

# HONGLU (CLAIRE) JIANG

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## EDUCATION

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- **The George Washington University, Washington, DC** **May, 2021**  
Ph.D., Computer Science
- **Qufu Normal University, Shandong, China** **June, 2012**  
M.S., Computer Applied Technology
- **Qufu Normal University, Shandong, China** **July, 2009**  
B.E., Network Engineering

## APPOINTMENTS

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- **Assistant Professor (Sep. 2021-)**  
The University of Texas Rio Grande Valley, Brownsville, Texas
- **Assistant Professor (Sep. 2013-Jan. 2019)**  
Shandong Polytechnic Institute, Jinan, Shandong, China
- **Network Engineer (July 2012-Aug. 2013)**  
Taishan Medical University Affiliated Hospital, Tai'an, Shandong, China

## TEACHING EXPERIENCE

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- **Courses Taught at UTRGV**  
CSCI 2344 Programming in Unix/Linux Environment (Fall 2021)
- **Teaching Assistant at GWU**  
CSCI 1311 Discrete Structures (Spring 2020)  
CSCI 4431 Computer Networks (Fall 2020)  
CSCI 4331 Cryptography (Fall 2019)

## RESEARCH INTERESTS

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- Privacy Preservation and Data Security
- Social Network and Big Data
- Deep learning and Reinforcement Learning
- IoT Privacy and Security

## PUBLICATIONS

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### Book

1. Jiguo Yu, Xiuzhen Cheng, Honglu Jiang, Dongxiao Yu, "Hierarchical Topology Control for Wireless Networks: Theory, Algorithms, and Simulation," *CRC Press*, Feb 2018.

### Journal Articles

2. Honglu Jiang, Jian Pei, Dongxiao Yu, Jiguo Yu, Bei Gong, Xiuzhen Cheng, "Applications of Differential Privacy in Social Network Analysis: A Survey," *IEEE transactions on Knowledge and Data Engineering*, doi: 10.1109/TKDE.2021.3073062.

3. Honglu Jiang, Jiguo Yu, Xiuzhen Cheng, Cheng Zhang, Bei Gong, Haotian Yu, "Structure-Attribute Based Social Network De-Anonymization with Spectral Graph Partitioning," *IEEE Transactions on Computational Social Systems*, doi: 10.1109/TCSS.2021.3082901.
4. Cheng Zhang, Honglu Jiang, Xiuzhen Cheng, Feng Zhao, Zhipeng Cai, Zhi Tian, "Utility Analysis on Privacy-Preservation Algorithms for Online Social Networks: An Empirical Study," *Personal and Ubiquitous Computing*, Aug. 2019, pp.1-17.
5. Lina Ni, Chao Li, Xiao Wang, Honglu Jiang, Jiguo Yu, "DP-MCDBSCAN: Differential Privacy Preserving Multi-core DBSCAN Clustering for Network User Data," *IEEE Access*, Vol. 6, 2018, pp. 21053-21063.
6. Biwei Yan, Jiguo Yu, Meihong Yang, Honglu Jiang, Zhiguo Wan, Lina Ni, "A Novel Distributed Social Internet of Things Service Recommendation Scheme Based on LSH Forest," *Personal and Ubiquitous Computing*, 2019, pp. 1-14.
7. Kan Yu, Meng Gao, Honglu Jiang, Guangshun Li, "Multi-Leader Election in Dynamic Sensor Networks," *EURASIP Journal on Wireless Communications and Networking*, 2017(1), pp.1-14.
8. Yuhong Sun, Ruinian Li, Honglu Jiang, Jianchao Zheng, Lina Ni, "Modeling and Analysis of Random Dense CSMA Networks," *EURASIP Journal on Wireless Communications and Networking*, 2018(1), pp. 1-17.
9. Feng Li, Jiguo Yu, Feng Zhao, Honglu Jiang, "A Novel Analysis of Delay and Power Consumption for Polling Schemes in the IoT," *Tsinghua Science and Technology*, Vol. 22, No. 4, 2017, pp. 368-378.

### Conference Papers

10. Honglu Jiang, Haotian Yu, Xiuzhen Cheng, Jian Pei, Jiguo Yu, "DP2-Pub: Differentially Private High-Dimensional Data Publication with Invariant Post Randomization," *In preparation*.
11. Honglu Jiang, Jiguo Yu, Chunqiang Hu, Cheng Zhang, Xiuzhen Cheng, "SA Framework Based De-Anonymization of Social Networks," *Procedia Computer Science*, Vol. 129, 2018, pp. 358-363.
12. Cheng Zhang, Honglu Jiang, Yawei Wang, Qin Hu, Jiguo Yu, Xiuzhen Cheng, "User Identity De-Anonymization Based on Attributes," *International Conference on Wireless Algorithms, Systems, and Applications*, Springer, 2019, pp. 458-469.
13. Cheng Zhang, Shang Wu, Honglu Jiang, Yawei Wang, Jiguo Yu, Xiuzhen Cheng, "Attribute-Enhanced De-Anonymization of Online Social Networks," *International Conference on Computational Data and Social Networks*, Springer, 2019, pp. 256-267.

## PROFESSIONAL AFFILIATIONS

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### Paper Reviewer

- Journal of Computer Communications
- IEEE Transactions on Computational Social Systems
- IEEE Transactions on Network Science and Engineering
- ACM Transactions on Cyber-Physical Systems
- IEEE Internet of Things Journal
- Computers & Security

### Conference Session Chair

- IIKI 2017
- WASA 2019