



TSUNG-WEI (TW) HUANG

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<https://tsung-wei-huang.github.io/>

APPOINTMENT

Assistant Professor, Department of Electrical and Computer Engineering University of Wisconsin at Madison, Madison, Wisconsin, USA	2023 – present
Assistant Professor, Department of Electrical and Computer Engineering University of Utah, Salt Lake City, Utah, USA	2019 – 2023
Research Assistant Professor, Department of Electrical and Computer Engineering University of Illinois at Urbana-Champaign, IL, USA	2018 – 2019

EDUCATION

PhD, Department of Electrical and Computer Engineering University of Illinois at Urbana-Champaign, IL, USA	2013 – 2017
MS, Department of Computer Science and Information Engineering National Cheng Kung University, Tainan, Taiwan	2010 – 2011
BS, Department of Computer Science and Information Engineering National Cheng Kung University, Tainan, Taiwan	2006 – 2010

RESEARCH INTEREST

Electronic Design Automation, High-performance Computing, Quantum Computing

SOFTWARE PROJECT

Our software projects have been used by thousands of people from both industry and academia:

1. Taskflow: A General-purpose Parallel and Heterogeneous Programming System

<https://taskflow.github.io/>

- MIT/Amazon/HPEC Graph Challenge Innovation Award (2nd Place), 2023
- MIT/Amazon/HPEC Graph Challenge Champion Award (1st Place), 2020
- ACM Multimedia Best Open-source Software Award, 2019
- C++ Conference Best Poster Award, 2018

2. OpenTimer: A High-performance Timing Analysis Tool for VLSI Systems

<https://github.com/OpenTimer/OpenTimer>

- IEEE/ACM ICCAD 10-year Retrospective Most Influential Paper Award, 2024
- ACM SIGDA Outstanding PhD Dissertation Award, 2019
- Best EDA Software Tool, WOSET@ICCAD, 2018
- Top-3 Winners of ACM TAU Contests, 2014–2016
- Golden Timers of ACM TAU Contests, 2017–2021
- Golden Timer of IEEE/ACM ICCAD CAD Contest, 2015

