

Wenqi Wei

<https://wenqiwei789.github.io/Homepage/>

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EDUCATION

- **Georgia Institute of Technology** Atlanta, GA
Ph.D. student in Computer Science Aug. 2017 to present
Areas of interest: machine learning, privacy-preserving machine learning, data privacy.
- **Huazhong University of Science and Technology** Wuhan, China
Bachelor of Engineering in Electronics and Information Engineering Sept. 2013 to June. 2017
Graduated with Honors
Cumulative GPA: 86.15 (ranking 17/185)

RESEARCH EXPERIENCE

- **Georgia Institute of Technology** Atlanta, GA
Distributed Data Intensive Systems Lab advisor: Prof. Ling Liu
Graduate Research Assistant(Aug 2017 - present)
 - **Deep Learning:** Research on tuning neural network (hyper)parameters, designing new neural network models to produce better accuracy results. The coding is under TensorFlow.
 - **Generative Adversarial Network:** Research on how the adversarial model are generated and how to defend the attack caused by the perturbed data.
 - **Data Privacy:** Research on privacy-preserving deep learning, mainly using techniques from differential privacy. Hoping to protect data privacy.
- **Huazhong University of Science and Technology** Wuhan, China
Signal Processing and Information Networking in Communication Lab advisor: Prof. Pan Zhou
Undergraduate Research Assistant(Sept 2015 - June 2017)
 - **Online Learning:** Research on designing contextual multi-armed bandit-based recommendation for social network advertising big data. Also, I worked on designing a contextual X-armed bandit-based recommendation for self-diagnosis in ubiquitous healthcare.
 - **Differential Privacy:** Research on designing differentially private online learning algorithm for social network advertising big data to protect user's personal information while providing nearly accurate advertising recommendation. Also, I worked on designing a mechanism for large-scale spectrum sharing using techniques from differential privacy, hoping to protect the privacy of the user's personal information in spectrum sharing setting.
 - **Algorithmic Game Theory:** Research on mechanism design in an algorithmic game-theoretical way to improve utility for large-scale spectrum sharing. Considered truthfulness in the mechanism design to ensure users are reporting their real information to our aggregative spectrum sharing so that a approximate Nash Equilibrium is reached.

PUBLICATIONS

- [1] P. Zhou, W. Wei(co-first author), K. Bian, D. O. Wu, Y. Hu, Q. Wang. Private and Truthful Aggregative Game for Large-Scale Spectrum Sharing. IEEE Journal on Selected Areas in Communications, 35(2), 463-477,2017.

SKILLS

- **Language:** Python, Tensorflow, C, HTML, SQL, Verilog HDL, assembly.
- **Tools:** matlab, Latex, Git, CCS(TI DSP), Quartus, Xilinx ISE, FPGA, SPSS.