Wenjie Qu

Department of Artificial Intelligence and Automation
Huazhong University of Science and Technology
https://quwenjie.github.io/
wen_jie_qu@outlook.com

EDUCATION

Huazhong University of Science and Technology, Wuhan, China   2019.9-2023.6
B.E. Automation, Honor Class

- **GPA: 3.93/4.0** Score: 90.8/100

RESEARCH INTERESTS

Various topics in Computer Security:

- Machine Learning for Computer Security

- Machine Learning Security& Privacy

- Secure Computation

- Software Security

- Blockchain Security& Privacy

EXPERIENCE

Decentralized System Building and Federated Learning   March 2022-
Research Intern, Dawn Song's Group, UC Berkeley   Berkeley, USA
Under the supervision of Professor Dawn Song

AI-assisted Decompilation   January 2022-
Research Intern, Hexhive Group, EPFL   Lausanne, Switzerland
EPFL Summer Program, selected 2% out of undergraduates globally
Under the supervision of Professor Mathias Payer

Binary Analysis   June 2021-January 2022
Research Intern, Network & Information Security Lab, Tsinghua University   Beijing, China
Under the supervision of Professor Chao Zhang.

Provably Robust Machine Learning   January 2021-March 2022
Research Intern, Neil Gong's Research Group, Duke University   Durham, USA(remote)
Under the supervision of Professor Neil Gong.

Adversarial Machine Learning on Computer Vision
Research Intern, School of Cyber Science and Engineering, Huazhong University of S&T   Wuhan, China
Under the supervision of Dr.Binghui Wang and Professor Pan Zhou

PUBLICATIONS

- **jTrans: Jump-Aware Transformer for Binary Code Similarity Detection**
  Hao Wang*, **Wenjie Qu***, Gilad Katz, Wenyu Zhu, Zeyu Gao, Han Qiu, Jianwei Zhuge, Chao Zhang
  *International Symposium on Software Testing and Analysis(**ISSTA**)* 2022

- **EncoderMI: Membership Inference against Contrastive Learning**
  Hongbin Liu*, Jinyuan Jia*, **Wenjie Qu**, Neil Gong
  *ACM Conference on Computer and Communications Security (**CCS**)* 2021,

- **REaaS: Robust Encoder as a Service in Contrastive Learning**
  Wenjie Qu, Jinyuan Jia, Neil Gong
  Submitted to NDSS 2023

- **Certified Radius-Guided Attacks to Image Segmentation Models**
  Wenjie Qu*, Youqi Li*, Binghui Wang
  Submitted to IEEE S&P 2023

- **Pre-trained Encoders in Self-Supervised Learning Improve Secure and Privacy-preserving Supervised Learning**
  Hongbin Liu*, **Wenjie Qu***, Jinyuan Jia, Neil Gong
  Submitted to ACM CCS 2022

PROJECTS

Decentralized Data Science

ACADEMIC SERVICE

External Reviewer

- International Conference on Machine Learning (ICML), 2022

HONORS & AWARDS

- Autodriving CTF, DEFCON 29, 4th place   2021
- **National Scholarship (the highest honor for undergraduates in China)**   2020
- **Outstanding Graduate(top 1%)**   2020
- Merit Student (1/30)   2020

Programming Competitions

- Bronze Medal, Asia-Pacific Informatics Olympiad   2018

- Bronze Medal, National Olympiad in Informatics Winter Camp   2018

- First Prize, National Olympiad in Informatics in Provinces   2017