3. RTLflow: A GPU Acceleration Flow for RTL Simulation with Batch Stimulus

<https://github.com/dian-lun-lin/rtlflow>

4. SNIG: A Task-parallel Inference Engine for Large Sparse Neural Network

<https://github.com/dian-lun-lin/SNIG>

- MIT/Amazon/HPEC Graph Challenge Champion Award, 2020

5. DtCraft: A Data-parallel Distributed Streaming System

<https://github.com/twhuang-uiuc/DtCraft>

- ACM Multimedia Best Open-source Software Award, 2018

AWARDS

- Honorable Mention (6th Place out of 90 teams), ICCAD CAD Contest, 2024
- ICCAD 10-year Retrospective Most Influential Paper Award, 2024
- 2nd Place, MIT/Amazon/HPEC Large Sparse Neural Network Challenge, 2023
- 2nd Place, MIT/Amazon/HPEC Streaming Graph Challenge, 2023
- ACM SIGDA Outstanding New Faculty Award, 2023
- ACM SIGDA Meritorious Service Award, 2022
- Humboldt Research Fellowship Award, Alexander von Humboldt Foundation, 2022
- Faculty Early Career Development Program (CAREER) Award, NSF, 2022
- Best Paper Award for “GPU-Accelerated Path-based Timing Analysis”, ACM TAU Workshop, 2021
- 1st Place, MIT/Amazon/HPEC Large Sparse Neural Network Challenge, 2020
- 2nd Place (Taskflow), Open-source Software Competition, ACM Multimedia Conference, 2019
- ACM SIGDA Outstanding PhD Dissertation Award (thesis title: “Distributed Timing Analysis”), 2019
- Best Tool Award (OpenTimer), Workshop on Open-source EDA Technology, 2018
- Best Open-source Software Award (DtCraft), ACM Multimedia Conference, 2018
- Best Poster Award (Taskflow), CPP Conference, 2018
- 2nd and 1st Place, ACM/SIGDA CADathlon International Programming Contest, 2014 and 2017
- 1st, 2nd, and 1st Place, ACM TAU Timing Analysis Contest, 2014–2016
- Yi-Min Wang and Pi-Yu Chung Endowed Research Award, ECE Dept. UIUC, 2016
- Rambus Computer Engineering Fellowship, ECE Dept. UIUC, 2015—2016
- Study Abroad Scholarship, Ministry of Education, Taiwan, 2013—2014
- 2nd Place, ACM Student Research Competition Grand Final, ACM Annual Award Banquet, 2011
- Best Master’s Thesis Award, Taiwan Institute of Electrical and Electronic Engineering, 2011
- Best Master’s Thesis Award, IEEE Taiwan Tainan Section, 2011
- Best Master’s Thesis Award, Taiwan Institute of Information and Computing Machinery, 2011
- 1st Place, Master’s Thesis Contest, Chinese Institute of Electrical Engineering, Taiwan, 2011
- Outstanding Graduate Recruiting Fellowship, National Cheng Kung University, 2010
- Outstanding Student Scholarship, Garmin Corporation, Taiwan, 2010
- 1st Place, ACM/SIGDA Student Research Competition, Design Automation Conference, 2010
- 3rd Place, National Collegiate Cell-Based IC Design Contest, Ministry of Education, Taiwan, 2010
- Distinguished Engineering Student Fellowship, Chinese Institute of Engineers, Taiwan, 2009
- 1st Place, National Collegiate Nano Device CAD Contest, Nano Device Laboratories, Taiwan, 2009
- 3rd Place, National Collegiate Programming Contest, Ministry of Education, Taiwan, 2009
- 2nd Place, National Collegiate IC/CAD Programming Contest, Ministry of Education, Taiwan, 2009
- 2nd Place, Presidential Award in CS Department, National Cheng Kung University, Taiwan, 2009

RESEARCH GRANTS

Co-Design of Chiral Quantum Photonic Devices and Circuits

Co-PI, \$400K, NSF, DMR-2235276

Aug 2023 – July 2025

Toward a Task-parallel Programming Ecosystem for Modern Scientific Computing

PI, \$298K, NSF, TI-2229304/-2349144

Sep 2022 – Aug 2024

GPU Acceleration for Satisfiability Solver

PI, \$5K (hardware donation), Intel

Oct 2022

Developer Training Programs for Taskflow

PI, \$5K, NumFOCUS Small Development Grant

Sep 2022 – May 2023

Transpiling Parallel Task Graph Programming Models for Scientific Software

PI, \$488K, NSF, OAC-2209957/-2349143

July 2022 – July 2025

Taskflow with Constrained Parallelism

PI, \$16K, NSF, CCF-2126672 (REU supplement)

Aug 2022 – Aug 2023

Accelerating Static Timing Analysis with Intelligent Heterogeneous Parallelism

PI, \$500K, NSF, CCF-2144523/-2349582 (CAREER)

