

Xin Huang

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GitHub: <https://github.com/xhuang2016>

Education

- **Ph.D., Computer Science** Aug. 2021 – present
 - Texas State University, San Marcos, TX
 - **Ph.D., Computer Engineering (GPA 4.0)** May 2018 – July 2021
 - Florida Institute of Technology, Melbourne, FL
 - **M.S., Electrical Engineering (GPA 3.85)** May 2016 – Dec. 2017
 - Florida Institute of Technology, Melbourne, FL
 - **B.E., Electronic Science and Technology** Sept. 2011 – June 2015
 - South China University of Technology, Guangzhou, China
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Work Experience

- **Software Intern – NVGraph, NVIDIA Corporation** Feb. 2021 – July 2021
 - **Research Assistant, Florida Institute of Technology, Melbourne, FL** Aug. 2018 – Dec. 2020
 - Using GPUs to Accelerate Graph Algorithms (e.g., PageRank and Monte Carlo Methods).
 - Deep Learning for Earthquake Detection using Low-Cost Sensors.
 - Machine/Deep Learning for HPC System Log Analysis and Freight Mode Choice Prediction.
 - Sampling and Estimation from Large Graphs.
 - Artificial Neural Networks for Boolean Satisfiability Problem and Travelling Salesman Problem.
 - **Engineering Intern, Guangdong FENGHUA Advanced Technology CO.LTD., China** Mar. 2015
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Publications

- **An Efficient and Scalable Algorithm for Estimating Kemeny's Constant of a Markov Chain on Large Graphs.**
 - S. Li*, X. Huang*, C.-H. Lee.
 - ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), Aug. 2021.
 - Acceptance Rate: 15%
- **Estimating Distributions of Large Graphs from Incomplete Sampled Data.**
 - S. Li, X. Huang, C.-H. Lee.

- IFIP Networking Conference, June 2021.

- Acceptance Rate: 25%

➤ **CrowdQuake: A Networked System of Low-Cost Sensors for Earthquake Detection via Deep Learning.**

- **X. Huang***, J. Lee*, Y.-W. Kwon, C.-H. Lee.

- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), Aug. 2020.

- Acceptance Rate: 16%

*Equal contribution

Presentations

➤ **CrowdQuake: A Networked System of Low-Cost Sensors for Earthquake Detection via Deep Learning** Aug. 2020

- ACM KDD 2020, Virtual Conference

➤ **Deep Learning for Earthquake Detection using Low-Cost MEMS Sensors** Sept. 2019

- Kyungpook National University, Daegu, South Korea

- 4th International Conference on Earthquake Early Warning, Seoul, South Korea

Awards

➤ **ACM KDD 2020 Student Travel Award** Aug. 2020

➤ **Doctoral Graduate Research Assistant Tuition Scholarship** Aug. 2018 – Dec. 2020

Skills

➤ **Programming**

- Python, MATLAB, R, C++, CUDA Programming, Shell

➤ **Data Mining & Machine Learning**

- Feature Engineering, Supervised/Unsupervised Learning, Classification, Regression, Clustering, Anomaly Detection, Deep Learning, Interpretability, Time Series Analysis, Federated Learning

➤ **Network Analysis & Graph Mining**

- Graph Properties, PageRank, Monte Carlo Methods, Graph Neural Networks

➤ **Software & Libraries**

- Scikit-learn, TensorFlow, PyTorch, Numba, Microsoft Office, LaTeX, Git, Markdown

➤ **Operating System**

- Windows, MacOS, Linux

➤ **Soft Skills**

- Adaptability, Quick Learner, Confidence, Self-Management, Strong Work Ethic