Quan T. Mai

University of Arkansas   quanmai@uark.edu
Fayetteville, Arkansas, US   http://quanmai.org

EDUCATION

University of Arkansas at Fayetteville, Arkansas, United States   Spring 2020 - Present
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

Teaching Assistant, CSCE, University of Arkansas   Fall 2020- Present
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 (2022), *"BrainVGAE: End-to-end Graph Neural Networks for Noisy fMRI Dataset"*

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)