Tianshi Wang | Curriculum Vitae

201 N Goodwin Ave, Urbana, IL 61801

📱 +1 217-693-2018 • ✉ tianshi3@illinois.edu
🌐 https://github.com/leowangx2013

I am a third-year PhD student in computer science major at University of Illinois at Urbana-Champaign, supervised by Prof. Tarek Abdelzaher. My research interests lie in Internet of Things (IoT), deep learning and mobile computing. My current research topics include deep learning computation offloading on mobile devices, data compression using deep learning, and deep learning in the frequency domain.

Educational Background

○ **University of Illinois at Urbana-Champaign**   **The United States**
Third-Year PhD Student in Computer Science   *Sept.2019 – Now*

○ **University of Illinois at Urbana-Champaign**   **The United States**
Master of Computer Science   *Sept.2017– Dec.2018*

○ **Sichuan University**   **China**
Bachelor of Engineering, Software Engineering Major   *Sept.2013–July 2017*

Publications

○ **AdaMask: Enabling Machine-Centric Video Streaming with Adaptive Frame Masking for DNN Inference Offloading**
- *Shengzhong Liu, **Tianshi Wang**, Jinyang Li, Dachun Sun, Mani Srivastava, Tarek Abdelzaher, MobiSys '22, July 2022. (in submission)*

○ **Audio Keyword Reconstruction from On-Device Motion Sensor Signals via Neural Frequency Unfolding**
- ***Tianshi Wang**, Shuochao Yao, Shengzhong Liu, Jinyang Li, Dongxin Liu, Huajie Shao, Ruijie Wang, Tarek Abdelzaher, UbiComp '21, October 2021.*

○ **Deep Learning in the Frequency Domain with the STFNets Toolkit**
- ***Tianshi Wang**, Shuochao Yao, Ailing Piao, Wenjun Jiang, Yiran Zhao, Huajie Shao, Shengzhong Liu, Dongxin Liu, Jinyang Li, Shaohan Hu, Lu Su, Jiawei Han, Tarek Abdelzaher, IEEE Transactions on Mobile Computing (in submission)*

○ **Deep compressive offloading: speeding up neural network inference by trading edge computation for network latency**
- *Shuochao Yao, Jinyang Li, Dongxin Liu, **Tianshi Wang**, Shengzhong Liu, Huajie Shao, Tarek Abdelzaher, SenSys '20, November 2020. (Best Paper Award)*

○ **GlobalFusion: A Global Attentional Deep Learning Framework for Multisensor Information Fusion**
- *Shengzhong Liu, Shuochao Yao, Jinyang Li, Dongxin Liu, **Tianshi Wang**, Huajie Shao, Tarek Abdelzaher, UbiComp '20, October 2020*

Technical Skills

○ **Programming Languages:** Python, Java, C++
○ **Deep learning frameworks:** PyTorch, Tensorflow