y. Lee, S. Vempala, in Proceedings of the 53rd Annual ACM Symposium on Theory of Computing (STOC 2021).
- *Robustly Learning Mixtures of  $k$  Arbitrary Gaussians*, A. Bakshi, I. Diakonikolas, [H. Jia](#), D. Kane, P. Kothari, S. Vempala, in Proceedings of the 54th Annual ACM Symposium on Theory of Computing (STOC 2022).
- *Beyond Moments: Robustly Learning Affine Transformations with Asymptotically Optimal Error*, [H. Jia](#), P. Kothari, S. Vempala, arXiv preprint: 2302.12289.

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## PROFESSIONAL SERVICE

- Organizer of ACO Student Seminar, Georgia Tech

*2019 – 2021*

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## HONORS AND AWARDS

- Dean's List
- HKSAR Government Scholarship Fund - Reaching Out Award
- University's Scholarship Scheme for Continuing Undergraduate Students
- ARC-TRIAD Fellowship

*2014-15, 2015-16 & 2016-17*

*Summer 2015*

*2015-16 & 2016-17*

*Spring 2021*