Jan 2022 – Jan 2027

GPU Acceleration for Static Timing Analysis

PI, \$10K (hardware donation), Nvidia Applied Research Acceleration Program

Nov 2021

A General-purpose Heterogeneous Task Graph Computing System for VLSI CAD

PI, \$403K, NSF, CCF-2126672/-2349141

Oct 2021 – Oct 2024

Standard GPU Algorithms with Task Graph Parallelism

PI, \$5K, NumFOCUS Small Development Grant

May 2021 – Feb 2022

Taskflow-San: Sanitizing Erroneous Control Flows in Taskflow

PI, \$5K, NumFOCUS Small Development Grant

May 2021 – Feb 2022

OpenTimer and DtCraft

PI, \$427K, DARPA, FA 8650-18-2-7843

June 2018 – July 2019

CONFERENCE PUBLICATION

1. Shui Jiang, Yi-Hua Chung, Chih-Chun Chang, Tsung-Yi Ho, and Tsung-Wei Huang, "BQSim: GPU-accelerated Batch Quantum Circuit Simulation using Decision Diagram," *ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, Rotterdam, Netherlands, 2025
2. Serhan Gener, Sahil Hassan, Liangliang Chang, Chaitali Chakrabarti, Tsung-Wei Huang, Umit Ogras, and Ali Akoglu, "A Unified Portable and Programmable Framework for Task-Based Execution and Dynamic Resource Management on Heterogeneous Systems," *ACM International Workshop on Extreme Heterogeneity Solutions (ExHET)*, Las Vegas, Nevada, 2025
3. Wan-Luan Lee, Dian-Lun Lin, Cheng-Hsiang Chiu, Ulf Schlichtmann, and Tsung-Wei Huang, "HyperG: Multilevel GPU-Accelerated k-way Hypergraph Partitioner," *IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC)*, Tokyo, Japan, 2025
4. Boyang Zhang, Che Chang, Cheng-Hsiang Chiu, Dian-Lun Lin, Yang Sui, Chih-Chun Chang, Yi-Hua Chung, Wan-Luan Lee, Zizheng Guo, Yibo Lin, and Tsung-Wei Huang, "iTAP: An Incremental Task Graph Partitioner for Task-parallel Static Timing Analysis," *IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC)*, Tokyo, Japan, 2025
5. Che Chang, Boyang Zhang, Cheng-Hsiang Chiu, Dian-Lun Lin, Yi-Hua Chung, Wan-Luan Lee, Zizheng Guo, Yibo Lin, and Tsung-Wei Huang, "PathGen: An Efficient Parallel Critical Path Generation Algorithm," *IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC)*, Tokyo, Japan, 2025
6. Cheng-Hsiang Chiu, Chedi Morchdi, Yi Zhou, Boyang Zhang, Che Chang, and Tsung-Wei Huang, "Reinforcement Learning-generated Topological Order for Dynamic Task Graph Scheduling," *IEEE High-performance and Extreme Computing Conference (HPEC)*, MA, 2024
7. Zizheng Guo, Zuodong Zhang, Wuxi Li, Tsung-Wei Huang, Xizhe Shi, Yufan Du, Yibo Lin, Runsheng Wang, and Ru Huang, "HeteroExcept: Heterogeneous Engine for General Timing Path Exception Analysis," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, New York, 2024
8. Chih-Chun Chang, Boyang Zhang, and Tsung-Wei Huang, "GSAP: A GPU-Accelerated Stochastic Graph Partitioner" *ACM International Conference on Parallel Processing (ICPP)*, Gotland, Sweden, 2024
9. Shui Jiang, Rongliang Fu, Lukas Burgholzer, Robert Wille, Tsung-Yi Ho, and Tsung-Wei Huang, "FlatDD: A High-Performance Quantum Circuit Simulator using Decision Diagram and Flat Array," *ACM International Conference on Parallel Processing (ICPP)*, Gotland, Sweden, 2024
10. Dian-Lun Lin, Joshua San Miguel, Umit Ogras, Tsung-Wei Huang, "TaroRTL: Accelerating RTL Simulation using Coroutine-based Heterogeneous Task Graph Scheduling," *International European Conference on Parallel and Distributed Computing (Euro-Par)*, Madrid, Spain, 2024

