

# YAN DAI

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🏠 diamond-duke.github.io

## EDUCATION

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INSTITUTE FOR INTERDISCIPLINARY INFORMATION SCIENCES,  
**Tsinghua University**, Beijing, China

Sept. 2020 – Present

Computer Science and Technology (Special Pilot Class in CS, **a.k.a.** Yao Class).

GPA: 3.99/4.00; Selected course grades listed below.

## EXPERIENCE

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**LIDS**, MASSACHUSETTS INSTITUTE OF TECHNOLOGY (Cambridge, MA, USA)

Spring, 2023

Visiting student, hosted by Prof. SUVRIT SRA.

**Computer Science Department**, UNIVERSITY OF SOUTHERN CALIFORNIA

Spring – Fall, 2022

Remote visitor, advised by Prof. HAIPENG LUO.

**Paul G. Allen School**, UNIVERSITY OF WASHINGTON

Winter, 2022

Remote visitor, advised by Prof. SIMON S. DU.

**IIIS**, TSINGHUA UNIVERSITY (Beijing, China)

Summer – Fall, 2021

Research assistant, hosted by Prof. LONGBO HUANG.

## PUBLICATIONS

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(\* stands for equal contribution. Listed in reverse chronological order.)

### Manuscripts

- [5] [YAN DAI](#), HAIPENG LUO, CHEN-YU WEI, and JULIAN ZIMMERT. “Refined Regret for Adversarial MDPs with Linear Function Approximation.” *In submission*. [PDF]
- [4] JIATAI HUANG\*, [YAN DAI](#)\*, and LONGBO HUANG. “Banker Online Mirror Descent: A Universal Approach for Delayed Online Bandit Learning.” *In submission*. [PDF]

### Conference Publications

- [3] (**ICLR 2023**) [YAN DAI](#), RUOSONG WANG, and SIMON S. DU. “Variance-Aware Sparse Linear Bandits.” In *the Eleventh International Conference on Learning Representations (ICLR)*, 2023. [PDF] [OpenReview]
- [2] (**NeurIPS 2022**) [YAN DAI](#), HAIPENG LUO, and LIYU CHEN. “Follow-the-Perturbed-Leader for Adversarial Markov Decision Processes with Bandit Feedback.” In *Advances in Neural Information Processing Systems 35 (NeurIPS)*, 2022. [PDF] [OpenReview] [Proceeding]
- [1] (**ICML 2022**) JIATAI HUANG\*, [YAN DAI](#)\*, and LONGBO HUANG. “Adaptive Best-of-Both-Worlds Algorithm for Heavy-Tailed Multi-Armed Bandits.” In *Proceedings of the 39th International Conference on Machine Learning (ICML)*, PMLR 162:9173-9200, 2022. [PDF] [Proceeding]

## ACADEMIC SERVICES

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**Conference Reviewing:** AISTATS 2022, NeurIPS 2022, AISTATS 2023, ALT 2023, ICML 2023.

## SELECTED AWARDS

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### Scholarship

- National Scholarship (*top scholarship in China; 0.2% domestically*), Ministry of Education 2022
- SenseTime AI Scholarship (*30 undergrads domestically*), SenseTime. 2022
- 12-9 Scholarship (*top scholarship in Tsinghua; 1 student per department*), Tsinghua University 2021

### Competitive Programming

- Gold Medal (*1st place with perfect score*), Asia-Pacific Informatics Olympiad (APIO) 2019
- Gold Medal (*5th place*), Chinese National Olympiad in Informatics (NOI) 2018

Miscellaneous

- 2nd Place, National Collegiate Water Polo Championships 2021
- 1st Place in Men’s 100m Butterfly @ Tsinghua Swimming Competition 2022
- 1st Place in MIT Intramurals Water Polo League (IM League) 2023

SELECTED COURSE GRADES

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• Game Theory	A+	• Causal and Statistical Learning	A+
• Theory of Computation	A+	• Linear Algebra	A+
• Formal Languages and Automata	A+	• Introduction to Computer Science	A+
• Advanced Computer Graphics	A+	• Computer Architecture	A+