

# Xin Huang

Email: [xhuang@txstate.edu](mailto:xhuang@txstate.edu)

Cell Phone: 561-3174705

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

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## 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
    - Transferred to Texas State University with the advisor
  - **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.
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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

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## Presentations

➤ **An Efficient and Scalable Algorithm for Estimating Kemeny's Constant of a Markov Chain on Large Graphs** Aug. 2021

- ACM KDD 2021, Virtual Conference

➤ **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

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## Awards

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

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

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## 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