11. Wan Luan Lee, Dian-Lun Lin, Tsung-Wei Huang, Shui Jiang, Tsung-Yi Ho, Yibo Lin, and Bei Yu, "G-kway: Multilevel GPU-Accelerated k-way Graph Partitioner," *ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, 2024
12. Che Chang, Tsung-Wei Huang, Dian-Lun Lin, Guannan Guo, and Shiju Lin, "Ink: Efficient Incremental k-Critical Path Generation," *ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, 2024
13. Boyang Zhang, Dian-Lun Lin, Che Chang, Cheng-Hsiang Chiu, Bojue Wang, Wan Luan Lee, Chih-Chun Chang, Donghao Fang, and Tsung-Wei Huang, "G-PASTA: GPU Accelerated Partitioning Algorithm for Static Timing Analysis," *ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, 2024
14. Shiju Lin, Guannan Guo, Tsung-Wei Huang, Weihua Sheng, Evangeline Young, and Martin Wong, "GCS-Timer: GPU-Accelerated Current Source Model Based Static Timing Analysis," *ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, 2024
15. Jie Tong, Liangliang Chang, Umit Yusuf Ogras, and Tsung-Wei Huang, "BatchSim: Parallel RTL Simulation using Inter-cycle Batching and Task Graph Parallelism," *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, Knoxville, Tennessee, 2024
16. Che Chang, Cheng-Hsiang Chiu, Boyang Zhang, and Tsung-Wei Huang, "Incremental Critical Path Generation for Dynamic Graphs," *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, Knoxville, Tennessee, 2024
17. Cheng-Hsiang Chiu and Tsung-Wei Huang, "An Experimental Study of Dynamic Task Graph Parallelism for Large-Scale Circuit Analysis Workloads," *IEEE Computer Society Annual Symposium on VLSI (ISVLSI)*, Knoxville, Tennessee, 2024
18. Shao-Hung Chan, Zhe Chen, Dian-Lun Lin, Yue Zhang, Daniel Harabor, Tsung-Wei Huang, Sven Koenig, and Thomy Phan, "Anytime Multi-Agent Path Finding using Operator Parallelism in Large Neighborhood Search," *International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, Auckland, New Zealand, 2024
19. Tsung-Wei Huang, Boyang Zhang, Dian-Lun Lin, and Cheng-Hsiang Chiu, "Parallel and Heterogeneous Timing Analysis: Partition, Algorithm, and System," *ACM International Symposium on Physical Design (ISPD)*, Taipei, Taiwan, 2024
20. Cheng-Hsiang Chiu, Zhicheng Xiong, Zizheng Guo, Tsung-Wei Huang, and Yibo Lin, "An Efficient Task-parallel Pipeline Programming Framework," *ACM International Conference on High-performance Computing in Asia-Pacific Region (HPC Asia)*, Nagoya, Japan, 2024
21. Zizheng Guo, Tsung-Wei Huang, Jin Zhou, Cheng Zhuo, Yibo Lin, Runsheng Wang, and Ru Huang, "Heterogeneous Static Timing Analysis with Advanced Delay Calculator," *IEEE/ACM Design, Automation and Test in Europe Conference (DATE)*, Valencia, Spain, 2024
22. Chedi Morchdi, Cheng-Hsiang Chiu, Yi Zhou, and Tsung-Wei Huang, "A Resource-efficient Task Scheduling System using Reinforcement Learning," *IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC)*, Korea, 2024
23. Cheng-Hsiang Chiu, Dian-Lun Lin, and Tsung-Wei Huang, "Programming Dynamic Task Parallelism for Heterogeneous EDA Algorithms," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Diego, 2023
24. Takashi Sato, Chun-Yao Wang, Yu-Guang Chen, and Tsung-Wei Huang, "Overview of 2023 CAD Contest at ICCAD," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Diego, 2023
25. Shui Jiang, Tsung-Wei Huang, and Tsung-Yi Ho, "GLARE: Accelerating Sparse DNN Inference Kernels with Global Memory Access Reduction," *IEEE High Performance Extreme Computing (HPEC)*, Virtual, 2023 (**Graph Challenge Innovation Award**)
26. Chih-Chun Chang and Tsung-Wei Huang, "GLARE: Accelerating Sparse DNN Inference Kernels with Global Memory Access Reduction," *IEEE High Performance Extreme Computing (HPEC)*, Virtual, 2023 (**Graph Challenge Innovation Award**)

