

Junhao Huang

PhD Student

BNU-HKBU United International College, Zhuhai, China

18626423381

huangjunhao@uic.edu.cn



Education

- **BNU-HKBU United International College**
PhD student at Data Science and Technology
Supervisor: Dr. Donglong Chen
Sep. 2021-now
- **Nanjing University of Aeronautics and Astronautics**
Master Degree of Cyberspace Security
Supervisor: Prof. Zhe Liu
Sep. 2018-Jun. 2021
- **Nanjing University of Aeronautics and Astronautics**
Bachelor Degree of Computer Science and Technology
GPA: 3.7
Sep. 2014-Jun. 2018

Research Interest

- Cryptographic Engineering, Public-key Cryptography, Lattice-based Cryptography.

Research Activities

- **Teaching Assistant**
BNU-HKBU United International College, Computer and Network Security
Zhuhai, China
Sep. 2021-Now
- **Research Assistant**
Wuhan University, Cryptography and Blockchain Technology Lab
Wuhan, China
Sep. 2019-Jan. 2020

Publications

- Journal Publications

1. Improved Plantard Arithmetic for Lattice-based Cryptography,
Junhao Huang, Jipeng Zhang, Haosong Zhao, Zhe Liu, Ray C.C. Cheung, Çetin Kaya Koç, Donglong Chen.
In [IACR Transactions on Cryptographic Hardware and Embedded Systems, 2022 \(CCF-B\)](#)
2. Time-memory Trade-offs for Saber on Memory-constrained RISC-V,
Jipeng Zhang, **Junhao Huang**, Zhe Liu, Sujoy Sinha Roy.
In [IEEE Transactions on Computers, 2022 \(CCF-A\)](#)
3. High-Speed AVX2 Implementation of AKCN-MLWE,
YANG Hao, LIU Zhe, **HUANG Jun-Hao**, SHEN Shi-Yu ZHAO Yun-Lei.
In [Chinese Journal of Computers, 2021](#)

- Conference Publications

1. Efficient Implementation of Kyber on Mobile Devices,
Lirui Zhao, Jipeng Zhang, **Junhao Huang**, Zhe Liu, Gerhard Hancke,
In [IEEE International Conference on Parallel and Distributed Systems - ICPADS 2021 \(CCF-C\)](#)
2. Parallel Implementation of SM2 Elliptic Curve on Intel Processor with AVX2.
Junhao Huang, Zhe Liu, Zhi Hu, and Johann Großschädl.
In [Australasian Conference on Information Security and Privacy - ACISP 2020 \(CCF-C\)](#)
3. An Efficient and Scalable Sparse Polynomial Multiplication Accelerator for LAC on FPGA,
Jipeng Zhang, Zhe Liu, Hao Yang, **Junhao Huang**, Weibin Wu.
In [IEEE International Conference on Parallel and Distributed Systems - ICPADS 2020 \(CCF-C\)](#)

Honor Certificates

- Nov.2019 Patent for An efficient implementation of Co-Z based Montgomery ladder algorithm using AVX2, CN112367172A.
- Oct. 2018 Postgraduate **First prize** Scholarship
- Oct. 2018 **First Prize** of Academic Scholarship
- Jun. 2018 Software Copyright for the University Association Information Management System
- Oct. 2017 National Encouragement Scholarship, **Third Prize** of Outstanding Student Scholarship
- Oct. 2016 National Encouragement Scholarship, **Second Prize** of Outstanding Student Scholarship
- Oct. 2015 National Encouragement Scholarship, **First Prize** of Outstanding Student Scholarship

Professional Skills

1. Language Level: CET-4: 597, CET-6: 513, **IELTS: 7.0**
2. Programming Language: C/C++, x86-64/Cortex-M4/Cortex-M3/RISC-V Assembly, AVX2 and CUDA programming, Python