

JIAXI GU

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Education

- Northwestern Polytechnical University** *Sep. 2014 – Jun. 2019*
Ph.D. in Computer Science and Technology
- Northwestern Polytechnical University** *Sep. 2010 – Jun. 2014*
B.E. in Computer Science and Technology

Projects

- NASR (Non-Auditory Speech Recognition)** **Android** ◊ **Java** ◊ **Python**
· A NonAuditory Speech Recognition (NASR) method using motion sensors.
- FamiCam** **Android** ◊ **Java** ◊ **WebRTC**
· A video chat system developed for a nursing home in Shanghai.
- VideoTrans** **C** ◊ **C++** ◊ **ZeroMQ**
· A multimedia transmission system on UDP using PGM protocol.
- SpotLight** **Android** ◊ **Java** ◊ **Python**
· Hot target discovery and localization with crowdsourced photos.

Skills

- **Programming:** C, Java, Haskell.
- **Typesetting:** L^AT_EX, HTML.
- **Computing:** Python, R.
- **Hacking:** Emacs(-Lisp), Vim, *NIX.

Publications

- **Jiayi Gu**, Lan Zhang, Jiliang Wang, Zhiwen Yu, Xiaozhe Xin and Yunhao Liu, “Spotlight: Multiple-object Localization by Mobile Photo Fusion.” in *International Conference on Big Data Computing and Communications*, 2018
- **Jiayi Gu**, Kele Shen, Jiliang Wang, Zhiwen Yu and Yunhao Liu, “NASR: NonAuditory Speech Recognition with Motion Sensors in Head-mounted Displays.” in *International Conference on Wireless Algorithms, Systems, and Applications*, 2018
- **Jiayi Gu**, Jiliang Wang, Zhiwen Yu and Kele Shen, “Walls Have Ears: Traffic-based Side-channel Attack in Video Streaming.” in *IEEE Conference on Computer Communications*, 2018
- Lan Zhang, Taeho Jung, Kebin Liu, Xiangyang Li, Xuan Ding, **Jiayi Gu** and Yunhao Liu, “Pic: Enable large-scale privacy preserving content-based image search on cloud.” in *IEEE Transactions on Parallel and Distributed Systems*, 2017