27. Shui Jiang, Tsung-Wei Huang, Bei Yu, and Tsung-Yi Ho, "SNICIT: Accelerating Sparse Neural Network Inference via Compression at Inference Time on GPU," *ACM International Conference on Parallel Processing (ICPP)*, Salt Lake City, Utah, 2023
28. Dian-Lun Lin, Yanqing Zhang, Haoxing Ren, Shih-Hsin Wang, Brucek Khailany, and Tsung-Wei Huang, "GenFuzz: GPU-accelerated Hardware Fuzzing using Genetic Algorithm with Multiple Inputs," *ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, 2023
29. Tsung-Wei Huang, "qTask: Task-parallel Quantum Circuit Simulation with Incrementality," *IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, St. Petersburg, Florida, 2023
30. Elmir Dzaka, Dian-Lun Lin, and Tsung-Wei Huang, "Parallel And-Inverter Graph Simulation Using a Task-graph Computing System," *IEEE International Parallel and Distributed Processing Symposium Workshop (IPDPSW)*, St. Petersburg, Florida, 2023
31. Guannan Guo, Martin D. F. Wong, and Tsung-Wei Huang, "Fast STA Graph Partitioning Framework for Multi-GPU Acceleration," *IEEE/ACM Design, Automation and Test in Europe Conference (DATE)*, Antwerp, Belgium, 2023
32. Tsung-Wei Huang and Leslie Hwang, "Task-parallel Programming with Constrained Parallelism," *IEEE High-performance Extreme Computing (HPEC)*, Waltham, MA, 2022
33. Tsung-Wei Huang, "Enhancing the Performance Portability of Heterogeneous Circuit Analysis Programs," *IEEE High-performance Extreme Computing (HPEC)*, Waltham, MA, 2022
34. Dian-Lun Lin, Haoxing Ren, Yanqing Zhang, Brucek Khailany, and Tsung-Wei Huang, "From RTL to CUDA: A GPU Acceleration Flow for RTL Simulation with Batch Stimulus," *ACM International Conference on Parallel Processing (ICPP)*, Bordeaux, France, 2022
35. Cheng-Hsiang Chiu and Tsung-Wei Huang, "Composing Pipeline Parallelism using Control Taskflow Graph," *ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC)*, Minneapolis, Minnesota, 2022
36. Yu-Guan Chen, Chun-Yao Wang, Tsung-Wei Huang, and Takashi Sato, "Overview of 2022 CAD Contest at ICCAD," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Diego, CA, 2022
37. Cheng-Hsiang Chiu and Tsung-Wei Huang, "Efficient Timing Propagation with Simultaneous Structural and Pipeline Parallelisms," *ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, 2022
38. Tsung-Wei Huang and Yibo Lin, "Concurrent CPU-GPU Task Programming using Modern C++," *International Workshop on High-Level Parallel Programming Models and Supportive Environments (HIPS)*, France, 2022
39. Kexing Zhou, Zizheng Guo, Tsung-Wei Huang, and Yibo Lin, "Efficient Critical Paths Search Algorithm using Mergeable Heap," *IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC)*, Taiwan, 2022
40. Guannan Guo, Tsung-Wei Huang, and Martin Wong, "GPU-accelerated Path-based Timing Analysis," *ACM/IEEE Design Automation Conference (DAC)*, CA, 2021
41. Zizheng Guo, Tsung-Wei Huang, and Yibo Lin, "A Provably Good and Practically Efficient Common Path Pessimism Removal Algorithm for Large Designs," *ACM/IEEE Design Automation Conference (DAC)*, CA, 2021
42. McKay Mower, Luke Majors, and Tsung-Wei Huang, "Taskflow-San: Sanitizing Erroneous Control Flow in Taskflow Programs," *IEEE Workshop on Extreme Scale Programming Models and Middleware (ESPM2)*, St. Louis, Missouri, 2021
43. Tsung-Wei Huang, "TFProf: Profiling Large Taskflow Programs with Modern D3 and C++," *IEEE International Workshop on Programming and Performance Visualization Tools (ProTools)*, St. Louis, Missouri, 2021
44. Dian-Lun Lin and Tsung-Wei Huang, "Efficient GPU Computation using Task Graph Parallelism," *European Conference on Parallel and Distributed Computing (Euro-Par)*, Portugal, 2021
45. Yasin Zamani and Tsung-Wei Huang, "A High-Performance Heterogeneous Critical Path Analysis Framework," *IEEE High-performance Extreme Computing (HPEC)*, Waltham, MA, 2021

