Bing-Jyue Chen

■ bjchen4@illinois.edu | ★ https://vimalakirti.github.io | Google Scholar: Bing-Jyue Chen

Research interest	
Zero Knowledge Machine Learning (ZKML)	
Education	
University of Illinois Urbana-Champaign (UIUC) PHD STUDENT IN COMPUTER SCIENCE • Design and construct ZKML frameworks with practical prover overhead.	Urbana, IL, United States Aug. 2023 –
National Taiwan University (NTU) MASTER OF SCIENCE IN COMMUNICATION ENGINEERING • Investigated browser fingerprinting-based anomaly detection and the blockchain scalability.	Taipei, Taiwan Sep. 2019 - Jun. 2021
National Taiwan University (NTU) BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING • Leader of NTU Sunrise, the oldest Buddhist club in Taiwan.	Taipei, Taiwan Sep. 2015 - Jun. 2019
Publications	
[1] Bing-Jyue Chen , Ting-Han Jian, and Tsungnan Lin. 2021. B++: A High-Throughput Proof-of Eventual Consistency. 2021 IEEE International Conference on Communications (ICC).	-Work based Blockchain with
[2] Bing-Jyue Chen , Wun-Cing Liou, Hsing-Yu Shih, and Tsungnan Lin. 2021. DRAGON: Detection for Online services with uncertain graphs. 2021 IEEE Global Communications Conference	
[3] Bing-Jyue Chen and De-Nian Yang. 2022. User Recommendation in Social Metaverse with ACM International Conference on Information & Knowledge Management (CIKM).	/R. In Proceedings of the 31st
[4] Maciej Styczen, Bing-Jyue Chen , Ya-Wen Teng, Yvonne-Anne Pignolet, Lydia Chen, and D Influence with Community and Gender-Aware Seeding. In Proceedings of the 31st ACM Information & Knowledge Management (CIKM).	
[5] Bing-Jyue Chen , Chiok Yew Ho, and De-Nian Yang. 2024. AFTER: Adaptive Friend Discov Social-aware XR. 2024 IEEE International Conference on Data Engineering (ICDE).	ery for Temporal-spatial and
[6] Bing-Jyue Chen , Suppakit Waiwitlikhit, Ion Stoica, and Daniel Kang. 2024. ZKML: An Optim in Zero-Knowledge Proofs. In Proceedings of the 19th European Conference on Compute	
Preprint(s)	
[1] Bing-Jyue Chen , Lilia Tang, and Daniel Kang. 2025. ZKTorch: Compiling ML Inference to Parallel Proof Accumulation. arXiv.	o Zero-Knowledge Proofs via
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, Academia Sinica

Taipei, Taiwan

RESEARCH ASSISTANT

Oct. 2021 - Jun. 2023

• Proposed a social-aware deep graph neural network that recommends attractive and non-occluded avatars for metaverse

University of Illinois Urbana, Illinois

RESEARCH ASSISTANT

Aug. 2023 - May. 2025

• Designed efficient zero knowledge machine learning framework.

Foster City, California Visa Research

STAFF RESEARCH SCIENTIST

May. 2025 - Aug. 2025

• Designed practical ZK tools for Visa.

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.)
- ZK and Blockchain: Rust, Golang, Solidity
- Others: Unity3D (C#), React (Javascript), C++, Verilog