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Education

Master of Science Artificial Iintelligence

09/2023 - Current

Guangzhou, China

- **Guangzhou University**
- Thesis: Research on Score-based Black Box Adversarial Attacks
- Coursework in Pattern Recognition, Machine Learning, Privacy Preservation, Intercultural Communication, Modern Cryptography, Lectures on Frontier of Research, Blockchain Technology and Practice.etc.
- **GPA:**85.88/100

Bachelor of Science Computer Science and Technology **Jilin University**

09/2019 - 06/2023

Jilin, China

- Thesis: Research and Implementation of Acceleration Methods for Deep Binary Neural Networks on Multi-core and GPU
- Coursework in Foundation of Computer Science, Calculus A, Linear Algebra, Discrete Mathematics, Algorithm Design and Analysis, Computer Organization, Data Structure, Computer Architecture, etc.
- **GPA:** 81.61/100

Publications

- Yang, Y., Liang, X., Song, X., Dong, Y., Huang, L., Ren, H., Dong, C., & Zhou, J. (2025). Maliciously secure circuit private set intersection via SPDZ-compatible oblivious PRF. Proceedings on Privacy Enhancing Technologies, 2025(2), 680–696. https://doi.org/10.56553/popets-2025-0082
- A Flexible and Efficient PSI-CA Protocol with Malicious Security, Differential Privacy, and Fairness.(Awaiting Submission for Publication)
- Ren, H., Song, X., Zhang, Q., Huang, L., Cai, Q., Lin, Y., ... & Dong, C. Latency-aware (2+1)-PC and its application to secure transformer inference (submitted to USENIX Security 2026)

Research Experiences

 $\bullet \ \ Privacy-Preserving \ Machine \ Learning \ under \ Secret \ Sharing \ (\ Collaborative \ Research \ with \ ByteDance \)$

02/2025-Now

• Explainable AI: A Method for Calculating Contribution Importance of Parameters, Neurons and Inputs

09/2023-01/2024

Performing explainable analysis of the pre-trained vision model on ImageNet.

• AI Security: Black-box Adversarial Attack and Defense Algorithms

09/2024-Now

Improvement of score-based black box adversarial attack algorithm and improvement of the stochastic adversarial defense algorithm against adaptive attacks

 Heterogeneous Computing Acceleration Algorithm of Neural Network Based on SYCL (Intel DPC++)

12/2022-03/2023

Implementation of fully connected layer inference algorithm of binary neural networks

 The Application of Multi-omics graph Convolutional Neural Networks in Disease Classification and Biomarker Recognition

Reproduction of the experimental results of the thesis and structure improvement of GCN model

• Simulation of Operant Conditioning reflex in Brain-Inspired Neural Networks.

07/2019-Now

Simulating Leaky Integrate-and-Fire (LIF) neurons, with Spike-Timing-Dependent Plasticity(STDP) employed as the learning rule instead of gradient descent, accomplishing the learning of operant conditioning reflex in the multi-armed bandit problem.

Skills

- Programming: C/C++, Python, CUDA, SYCL/DPC++, OpenMP
- Pytorch: Customizing Optimizer and Back Propagation
- AI: Deep Learning, Reinforcement Learning, Brain-Like Intelligence, XAI, Generalization.
- Fundamentals: Algorithms, Data Structures, Hardware Architecture of CPUs and GPUs.
- Privacy-preserving AI inference

Languages

English	Chinese (Mandarin)
IELTS: Overall Score 6.5	Native

GRE Score

Total Score: 320