

Congcong Miao

Ph.D
Computer Science and Technology
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EDUCATION

Tsinghua University 2015 - 2020
PhD student in Computer Science and Technology
Advisors: Prof. Jilong Wang.

Beijing University of Posts and Telecommunications (BUPT) 2011 - 2015
Bachelor's in Engineering.
Advisor: Prof. Yong Cui. *Outstanding Graduates (1%)*

WORK EXPERIENCE

Tencent Inc. Sep 2020 – Ongoing
Research Scientist (full time) in Department of Network Platform
Advisors: King He.

Tsinghua University Summer 2014
Visiting Research Assistant in LAB of Human-Computer Interaction and Media Integration
Advisors: Prof. Yongqiang Lyu & Prof. Yuanchun Shi

Beijing University of Posts and Telecommunications Summer 2013
Visiting Research Assistant in Institute of Information Photonics and Optical Communications
Advisors: Prof. Jinghua Xiao.

PUBLICATIONS

Conference Publications

8. **Detecting Ephemeral Optical Events with OpTel.**
Congcong Miao, Minggang Chen, Arpit Gupta, Zili Meng, Lianjin Ye, Jingyu Xiao, Jie Chen, Xulong Luo, Jilong Wang and Heng Yu.
The 19th USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2022
7. **BDAC: A Behavior-aware Dynamic Adaptive Configuration on DHCP in Wireless LANs.**
Congcong Miao, Jilong Wang, Tianying Ji, Hui Wang, Chao Xu, Fenghua Li, Fengyuan Ren.
International Conference on Network Protocols (ICNP), 2019
6. **QuickSync: Improving Synchronization Efficiency for Mobile Cloud Storage Services.**
Yong Cui, Zeqi Lai, Xin Wang, Ningwei Dai, Congcong Miao.
The 21st Annual International Conference on Mobile Computing and Networking (Mobicom), 2015
5. **Measuring Photoplethysmogram-Based Stress-Induced Vascular Response Index to Assess Cognitive Load and Stress.**
Yongqiang Lyu, Xiaomin Luo, Jun Zhou, Chun Yu, Congcong Miao, Tong Wang, Yuanchun Shi, K. Kameyama.
Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI), 2015.
🏆 **Honorable Mention.**
4. **Predicting human mobility via Attentive Convolutional Network.**
Congcong Miao, Ziyang Luo, Fengzhu Zeng, Jilong Wang.
12th ACM International Conference on Web Search and Data Mining (WSDM), 2019. (Oral)
3. **Predicting Crowd Flows via Pyramid Dilated Deeper Spatial-temporal Network.**
Congcong Miao, Jiajun Fu, Jilong Wang, Heng Yu, Botao Yao, Anqi Zhong, Jie Chen, Zekun He.
13th ACM International Conference on Web Search and Data Mining (WSDM), 2020
2. **Trajectory-User Linking with Attentive Recurrent Network.**
Congcong Miao, Jilong Wang, Heng Yu, Weicheng Zhang, Yinyao Qi.
International Conference on Autonomous Agents and MultiAgent Systems (AAMAS), 2020. (Oral)

1. **A Multi-dimension Measurement Study of a Large Scale Campus WiFi Network.**
Congcong Miao, Jilong Wang, Hui Wang, Jun Zhang, Weiwei Zhou, Shengchao Liu.
IEEE 43rd Conference on Local Computer Networks (LCN), 2018.

Journal Publications

* - corresponding author

2. **Octans: Optimal Placement of Service Function Chains in Many-Core Systems.**
 Heng Yu, Zhilong Zheng, Junxian Shen, **Congcong Miao***, Chen Sun, Hongxin Hu, Jun Bi,
 Jianping Wu, Jilong Wang.
IEEE Transactions on Parallel and Distributed Systems (TPDS), 2021

1. **A simple method to improve a torsion pendulum for studying chaos.**
Congcong Miao, Wu Luo, Yaqi Ma, Weiqing Liu and Jinghua Xiao.
European Journal of Physics (EJP), 2014.

