

# Han SHI



---

**Gender:** Male

**Date of Birth:** 1/30/1996

**School of Information:** Hong Kong University of Science and Technology  
Clear Water Bay, Kowloon, Hong Kong

**Email:** [hshiac@cse.ust.hk](mailto:hshiac@cse.ust.hk)

**Phone:** +852-59383895

---

## Education

Hong Kong University of Science and Technology  
PhD candidate in Computer Science and Engineering

Hong Kong  
Aug 2018 - Present

Tsinghua University  
Bachelor in Electronic Engineering  
Bachelor in Economics (the second degree)  
GPA: 90/100

Beijing, China  
Sep 2014 - Jun 2018  
Sep 2015 - Jun 2018

---

## Research Interests

- Neural Architecture Search
- Network Representation Learning

## Publications and thesis

Continual Object Detection via Prototypical Task Correlation Guided Gating Mechanism  
B. Yang, X. Deng, **Han Shi**, C. Li, G. Zhang, H. Xu, S. Zhao, L. Lin, X. Liang  
*CVPR, 2022*

Revisiting Over-smoothing in BERT from the Perspective of Graph  
**Han Shi**, J. Gao, H. Xu, X. Liang, Z. Li, L. Kong, S.M.S. Lee, J.T. Kwok  
*ICLR, Spotlight (5.19%), 2022*

AutoBERT-Zero: Evolving BERT Backbone from Scratch  
J. Gao, H. Xu, **Han Shi**, X. Ren, P.L.H. Yu, X. Liang, X. Jiang, Z. Li  
*AAAI, 2022*

SparseBERT: Rethinking the Importance Analysis in Self-attention  
**Han Shi**, J. Gao, X. Ren, H. Xu, X. Liang, Z. Li, J.T. Kwok  
*ICML, 2021*

Bridging the Gap between Sample-based and One-shot Neural Architecture Search with BONAS

**Han Shi**, R. Pi, H. Xu, Z. Li, J.T. Kwok, T. Zhang

*NeurIPS, 2020*

Effective Decoding in Graph Auto-Encoder using Triadic Closure

**Han Shi**, H. Fan, J.T. Kwok

*AAAI, 2020*

The Application of Manhattan Tangent Distance in Outdoor Fingerprint Localization

Z. Li, X. Zhong, J. Wei, **Han Shi**

*IEEE Global Communications Conference, 2018*

Coalition Games Based Joint Sub-Channel Allocation for Device-to-Device Underlying mmWave Small Cells

Y. Niu, **Han Shi**, Y. Li, Z. Zhong, Z. Han

*AT-RASC, 2018*

Social-Trust based Secrecy-Ensured Resource Allocation in D2D Underlay Communication: A Coalition Game Scheme

M. Ahmed, **Han Shi**, X. Chen, Y. Li, M. Waqas, D. Jin

*IEEE Transactions on Wireless Communications, 2018*

---

### **Internship experience**

Intern, Huawei Noah's Ark Lab

Shenzhen, China, Apr 2020 - Present

Intern, Face Recognition group, Megvii (Face++)

Beijing, China, Dec 2017 - Jul 2018

Research Assistant, Media Communication Lab, University of Southern California

Los Angeles, California, US, Jun 2017 - Aug 2017

### **Awards**

- Huawei PhD Fellowship, 2018 – 2022
  - Postgraduate Studentship, HKUST, 2018 - 2022
  - Comprehensive Scholarship (Top 10%), Tsinghua University 2016/2017
-