Xiaolan Gu

University of Arizona, Tucson, AZ
✉ xiaolang@email.arizona.edu

EDUCATIONS

- **University of Arizona, Tucson, AZ** — Aug. 2018 - Present
  Ph.D., Electrical and Computer Engineering
  GPA: 4.00/4.00

- **Beihang University, Beijing, China** — Sept. 2015 - Mar. 2018
  M.E., Automation Science and Electrical Engineering
  GPA: 3.94/4.00

- **Beihang University, Beijing, China** — Sept. 2011 - Jul. 2015
  B.S., Mathematics and Systems Science
  GPA: 3.58/4.00

EXPERIENCES

- **Graduate Research Assistant, University of Arizona** — Fall 2018 - Present
  Advisor: Dr. Ming Li — Tucson, AZ
  - Privacy-preserving data collection in local/decentralized setting
  - Privacy-preserving machine learning

- **Research Intern, Baidu Security Lab (USA)** — Summer 2019
  Mentor: Dr. Yueqiang Cheng — Sunnyvale, CA
  - Key-value data collection under local differential privacy

PUBLICATIONS

• Conference Papers

[1] **Xiaolan Gu**, Ming Li, Yueqiang Cheng, Li Xiong and Yang Cao, "PCKV: Locally Differentially Private Correlated Key-Value Data Collection with Optimized Utility", 29th USENIX Security Symposium (**USENIX Security 2020**), pp. 1-18, Boston, MA, August 2020.

[2] **Xiaolan Gu**, Ming Li, Li Xiong and Yang Cao, "Providing Input-Discriminative Protection for Local Differential Privacy", 36th IEEE International Conference on Data Engineering (**ICDE 2020**), pp. 505-516, Dallas, Texas, April 2020. (Acceptance rate: 129/568=23%)

[3] **Xiaolan Gu**, Ming Li, Yang Cao and Li Xiong. "Supporting both Range Queries and Frequency Estimation with Local Differential Privacy", 7th IEEE Conference on Communications and Network Security (**IEEE CNS 2019**), pp. 124-132, Washington, D.C., June 2019. (Acceptance rate: 32/115=28%)

• Journal Papers

[1] **Xiaolan Gu** and Qiusheng Wang, "Sparse canonical correlation analysis algorithm with alternating direction method of multipliers", *Communications in Statistics - Simulation and Computation*, pp. 1-17, 2019.

[2] **Xiaolan Gu**, Yong Cui, Qiusheng Wang, Haiwen Yuan, Luxing Zhao and Guifang Wu, "Received signal strength indication-based localisation method with unknown path-loss exponent for HVDC electric field measurement", *IET - High Voltage*, 2(4), pp. 261-266, 2017.

[3] Qiusheng Wang, **Xiaolan Gu** and Jinyong Lin, "Adaptive notch filter design under multiple identical bandwidths", *AEU - International Journal of Electronics and Communications*, 2017(82), pp. 202-210, 2017.

[4] Qiusheng Wang, **Xiaolan Gu**, Yingyi Liu, and Haiwen Yuan, "Digital multiple notch filter design with Nelder-Mead simplex method", *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Science*, 100(1), pp. 259-265, 2017.

AWARDS AND HONORS

- Student Grant *USENIX Security Symposium* Aug. 2020
- Student Grant *IEEE Conference on Communications and Network Security (CNS)* Jun. 2019
- Outstanding Graduate Award *Beihang University* Mar. 2018
- *Guanghua* Scholarship *Beihang University* Nov. 2016
- Outstanding Graduate Award *Beihang University* Jun. 2015

PROFESSIONAL SERVICES

- **Conference Reviewers:** ICICS 2019.
- **Journal Reviewers:** IEEE TVT 2020.
- **External Reviewers:** IEEE ICDE 2021, ACSAC 2020, ACM WiSec 2020, IEEE TIFS 2020, IEEE ICDCS 2020, IEEE INFOCOM 2020, ACM CCS 2019.

TEACHING

- Teaching Assistant, ECE 175 - Computer Programming for Engineering Applications Spring 2019
- Teaching Assistant, ECE 175 - Computer Programming for Engineering Applications Fall 2018

SKILLS

- C, Matlab, Python