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 scalab	Taipei, Taiwar Sep. 2019 – Jun. 2021 pility.
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 Pr Eventual Consistency. 2021 IEEE International Conference on Communications (IC	
[2] Bing-Jyue Chen , Wun-Cing Liou, Hsing-Yu Shih, and Tsungnan Lin. 2021. DRAGON: D for Online services with uncertain graphs. 2021 IEEE Global Communications Conf	
[3] Bing-Jyue Chen and De-Nian Yang. 2022. User Recommendation in Social Metaverse ACM International Conference on Information & Knowledge Management (CIKM).	e with VR. In Proceedings of the 31st
[4] Maciej Styczen, Bing-Jyue Chen , Ya-Wen Teng, Yvonne-Anne Pignolet, Lydia Chen, Influence with Community and Gender-Aware Seeding. In Proceedings of the 31s Information & Knowledge Management (CIKM).	
[5] Bing-Jyue Chen , Chiok Yew Ho, and De-Nian Yang. 2024. AFTER: Adaptive Friend Social-aware XR. 2024 IEEE International Conference on Data Engineering (ICDE).	Discovery for Temporal-spatial and
[6] Bing-Jyue Chen , Suppakit Waiwitlikhit, Ion Stoica, and Daniel Kang. 2024. ZKML: An in Zero-Knowledge Proofs. In Proceedings of the 19th European Conference on Co	
Preprint(s)	
[1] Bing-Jyue Chen , Lilia Tang, and Daniel Kang. 2025. ZKTorch: Compiling ML Inference Parallel Proof Accumulation. arXiv.	ence to Zero-Knowledge Proofs via
[2] Bing-Jyue Chen , Lilia Tang, David Heath, and Daniel Kang. 2025. Linear-time and I and Multiset SNARKs. Cryptology ePrint Archive.	Logarithmically-sound Permutation
Teaching Experiences	
Spring 2021 Networking and Multimedia Lab (EE3002), Teaching Assistant for guide undergraduates to design applications on blockchain platforms (e.g., Etheral 2021)	lainei laiwar

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(s).

Foster City, California Visa Research

STAFF RESEARCH SCIENTIST

May. 2025 - Aug. 2025

• Designed practical zkSNARK protocols 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