

# XIAN WANG

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## EDUCATION

**The Hong Kong University of Science and Technology**  
Master of Philosophy in Computer Science and Engineering  
Supervisor: Dr. Dimitris Papadopoulos

Hong Kong S.A.R.  
Jul. 2023 - Jul. 2025 (expected)

**Xidian University**  
Bachelor of Software Engineering, GPA: 3.7/4 (top 3%)

Xi'an, China  
Sep. 2018 - Jun. 2022

## PUBLICATION

### **SOTER: Guarding Black-box Inference for General Neural Networks at the Edge**

*USENIX ATC'22* (with result reproduced badge), links: [paper][code][video][slides]

Tianxiang Shen, Ji Qi, Jianyu Jiang, Xian Wang, Siyuan Wen, Xusheng Chen, Shixiong Zhao, Sen Wang, Li Chen, Xiapu Luo, Fengwei Zhang, Heming Cui

- This work leverages the associativity property of inference operators to outsource neural network computation to untrusted GPU and restores the results within TEE at the edge. It also devises an oblivious fingerprint to detect integrity breaches.
- Personal contribution: All code implementation and experiments, as well as writing of the evaluation part.

### **ENIDrift: A Fast and Adaptive Ensemble System for Network Intrusion Detection under Real-world Drift**

*ACSAC'22* (with artifact functional badge), links: [paper][code][video][slides]

Xian Wang

- The work devises an incremental neural network to extract features of network packets and constructs an adaptive ensemble of ML classifiers to detect anomalies of network packets under real-world drift. It also provides a novel dataset for network intrusion detection.
- Personal contribution: The whole work (implementation, experiment, writing, etc.).

## PROFESSIONAL EXPERIENCE

**The University of California, Santa Cruz**  
*Research assistant, advisor: Dr. Ioannis Demertzis*

Remote  
Aug. 2023 - Feb. 2024

**The University of Hong Kong**  
*Research assistant*

Hong Kong S.A.R.  
Sep. 2022 - Apr. 2023

**Apple**  
*Full-time data science intern*

Shanghai, China  
Jan. - Jun. 2022

## HONORS & AWARDS

- 2023 - 2025 HKUST postgraduate full scholarship
- 2021 National Scholarship (top 1%)
- 2020 Chinese Modern Scientist Memorial Scholarship (top 0.05%)
- 2020 National Scholarship (top 1%)
- 2019 National Scholarship (top 1%)

## SKILLS

<b>Language</b>	Fluent in English; native Mandarin speaker
<b>Programming</b>	C, C++, Python, MATLAB, SQL
<b>Other tools &amp; platforms</b>	Intel SGX, Linux, Libtorch, PyTorch, TensorFlow, L <sup>A</sup> T <sub>E</sub> X