

# Quan T. Mai

University of Arkansas  
Fayetteville, Arkansas, US

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<https://quanmai.github.io>

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## EDUCATION

**University of Arkansas at Fayetteville**, Arkansas, United States 2020 - 2025 (Projected)  
PhD Student in Computer Engineering, CSCE Department

- Cumulative GPA (until present): 4.0/4.0

**DaNang University of Science and Technology**, DaNang, Viet Nam Aug 2011-June 2016  
Bachelor of Science in Electronics Engineering, Faculty of Electronics and Telecommunication

- Cumulative GPA: 3.44/4.0 (8.28/10)

## RESEARCH INTERESTS

Deep Learning, Machine Learning  
Graph Neural Networks and Representation Learning Algorithms  
High Performance Computing

## SKILLS

Programming languages: C++, Python, CUDA, DPC++  
Working on HPC environment, Linux  
Deep learning framework: Pytorch

## WORK EXPERIENCE

**Research Assistant**, NLP Lab, CSCE, University of Arkansas Spring 2023-Present  
Social media mining and analysis

**Teaching Assistant**, CSCE, University of Arkansas Fall 2020- Fall 2021  
Algorithms, Operating Systems, Programming Foundation II, Cloud Computing and Security

**Graduate Intern**, HPC Solution Architect, Intel Corporation Spring 2022-May 2022  
Implemented a Molecular Dynamics sample using Intel OneAPI DPC++, running 10x faster than naive C++ implementation.

**Research Assistant**, Computer System Lab, CSCE, University of Arkansas Spring 2020-Fall 2021  
Worked under guidance of Dr. Miaoqing Huang on High Performance Computing projects

**IP Design Engineer**, eSilicon (now Synopsys), Vietnam August 2016 - October 2019  
Circuit design team, worked major in developing high speed / ultra-high speed Pseudo two ports (P2P) SRAM on the cutting edge of process: 28nm, 14nm, 10nm, 7nm and 5nm technology

## PUBLICATIONS

**Q. Mai**, U. Nakarmi, M. Huang, "BrainVGAE: End-to-end Graph Neural Networks for Noisy fMRI Dataset", 2022 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)

T. Kamucheka, **Q. Mai**, M. Huang, X. Liu (2021), "CuSMC: Fast Parallel Implementation for Sequential Monte-Carlo on GPU", under review; GitHub code: <https://github.com/tkamucheka/CuSMC>

M. D. Le, V. Singh Rathour, Q. S. Truong, **Q. Mai**, P. Brijesh and N. Le, "Multi-module Recurrent Convolutional Neural Network with Transformer Encoder for ECG Arrhythmia Classification," 2021 IEEE EMBS International Conference on Biomedical and Health Informatics (BHI), 2021, pp. 1-5, doi: 10.1109/BHI50953.2021.9508527

## **EXTERNAL SERVICES**

Conference of the European Chapter of the Association for Computational Linguistics (EACL)