46. Cheng-Hsiang Chiu, Dian-Lun Lin and Tsung-Wei Huang, "An Experimental Study of SYCL Task Graph Parallelism for Large-Scale Machine Learning Workloads," *International Workshop of Asynchronous Many-Task Systems for Exascale (AMTE)*, 2021
47. Zizheng Guo, Tsung-Wei Huang, and Yibo Lin, "HeteroCPPR: Accelerating Common Path Pessimism Removal with Heterogeneous CPU-GPU Parallelism," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, Germany, 2021
48. Guannan Guo, Tsung-Wei Huang, Yibo Lin, and Martin D. F. Wong, "GPU-accelerated Critical Path Generation with Path Constraints," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, Germany, 2021
49. Tsung-Wei Huang, Yu-Guan Chen, Chun-Yao Wang, and Takashi Sato, "Overview of 2021 CAD Contest at ICCAD," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, Germany, 2021
50. Kuan-Ming Lai, Tsung-Wei Huang, Pei-Yu Lee, and Tsung-Yi Ho, "ATM: A High Accuracy Extracted Timing Model for Hierarchical Timing Analysis," *IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC)*, Tokyo, Japan, 2021
51. Chun-Xun Lin, Tsung-Wei Huang, and Martin D. F. Wong, "An Efficient Work-Stealing Scheduler for Task Dependency Graph," *IEEE International Conference on Parallel and Distributed Systems (ICPADS)*, Hong Kong, 2020
52. Dian-Lun Lin and Tsung-Wei Huang, "A Novel Inference Algorithm for Large Sparse Neural Network using Task Graph Parallelism," *IEEE High-performance Extreme Computing (HPEC)*, Waltham, MA, 2020 (**Graph Challenge Champion Award**)
53. Zizheng Guo, Tsung-Wei Huang, and Yibo Lin, "GPU-Accelerated Static Timing Analysis," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Diego, 2020
54. Tsung-Wei Huang, "A General-purpose Parallel and Heterogeneous Task Programming System for VLSI CAD," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Diego, 2020
55. Ing-Chao Lin, Ulf Schlichtmann, Tsung-Wei Huang, and Pao-Hun Lin, "Overview of 2020 CAD Contest at ICCAD," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Diego, 2020
56. Guannan Guo, Tsung-Wei Huang, Chun-Xun Lin, and Martin D. F. Wong, "An Efficient Critical Path Generation Algorithm Considering Extensive Path Constraints," *ACM/IEEE Design Automation Conference (DAC)*, San Francisco, CA, 2020
57. Chun-Xun Lin, Tsung-Wei Huang, Guannan Guo, and Martin D. F. Wong, "A Modern C++ Parallel Task Programming Library," *ACM Multimedia Conference (MM)*, Nice, France, 2019 (**Second Prize of Open-Source Software Competition**)
58. Chun-Xun Lin, Tsung-Wei Huang, Guannan Guo, and Martin D. F. Wong, "An Efficient and Composable Parallel Programming Library," *IEEE High-performance Extreme Computing (HPEC)*, Waltham, MA, 2019
59. Tsung-Wei Huang, Chun-Xun Lin, Guannan Guo, and Martin D. F. Wong, "Cpp-Taskflow: Fast Task-based Parallel Programming using Modern C++," *IEEE International Parallel and Distributed Processing Symposium (IPDPS)*, Rio De Janeiro, Brazil, 2019
60. Kuan-Ming Lai, Tsung-Wei Huang, and Tsung-Yi Ho, "A General Cache Framework for Efficient Generation of Timing Critical Paths," *ACM/IEEE Design Automation Conference (DAC)*, Las Vegas, NV, 2019
61. Tsung-Wei Huang, Chun-Xun Lin, Guannan Guo, and Martin D. F. Wong, "Essential Building Blocks for Creating an Open-source EDA Project," *ACM/IEEE Design Automation Conference (DAC)*, Las Vegas, NV, 2019
62. Tsung-Wei Huang, Chun-Xun Lin, and Martin D. F. Wong, "Distributed Timing Analysis at Scale," *ACM/IEEE Design Automation Conference (DAC)*, Las Vegas, NV, 2019
63. Tsung-Wei Huang, Chun-Xun Lin, Guannan Guo, and Martin D. F. Wong, "A General-purpose Distributed Programming Systems using Data-parallel Streams," *ACM Multimedia Conference (MM)*, Seoul, Korea, 2018 (**Best Open-Source Software Award**)

