# YAODONG HUANG

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## Education

**Stony Brook University**, Stony brook, NY *August 2015 – Present*
Ph.D. Candidate, Computer Engineering
Department of Electrical and Computer Engineering

**Dalhousie University**, Halifax, NS *January 2015 - April 2015*
Visiting Student, Computer Science
Faculty of Computer Science

**University of Electronic Science and Technology of China**, Chengdu, China *August 2011 - June 2015*
Bachelor of Engineering, Computer Science and Technology
School of Computer Science and Engineering

## Academic Records

GPA: 3.91/4

**Core courses:**
ESE 536 Switch and Routing in Parallel and Distributed Systems
ESE 537 Mobile Sensing Systems & Application
ESE 546 Networking Algorithms and Analysis
AMS 546 Network Flows
ESE 533 Convex Optimization and Engineering Applications
AMS 542 Analysis of Algorithms

## Research Interests

My research interest is pervasive edge computing, including caching, security, privacy, and energy-efficiency in edge environments.

## Working Experiences

Teaching Assistant for ESE 124 (Computer Techniques for Electronic Design I), 2015-2017

Teaching Assistant for ESE 205 (Deterministic Signals and Systems), 2020

Research Assistant, 2017-Present

## Publications

Yaodong Huang, Yiming Zeng, Fan Ye, Yuanyuan Yang. Incentive Assignment in PoW and PoS Hybrid Blockchain in Pervasive Edge Environments. IEEE/ACM IWQoS 2020. (CCF Class B)

Yaodong Huang, Yiming Zeng, Fan Ye, Yuanyuan Yang. Fair and Protected Profit Sharing for Data Trading in Pervasive Edge Computing Environments. IEEE INFOCOM 2020. (CCF Class A)

Yaodong Huang, Xintong Song, Fan Ye, Yuanyuan Yang, Xiaoming Li. Fair and Efficient Caching Algorithms and Strategies for Peer Data Sharing in Pervasive Edge Computing Environments. IEEE Transactions on Mobile Computing. (CCF Class A, JCR Q1)

Yaodong Huang, Jiariu Zhang, Jun Duan, Bin Xiao, Fan Ye, Yuanyuan Yang. Resource Allocation and Consensus on Edge Blockchain in Pervasive Edge Computing Environments. IEEE ICDCS 2019. (CCF Class B)

Yaodong Huang, Fan Ye, Yuanyuan Yang. Peer Data Caching Algorithms in Large-Scale High-Mobility Pervasive Edge Computing Environments. IEEE IPCCC 2018. (CCF Class C)

Yaodong Huang, Xintong Song, Fan Ye, Yuanyuan Yang, Xiaoming Li. Fair caching algorithms for peer data sharing in pervasive edge computing environments. IEEE ICDCS 2017. (CCF Class B)

Xiaojun Shang, Yaodong Huang, Zhenhua Liu, Yuanyuan Yang. Reducing the Service Function Chain Backup Cost over the Edge and Cloud by a Self-adapting Scheme. IEEE INFOCOM 2020. (CCF Class A, Best Paper Award)

Yiming Zeng, Yaodong Huang, Zhenhua Liu, Yuanyuan Yang. Online Distributed Edge Caching for Mobile Data Offloading in 5G Networks. IEEE/ACM IWQoS 2020. (CCF Class B)

Yiming Zeng, Yaodong Huang, Ji Liu, Yuanyuan Yang. Privacy-Preserving Distributed Edge Caching for Mobile Data Offloading in 5G Networks. IEEE ICDCS 2020. (CCF Class B)

Yiming Zeng, Yaodong Huang, Zhenhua Liu, Yuanyuan Yang. Joint Online Edge Caching and Load Balancing for Mobile Data Offloading in 5G Networks. IEEE ICDCS 2019. (CCF Class B)

Xintong Song, Yaodong Huang, Qian Zhou, Fan Ye, Yuanyuan Yang, Xiaoming Li. Content centric peer data sharing in pervasive edge computing environments. IEEE ICDCS 2017. (CCF Class B)

Xintong Song, Yaodong Huang, Qian Zhou, Fan Ye, Yuanyuan Yang, Xiaoming Li. Pervasive edge data sharing in MANET. IEEE IECCO (INFOCOM Workshop) 2017

Xiaojun Shang, Yaodong Huang, Zhenhua Liu, Yuanyuan Yang. Reducing the Service Function Chain Backup Cost over the Edge and Cloud by a Self-adapting Scheme. IEEE Transactions on Mobile Computing. (CCF Class A, JCR Q1)

Yaodong Huang, Jiariu Zhang, Jun Duan, Bin Xiao, Fan Ye, Yuanyuan Yang. Resource Allocation and Consensus on Blockchain in Pervasive Edge Computing Environments. IEEE Transactions on Mobile Computing. (CCF Class A, JCR Q1)

(Under review) Yaodong Huang, Yiming Zeng, Fan Ye, Yuanyuan Yang. Fair Profit Sharing for Data Producer and Intermediate Parties in Data Trading over Pervasive Edge Computing Environments. IEEE Transactions on Mobile Computing.