

Bing-Jyue Chen

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Current research interests

Verifiable Machine Learning, Zero Knowledge Machine Learning

Education

University of Illinois Urbana-Champaign (UIUC)

Champaign, IL, United States

PHD STUDENT IN COMPUTER SCIENCE

Aug. 2023 –

- Advisor: Prof. Daniel Kang

National Taiwan University (NTU)

Taipei, Taiwan

MASTER OF SCIENCE IN COMMUNICATION ENGINEERING

Sep. 2019 – Jun. 2021

- Advisor: Prof. Tsungnan Lin
- Investigated browser fingerprinting-based anomaly detection and the blockchain scalability.

National Taiwan University (NTU)

Taipei, Taiwan

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Sep. 2015 – Jun. 2019

- Leader of NTU Sunrise, the oldest Buddhist club in Taiwan.

Publications

- [1] **Bing-Jyue Chen**, Ting-Han Jian, and Tsungnan Lin. 2021. B++: A High-Throughput Proof-of-Work based Blockchain with Eventual Consistency. 2021 IEEE International Conference on Communications (ICC).
- [2] **Bing-Jyue Chen**, Wun-Cing Liou, Hsing-Yu Shih, and Tsungnan Lin. 2021. DRAGON: Detection of Related Account Groups for Online services with uncertain graphs. 2021 IEEE Global Communications Conference (GLOBECOM).
- [3] **Bing-Jyue Chen** and De-Nian Yang. 2022. User Recommendation in Social Metaverse with VR. In Proceedings of the 31st ACM International Conference on Information & Knowledge Management (CIKM).
- [4] Maciej Styczen, **Bing-Jyue Chen**, Ya-Wen Teng, Yvonne-Anne Pignolet, Lydia Chen, and De-Nian Yang. 2022. Targeted Influence with Community and Gender-Aware Seeding. In Proceedings of the 31st ACM International Conference on Information & Knowledge Management (CIKM).

Teaching Experiences

Fall 2018 - Spring 2021 **Networking and Multimedia Lab (EE3002), Teaching Assistant** for guiding undergraduates to design applications on blockchain platforms (e.g., Ethereum).

Taipei, Taiwan

Work Experiences

Institute for Information Industry

Taipei, Taiwan

RESEARCH INTERN

Jul. 2017 – Nov. 2017

- Studied the next-generation blockchain techniques and designed blockchain applications.

Institute of Information Science at Academia Sinica

Taipei, Taiwan

RESEARCH ASSISTANT

Oct. 2021 – Now

- Advisor: Prof. De-Nian Yang
- Proposed a social-aware deep graph neural network that recommends attractive and non-occluded avatars for metaverse users.

Awards, Fellowships, & Grants

2021	Student Grant , IEEE ICC Honorable Mention for Outstanding Master Thesis , The institution of engineering and technology (IET)	USD 350
2020	The High Distinct Thesis Award , Alumni of NTU Sunrise	USD 1700
2018	Excellent Thesis Award , Alumni of NTU Sunrise	USD 1000
2017	Excellent Thesis Award , Alumni of NTU Sunrise FarEastTone Bussiness Award , MakeNTU	USD 1000 USD 500
2016	Silver Award , BIOMOD. Our website: https://biomod2016.gitlab.io/taiwan/ Honorable Mentioned Thesis Award , Alumni of NTU Sunrise	USD 300

Programming skills

- Machine learning: Python (PyTorch, PyG, sklearn, numpy, etc.)
- Blockchain: Rust, Golang, Solidity
- Others: Unity3D (C#), React (Javascript), C++, Verilog