

YE WANG

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RESEARCH INTERESTS

Blockchain, financial technologies, human-computer interaction, security, game theory.

EDUCATION

ETH Zurich

September 2019 - February 2023 (Expected)

Ph.D. in Computer Science

Supervisor: Roger Wattenhofer

ETH Zurich

September 2016 - August 2018

Master of Science in Robotics, Systems and Control

Thesis: *Non-decreasing Payment Rules in Combinatorial Auctions.*

Advisor: Sven Seuken

Peking University

September 2011 - July 2015

Bachelor of Science in Microelectronics with Minor in German Language and Literature

PUBLICATIONS

1. Ye Wang, Zuest Partick, Yaxing Yao, Zhicong Lu, Roger Wattenhofer. Impact and User Perception of Sandwich Attacks in the DeFi Ecosystem. *ACM Conference on Human Factors in Computing Systems 2022 (CHI'22)*.
2. Ye Wang, Yan Chen, Haotian Wu, Liyi Zhou, Shuiguang Deng, Roger Wattenhofer. Cyclic Arbitrage in Decentralized Exchanges. *The Web Conference 2022, Industry Track (WWW'22)*.
3. Ye Wang, Zhicong Lu and Roger Wattenhofer. Gay Dating on Non-dating Platforms: The Case of Online Dating Activities of Gay Men on a Q&A Platform. *25th ACM Conference On Computer Supported Cooperative Work And Social Computing (CSCW'22)*.
4. Pankaj Khanchandani, Jan Schaeppi, Ye Wang and Roger Wattenhofer. On Consensus Number 1 Objects. *27th IEEE International Conference on Parallel and Distributed Systems (ICPADS'21)*.
5. Lioba Heimbach, Ye Wang and Roger Wattenhofer. Behavior of Liquidity Providers in Decentralized Exchanges. *2021 Crypto Valley Conference on Blockchain Technology (CVCBT'21)*.
6. Ye Wang, Yan Chen, Shuiguang Deng and Roger Wattenhofer. Cyclic Arbitrage in Decentralized Exchange Markets. *1st Workshop on Decentralized Finance (DeFi'21)*.
7. Ye Wang and Roger Wattenhofer. Asynchronous Byzantine Agreement in Incomplete Networks. *2nd ACM Conference on Advances in Financial Technologies (AFT'20)*.
8. Vitor Bosshard, Ye Wang, and Sven Seuken. Non-decreasing Payment Rules for Combinatorial Auctions. *27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI'18)*.

WORKING PAPERS

1. Ye Wang, Zhicong Lu, Peng Cao, Jingyi Chu, Haonan Wang and Roger Wattenhofer. How Live Streaming Changes Shopping Decisions in E-commerce: A Study of Live Streaming Commerce. *revise and resubmit at European Conference on Computer-Supported Cooperative Work (ECSCW)*.
2. Agostino Capponi, Ruizhe Jia, Ye Wang. The Evolution of Blockchain: from Lit to Dark. *submit to Journal of Financial Economics (JFE)*

3. Liyi Zhou, Xihan Xiong, Jens Ernstberger, Zhipeng Wang, Kaihua Qin, Ye Wang, Arthur Gervais. SoK: Decentralized Finance Attacks. *submit to IEEE Symposium on Security and Privacy (IEEE S&P)*
4. Robin Fritsch, Adrian Meier, Ye Wang and Roger Wattenhofer. Understanding the Relationship Between Core Constraints and Core-Selecting Payment Rules in Combinatorial Auctions. *submit to International Colloquium on Automata, Languages and Programming (ICALP)*
5. Ye Wang, Chenhang Zhou, Yu Chen, Shenyi Wang, Xiaochen Zheng, Roger Wattenhofer. Print Your Own Money: A Cash-Like Experience for Digital Payment Systems. *available at: <https://arxiv.org/abs/2104.10480>*

TALKS

1. **ICPADS** Conference Talk, Zoom, December 2021
On Consensus Number 1 Objects.
2. **Crypto and Blockchain Economics Research Forum** Invited Talk, Zoom, September 2021
Cyclic Arbitrage in Decentralized Exchange Markets.
3. **DeFi** Conference Talk, Zoom, March 2021
Cyclic Arbitrage in Decentralized Exchange Markets.
4. **AFT** Conference Talk, Zoom, September 2020
Asynchronous Byzantine Agreement in Incomplete Networks.

TEACHING

ETH Zurich

Teaching Assistant

- Discrete Event Systems Fall 2021, Fall 2020, Fall 2019
- Principles of Distributed Computing Spring 2021, Spring 2020
- Computational Thinking Fall 2020
- Seminar in Deep Reinforcement Learning Spring 2020
- Algorithmic Game Theory Fall 2017

EPFL

Teaching Assistant

- Probabilities and Statistics Spring 2019

MENTORING

Haotian Wu, Bachelor in Economics, Xi'an Jiao Tong University	2021
Junjie Hu, Master in Information Security, Xi'an Jiao Tong University	2021
Andrina Arnold, Bachelor in Computer Science, ETH Zurich	2021
Stuart Heeb, Bachelor in Computer Science, ETH Zurich	2021
Yves Zumbach, Master in Computer Science, ETH Zurich	2021
Patrick Zuest, Bachelor in Computer Science, ETH Zurich	2021
Fabian Auf der Maur, Bachelor in Computer Science, ETH Zurich	2021
Tim Gretler, Bachelor in Computer Science, ETH Zurich	2020
Alain Gautschi, Bachelor in Computer Science, ETH Zurich	2020
Yuqiao Wang, Master in Electrical Engineering, ETH Zurich	2020
Nami Hekmat, Master in Electrical Engineering, ETH Zurich	2020
Jan Schaeppi, Master in Electrical Engineering, ETH Zurich	2020
Adrian Meier, Master in Computer Science, ETH Zurich	2020

SKILLS

Programming Languages
Languages

Python, C/C++, Verilog, Matlab
Chinese(Native), English(Advanced), German(Basic)

HONORS AND AWARDS

EDIC Conference Travel Grants	EPFL, 2018
IJCAI-18 Travel Grants	2018
EDIC Ph.D. Fellowship	EPFL, 2018
Birkigt Scholarship	ETH Zrich, 2018
School Scholarships for Merit Students	Peking University, 2011-2015
Admission to Peking University without Gaokao (14/540,000)	2011

SERVICE

Conference Review

WWW 2021

USENIX ATC 2021

CCS 2021

AFT 2021, 2020

FC 2021, 2020

EuroSys 2020

SIROCCO 2020

Volunteering

IJCAI, Student Volunteer, 2018