

# 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, UNIVERSITY OF WASHINGTON (Remote)

Winter, 2022

Visiting student, 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.)

### Manuscripts

- **Follow-the-Perturbed-Leader for Adversarial Markov Decision Processes with Bandit Feedback** [arXiv]  
YAN DAI, HAIPENG LUO, and LIYU CHEN. *In submission.*
- **Variance-Aware Sparse Linear Bandits** [arXiv]  
YAN DAI, RUOSONG WANG, and SIMONG S. DU. *In submission.*
- **Scale-Free Adversarial Multi-Armed Bandit with Arbitrary Feedback Delays** [arXiv]  
JIATAI HUANG\*, YAN DAI\*, and LONGBO HUANG. *In submission.*

### Conference Papers

- **Adaptive Best-of-Both-Worlds Algorithm for Heavy-Tailed Multi-Armed Bandits** [arXiv] [Proc.]  
JIATAI HUANG\*, YAN DAI\*, and LONGBO HUANG.  
*Thirty-ninth International Conference on Machine Learning (ICML 2022).*

## SELECTED AWARDS

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- 12-9 Scholarship (*awarded to only 1 sophomore 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