64. Chun-Xun Lin, Tsung-Wei Huang, Guannan Guo, and Martin D. F. Wong, "MtDetector: A High-performance Marine Traffic Detector at Stream Scale," *ACM Distributed Event-based System Conference (DEBS)*, Hamilton, New Zealand, 2018
65. Chun-Xun Lin, Tsung-Wei Huang, T. Yu, and Martin D. F. Wong, "A Distributed Power Grid Analysis Framework from Sequential Stream Graph," *ACM Great Lakes Symposium (GLSVLSI)*, Chicago, IL, 2018
66. Chun-Xun Lin, Tsung-Wei Huang, and Martin D. F. Wong, "Routing at Compile Time," *IEEE International Symposium on Quality Electronic Design (ISQED)*, Santa Clara, CA, 2018
67. Tsung-Wei Huang, Chun-Xun Lin, and Martin D. F. Wong, "DtCraft: A Distributed Execution Engine for Compute-intensive Applications," *ACM/IEEE International Conference on Computer-aided Design (ICCAD)*, Irvine, CA, 2017
68. Tin-Yin Lai, Tsung-Wei Huang, and Martin D. F. Wong, "An Effective and Accurate Macro-modeling Algorithm for Large Hierarchical Designs," *ACM/IEEE Design Automation Conference (DAC)*, Austin, TX, 2017 (First Place of TAU Timing Analysis Contest)
69. Tsung-Wei Huang, Martin D. F. Wong, D. Sinha, K. Kalafala, and N. Venkateswaran, "A Distributed Timing Analysis Framework for Large Designs," *ACM/IEEE Design Automation Conference (DAC)*, Austin, TX, 2016
70. Tsung-Wei Huang and Martin D. F. Wong, "OpenTimer: A High-performance Timing Analysis Tool," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, TX, 2015 (**2024 ICCAD 10-year Retrospective Most Influential Paper Award**)
71. Tsung-Wei Huang and Martin D. F. Wong, "On Fast Timing Closure: Speeding Up Incremental Path-Based Timing Analysis with MapReduce," *IEEE/ACM International Workshop on System-level Interconnect Prediction (SLIP)*, CA, 2015
72. Tsung-Wei Huang and Martin D. F. Wong, "Accelerated Path-Based Timing Analysis with MapReduce," *ACM International Symposium on Physical Design (ISPD)*, Monterey, CA, 2015
73. Tsung-Wei Huang, P.-C. Wu, and Martin D. F. Wong, "Fast Path-Based Timing Analysis for CPPR," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Jose, CA, 2014 (First Place of TAU Timing Analysis Contest)
74. Tsung-Wei Huang, P.-C. Wu, and Martin D. F. Wong, "UI-Timer: An Ultra-Fast Clock Network Pessimism Removal Algorithm," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Jose, CA, 2014
75. Tsung-Wei Huang, P.-C. Wu, and Martin D. F. Wong, "UI-Route: An Ultra-Fast Incremental Maze Routing Algorithm," *IEEE/ACM International Workshop on System-level Interconnect Prediction (SLIP)*, San Francisco, CA, 2014
76. S.-H. Yeh, J.-W. Chang, Tsung-Wei Huang, and Tsung-Yi Ho, "Voltage-Aware Chip-Level Design for Reliability-Driven Pin-Constrained EWOD Chips," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Jose, CA, 2012
77. Tsung-Wei Huang, J.-W. Chang, and Tsung-Yi Ho, "Integrated Fluidic-Chip Co-Design Methodology for Digital Microfluidic Biochips," *ACM International Symposium on Physical Design (ISPD)*, Napa, CA, 2012
78. J.-W. Chang, Tsung-Wei Huang, and Tsung-Yi Ho, "An ILP-based Obstacle-Avoiding Routing Algorithm for Pin-Constrained EWOD Chips," *IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC)*, Sydney, Australia, 2012
79. Tsung-Wei Huang, Tsung-Yi Ho, and K. Chakrabarty, "Reliability-Oriented Broadcast Electrode-Addressing for Pin-Constrained Digital Microfluidic Biochips," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, San Jose, CA, 2011
80. Tsung-Wei Huang, Yan-You Lin, J.-W. Chang, and Tsung-Yi Ho, "Recent Research and Emerging Challenges in the Designs and Optimizations for Digital Microfluidic Biochips," *IEEE System on Chip Conference (SOCC)*, 2011.
81. Tsung-Wei Huang, Yan-You Lin, J.-W. Chang, and Tsung-Yi Ho, "Chip-Level Design and Optimization for Digital Microfluidic Biochips," *IEEE International Midwest Symposium on Circuits and Systems (MWSCAS)*, 2011.