Reviewing Experiences

- Reviewer (2015) **Infocom**
- Reviewer (2015) **China Communication**
- Reviewer (2020-present) **CollaborateCom**
- Reviewer (2020-present) **ECML**

SELECTED AWARDS AND HONORS

- **Honorable Mention at CHI '15** 2015
- **Guanghua Fellowship** for Graduate Students, Tsinghua University 2017
- **First Prize of Scholarship** for undergraduate Students, BUPT 2012-2014
- **Third Prize** of Microsoft Imagine Cup 2013
- **Honorable Mention** of MCM/ICM 2013
- **First Prize** of Beijing Undergraduate Physics Experiment Competition 2013
- **Second Prize** of Beijing Undergraduate Physical Competition 2012
- **Third Prize** of Beijing Undergraduate Mathematics Competition 2012
- **Second Prize** of National Mathematics Competition 2010
- **Third Prize** of National Physical Competition 2010

TALKS

- **BDAC: A Behavior-aware Dynamic Adaptive Configuration on DHCP in Wireless LANs**
 - International Conference on Network Protocols (ICNP) October 2019
 - Tsinghua Student Research Conference, Beijing, China May 2020
- **A Multi-dimension Measurement Study of a Large Scale Campus WiFi Network**
 - IEEE 43rd Conference on Local Computer Networks (LCN) October 2018
- **Predicting human mobility via Attentive Convolutional Network**
 - International Conference on Web Search and Data Mining (WSDM) February 2020
- **Trajectory-User Linking with Attentive Recurrent Network**
 - International Conference on Autonomous Agents and MultiAgent Systems (AAMAS) May 2020

PROFESSIONAL RESPONSIBILITIES

- *Mentorship*
 - Students (during work experience in Tencent)
 - * **Yiren Zhao** (B.S.in University of Toronto)
Internship in Tencent
 - * **Siyuan Chai** (B.S.in Northwestern University)
Internship in Tencent → PhD student @ University of Illinois Urbana-Champaign
 - * **Quan Yuan** (M.S.in Tsinghua University)
Internship in Tencent

- * **Chaofan Zhang** (M.S.in Tsinghua University)
Internship in Tencent
 - * **Lianjin Ye** (M.S.in Tsinghua University)
Internship in Tencent (coauthor of NSDI22)
 - * **Jingyu Xiao** (M.S.in Tsinghua University)
Internship in Tencent (coauthor of NSDI22)
- Students (during PhD experience in Tsinghua University)
- * **Weiwei Zhou** (B.S.in BUPT)
Research Assistant (coauthor of LCN2018), Tsinghua University (with Prof. Jilong Wang)
→ Master student @ University of California San Diego (UCSD) → Youtube (now)
 - * **Jun Zhang** (B.S.in BUPT)
Research Assistant (coauthor of LCN2018), Tsinghua University (with Prof. Jilong Wang)
→ Master student @ Aalto University
 - * **Ziyan Luo** (B.S.in BUPT)
Research Assistant (coauthor of WSDM2019) and Bachelor Thesis, Tsinghua University (with Prof. Jilong Wang) → PhD student @ McGill University
 - * **Fengzhu Zeng** (B.S.in BUPT)
Research Assistant (coauthor of WSDM2019) and Bachelor Thesis, Tsinghua University (with Prof. Jilong Wang) → PhD student @ Singapore Management University
 - * **Jiajun Fu** (B.S.in BUPT)
Research Assistant (coauthor of WSDM2020) and Bachelor Thesis, Tsinghua University (with Prof. Jilong Wang) → PhD student @ Simon Fraser University
 - * **Weichen Zhang** (B.S.in BUPT)
Research Assistant (coauthor of AAMAS2020), Tsinghua University (with Prof. Jilong Wang) → Master student @ Tsinghua University