

Chih-Chun Chang

<https://github.com/gary30404>

chih-chun.chang@wisc.edu

EDUCATION

UNIVERSITY of WISCONSIN-MADISON

PhD, Major in Electrical and Computer Engineering

Madison, WI

-Present

NATIONAL TSING-HUA UNIVERSITY

MS, Major in Computer Science

Hsinchu, TAIWAN

NATIONAL TSING-HUA UNIVERSITY

BS, Major in Electrical Engineering

Hsinchu, TAIWAN

RESEARCH EXPERIENCE

UNIVERSITY of WISCONSIN-MADISON

- Focus on parallel and heterogeneous computing for graph data and algorithms
- Published Paper:
 - Chih-Chun Chang, Tsung-Wei Huang, "uSAP: An Ultra-Fast Stochastic Graph Partitioner", *IEEE High-performance and Extreme Computing Conference (HPEC)*, 2023

NATIONAL TSING-HUA UNIVERSITY

- Focused on the algorithm of memristor-based spiking neural network accelerators
 - Proposed an efficient training and inference algorithm on GPUs
 - Devised a hardware-aware training algorithm to recover the process variation
 - Thesis: Performance Improvements of Memristor-based Spiking Neural Networks with the Process Variation
- Focused on object detection algorithms on NVIDIA's embedded GPUs
 - Implemented YOLO models on the embedded GPUs and optimized them using an AI compiler (TVM)

NATIONAL TAIWAN UNIVERSITY AI, IoT, AND HCI CENTER

- Focused on the AI tool and HCI interface developments
 - Devised a face recognition system using transfer learning
 - Established an HCI interface for wearable devices and data visualization

WORK EXPERIENCE

HOPENGLISH

- Cooperated with user experience researchers to analyze large user data
- Devised a customer service system on AWS with ML algorithms to increase the company's revenue

Taipei, TAIWAN

DIGITAL DRIFT

- Established an accurate food classification model for mobile applications
- Optimized the memory footprint for the DNN model on IOS and Android

Hsinchu, TAIWAN

AWARD

INNOVATION AWARD in IEEE HPEC Challenge 2023

CHAMPION in NVIDIA Smart Embedded Robotics Challenge 2016

ADDITIONAL INFORMATION

- Technical Skills: C++ / CUDA