

# YAN DAI / DAI YAN

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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.

DEPARTMENT OF MATHEMATICS SCIENCES,  
TSINGHUA UNIVERSITY, Beijing, China

Sept. 2021 – Present

Mathematics and Applied Mathematics (Minor).

## VISITING AND INTERNSHIP

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COMPUTER SCIENCE DEPARTMENT, UNIVERSITY OF SOUTHERN CALIFORNIA (Remote)

Spring, 2022

Visiting student, advised by Prof. HAIPENG LUO.

PAUL G. ALLEN SCHOOL OF CSE, UNIVERSITY OF WASHINGTON (Remote)

Winter, 2022

Visiting student, advised by Prof. SIMON S. DU.

INSTITUTE FOR INTERDISCIPLINARY INFORMATION SCIENCES, TSINGHUA (Beijing)

Summer, 2021

Research assistant, hosted by Prof. LONGBO HUANG.

## PUBLICATIONS

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

### Manuscripts

[4] YAN DAI, RUOSONG WANG, and SIMON S. DU. “Variance-Aware Sparse Linear Bandits.” *In submission*. [PDF]

[3] JIATAI HUANG\*, YAN DAI\*, and LONGBO HUANG. “Scale-Free Adversarial Multi-Armed Bandit with Arbitrary Feedback Delays.” *In submission*. [PDF]

### Conference Papers

[2] (**NeurIPS 2022**) YAN DAI, HAIPENG LUO, and LIYU CHEN. “Follow-the-Perturbed-Leader for Adversarial Markov Decision Processes with Bandit Feedback.” To appear in *Advances in Neural Information Processing Systems 36* (NeurIPS), 2022. [PDF]

[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] [Proc.]

## SELECTED AWARDS

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- National Scholarship (*0.2% domestically*), Ministry of Education of China 2022
- 12-9 Scholarship (*top scholarship; 1 student per department*), Tsinghua University 2021
- Gold Medal (*5th place*), Chinese National Olympiad in Informatics (NOI) 2018
- 2nd Place, National Collegiate Water Polo Championships 2021

## SELECTED COURSE GRADES

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

## SERVICES

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CONFERENCE REVIEWING: AISTATS 2022, NeurIPS 2022, AISTATS 2023