David Zeng

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EDUCATION

Carnegie Mellon University   2015 – 2019
BS Computer Science   *3.96/4.00*

PUBLICATIONS

Conference Papers

3. *Fairness-Efficiency Tradeoffs in Dynamic Fair Division*
   David Zeng and Alex Psomas
   In the 21st ACM Conference on Economics and Computation (**EC**), 2020.

2. *Green Security Game with Community Engagement*
   Taoan Huang, Weiran Shen, David Zeng, Tianyu Gu, Rohit Singh, Fei Fang
   In the 19th International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), 2020.

1. *Achieving a Fairer Future by Changing the Past*
   Jiafan He, Ariel D. Procaccia, Alexandros Psomas, David Zeng.
   In the 28th International Joint Conference on Artificial Intelligence (**IJCAI**), 2019.

TALKS

Fairness-Efficiency Tradeoffs in Dynamic Fair Division
Drexel University Theory Reading Group   *May 2020*

TEACHING EXPERIENCE

Carnegie Mellon University
Teaching Assistant for Great Ideas in Theoretical Computer Science (15-251)   *Aug 2017 - May 2019*
Teaching Assistant for Mathematical Foundations for Computer Science (15-151)   *Aug 2016 - Dec 2016*

WORK EXPERIENCE

Two Sigma Securities   Aug 2019 – Present
Software Engineer - High Frequency Market Making

- Built and improved on research platform for evaluating marginal PnL contribution of forecast signals.
- Implemented and evaluated optimizations to reduce tick to trade latency.

PROJECTS

Visual Dialog Agent   **Paper**

- Explored improvements to conversational AI model performance on the Visual Dialog dataset

Learning in Multi-Agent Games   **Paper**

- Worked on reinforcement learning approach to learn approximate Nash Equilibrium in imperfect information multi-agent games