

Du CHEN (陈督)

[[Google Scholar](#)] [[LinkedIn](#)] [[GitHub](#)] [[Personal Page](#)]

Research Interests

Topics: Private Optimization for Machine Learning and AI, Privacy-Aware Operations Management

Methodologies: Convex Optimization, Differential Privacy

Academic Experience

Assistant Professor of Operations Management 2026.6 – present
School of Economics and Management, Tongji University, Shanghai, China

Education

Nanyang Technological University, Singapore 2021.8 – 2026.5
PhD in Operations Management

Shanghai Jiao Tong University, Shanghai, China 2017.9 – 2021.3
MSc in Management Science and Engineering

Xi'an University of Electronic Science and Technology, Xi'an, China 2013.9 – 2017.6
BSc in Information Management and Information Systems

Selected Publications

1. **Du Chen**, Geoffrey A. Chua*. *An Algorithmic Approach to Managing Supply Chain Data Security: The Differentially Private Newsvendor* [[Publication](#)]
- **Operations Research**, 2026
2. **Du Chen***, Geoffrey A. Chua. *Exploiting Hidden Symmetry to Improve Objective Perturbation for DP Linear Learners with a Nonsmooth L1-Norm* [[Paper](#)]
- Proceedings of the 13th International Conference on Learning Representations (**ICLR 2025**)
3. **Du Chen***, Geoffrey A. Chua. *Noisy Dual Mirror Descent: A Near Optimal Algorithm for Jointly-DP Convex Resource Allocation* [[Paper](#)]
- Proceedings of the 38th Conference on Neural Information Processing Systems (**NeurIPS 2024**)
4. **Du Chen***, Geoffrey A. Chua. *Differentially Private Stochastic Convex Optimization under a Quantile Loss Function* [[Paper](#)]
- Proceedings of the 40th International Conference on Machine Learning (**ICML 2023**)

Working Papers

1. **Du Chen**, Youhua (Frank) Chen*, Geoffrey A. Chua. *Design and Analysis of Algorithms for Privacy-Aware Online Allocation under Heterogeneous Privacy Expectations* [[Preprint](#)]
- Major Revision at **Operations Research**, Feb 2026
2. **Du Chen**, Geoffrey A. Chua, Victor Richmond R. Jose*. *Jointly Differentially Private Convex Optimization under Capacity Constraints* [[Preprint](#)]
- Under Review at **Operations Research**

Selected Talks

- **An Algorithmic Approach to Managing Supply Chain Data Security: The Differentially Private Newsvendor**
 - 2025-07, 2025 INFORMS International Conference, Singapore
 - 2024-07, The 33rd European Conference on Operational Research, Copenhagen, Denmark
 - 2024-01, The 14th POMS-HK International Conference (POMS-HK 2024), Hong Kong, China
 - 2023-01, The 13th POMS-HK International Conference (POMS-HK 2023), Hong Kong, China
- **Jointly Differentially Private Convex Optimization under Capacity Constraints**
 - 2025-10, 2025 INFORMS Annual Meeting, Atlanta, USA
 - 2025-07, 2025 INFORMS International Conference, Singapore
 - 2025-06, 2025 INFORMS MSOM Conference, London, UK
 - 2025-06, The 34th European Conference on Operational Research, Leeds, UK
 - 2025-05, Singapore Rising Scholars Conference, Singapore
 - 2024-10, 2024 INFORMS Annual Meeting, Seattle, USA
- **Design and Analysis of Algorithms for Privacy-Aware Online Allocation under Heterogeneous Privacy Expectations**
 - 2025-10, 2025 INFORMS Annual Meeting, Atlanta, USA
- **Exploiting Hidden Symmetry to Improve Objective Perturbation for DP Linear Learners with a Nonsmooth L1-Norm**
 - 2025-04, ICLR 2025, Singapore
- **Noisy Dual Mirror Descent: A Near Optimal Algorithm for Jointly-DP Convex Resource Allocation**
 - 2024-12, NeurIPS 2024, Vancouver, Canada
- **Differentially Private Stochastic Convex Optimization under a Quantile Loss Function**
 - 2023-07, ICML 2023, Hawaii, USA

Teaching Experience

Nanyang Technological University Singapore

- Instructor

Statistics & Analysis (BSc in Business, Core), 2025 Spring; 2026 Spring

- Teaching Assistant

Operations & Supply Chains (REP Programme), 2022 Fall, 2023 Fall, 2024 Fall

Supply Chain Analytics (BSc in Business, Elective), 2023 Spring, 2024 Spring

Teaching Case: Huan Zheng, Yuanzheng Ma, **Du Chen**, Stephan Vachon. "Goodbaby Group: The Upfront Warehouse Decision", 9B20D018, Ivey Publishing, 2020 [\[Link\]](#)

Industry Experience

Alibaba Group, Hangzhou, China

2020.4 – 2020.7 / 2021.3 – 2021.7

Operations Research Algorithm Intern / Engineer

Meituan, Beijing, China

2020.7 – 2020.9

Algorithm Engineer Intern

Professional Service

Reviewer for

ICLR (2025, 2026), NeurIPS (2025, 2026)