SHI FENG

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EDUCATION

Harvard University *Aug 2023 - Jul 2028 (expected)*
Ph.D in Computer Science, advised by Prof. Yiling Chen

Tsinghua University *Aug 2019 - Jun 2023 (expected)*
B.E in Computer Science, selected to Yao Class
- GPA: 3.88/4.0
- GRE Scores: Verbal Reasoning 157, Quantitative Reasoning 170, Analytical Writing 4.0
- TOEFL Best Scores: Reading 30, Listening 29, Speaking 22, Writing 29
- Selected Courses: Introduction to AI (A), Mathematics for Computer Science (A), Causal and Statistical Learning (A+), Abstract Algebra (A), Introduction to Databases (A+), Artificial Intelligence: Principles and Techniques (A), Theory of Computation (A), Distributed and Blockchain System (A-), Machine Learning (A), Operating System (A), Research Immersion Training (A+), Research Practice (A)

RESEARCH INTERESTS

Theoretical computer science and economics, particularly algorithmic game theory, machine learning theory, causality, and network science.

APPOINTMENTS

Research Intern, Microsoft Research Asia Theory Center *Dec 2022 - present*
Research Intern, Institute for Interdisciplinary Information Sciences, Tsinghua University *Aug 2022 - present*
Research Intern, EconCS Group, Harvard University *Feb 2022 - Aug 2022*
Research Intern, Microsoft Research Asia Theory Center *Nov 2020 - Jan 2022*

PUBLICATIONS

(* denotes equal contribution)

Shi Feng, Wei Chen. Combinatorial Causal Bandits.
The 37th AAAI Conference on Artificial Intelligence (AAAI 2023).
[arXiv] [video] [slides] [code]

Shi Feng, Fang-Yi Yu, Yiling Chen. Peer Prediction for Learning Agents.
The 36th Conference on Neural Information Processing Systems (NeurIPS 2022).
[arXiv] [video] [slides] [code]

Shi Feng, Wei Chen. Causal Inference for Influence Propagation–Identifiability of the Independent Cascade Model.
The 10th International Conference on Computational Data and Social Networks (CSoNet 2021) **Best Paper**.
[arXiv] [slides] [publication]

Shi Feng*, Nuoya Xiong*, Wei Chen. Causal Bandits with Unknown Graph Skeleton.
In submission.
[arXiv]

Shi Feng*, Zimeng Song*, Weijie Su, Yuhao Wang. Multi-Agent Owner-Assisted Scoring Mechanisms.
Writing in progress.
[slides]

SELECTED HONORS & AWARDS

Comprehensive Excellence Awards *(top 10%)* *Oct 2020, Oct 2022*, THU
"Star of Tomorrow" Award of Excellence *Mar 2022*, MSR Asia
Best Paper Award *(1/57)* *Nov 2021*, CSoNet
Innovation Excellence Award *Oct 2021*, THU
Social Practice Excellence Award *Oct 2021*, THU
"Challenge Cup" Science and Technology Competition, Top Grade Prize *(top 3%)* *Apr 2021*, THU
Freshman Scholarship *(top 10%)* *Oct 2019*, THU
Tsinghua Xuetang Scholarship *Aug 2019*, THU
Russian Mathematical Olympiad, Silver Medal *Apr 2019*, MSE of Russia
Chinese Mathematical Olympiad, Gold Medal *Nov 2018*, CMS
National High School Mathematics League, First Prizes *Sept 2016, Sept 2017, Sept 2018*, CMS

TALKS

MSRA Theory Seminar, Large Language Models: Current Theoretical Analysis and Future Directions *Mar 2023*
MSRA Online Paper Sharing, Combinatorial Causal Bandits *Mar 2023*
AAAI 2023, Combinatorial Causal Bandits *Feb 2023*
NeurIPS 2022, Peer Prediction for Learning Agents *Oct 2022*
Yao Class Seminar, Peer Prediction for Learning Agents *Sept 2022*
CSoNet 2021, Causal Inference for Influence Propagation–Identifiability of the Independent Cascade Model *Nov 2021*

SERVICES

Reviewer, International Conference on Machine Learning (ICML) *Mar 2023*
Teaching Fellow, Network Science: Theory and Algorithms, Tsinghua University *Feb 2023 - present*
Class Leader, Yao Class 91, Tsinghua University *Aug 2022 - present*
Reviewer, Journal of Combinatorial Optimization (JOCO) *May 2022*
Team Member, Chinese national team for Russian Mathematical Olympiad *Apr 2019*

SKILLS

Programming Languages: C/C++, Python, Golang, SQL, assembly language, Bash, HTML
Professional Applications: Latex, Mathematica, Matlab, PyTorch, TensorFlow, Git
Languages: Chinese (native language), English (fluent)