82. P.-H. Yuh, C. C.-Y. Lin, Tsung-Wei Huang, Tsung-Yi Ho, C.-L. Yang, and Y.-W. Chang, "A SAT-Based Routing Algorithm for Cross-Referencing Biochips," *IEEE/ACM International Workshop on System-level Interconnect Prediction (SLIP)*, San Diego, CA, June 2011.
83. Tsung-Wei Huang, H.-Y. Su, and Tsung-Yi Ho, "Progressive Network-Flow Based Broadcast Addressing for Pin-Constrained Digital Microfluidic Biochips," *ACM/IEEE Design Automation Conference (DAC)*, pp. 741—746, San Diego, CA, June 2011.
84. Tsung-Wei Huang, S.-Y. Yeh, and Tsung-Yi Ho, "A Network-Flow Based Pin-Count Aware Routing Algorithm for Broadcast Electrode-Addressing EWOD Chips," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, pp. 425-431, San Jose, CA, 2010.
85. Tsung-Wei Huang and Tsung-Yi Ho, "A Two-Stage Integer-Linear-Programming Based Droplet Routing Algorithm for Pin-Constrained Digital Microfluidic Biochips," *ACM International Symposium on Physical Design (ISPD)*, pp. 201—208, San Francisco, CA, 2010.
86. Tsung-Wei Huang, C.-H. Lin, and Tsung-Yi Ho, "A Contamination-Aware Droplet Routing Algorithm for Digital Microfluidic Biochips," *IEEE/ACM International Conference on Computer-aided Design (ICCAD)*, pp. 151—156, San Jose, CA, 2009.
87. Tsung-Wei Huang and Tsung-Yi Ho, "A Fast Routability- and Performance-Driven Droplet Routing Algorithm for Digital Microfluidic Biochips," *IEEE International Conference on Computer Design (ICCD)*, pp. 445—450, Lake Tahoe, CA, 2009

JOURNAL PUBLICATION

1. G. Guo, Tsung-Wei Huang, Y. Lin, Z. Guo, S. Yellapragada, and M. D. F. Wong, "A GPU-Accelerated Framework for Path-Based Timing Analysis," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 42, no. 11, pp. 4219-4232, Nov. 2023
2. Zizheng Guo, Tsung-Wei Huang, and Yibo Lin, "Accelerating Static Timing Analysis using CPU-GPU Heterogeneous Parallelism," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 32, no. 12, pp. 4973-4984, Dec. 2023
3. Dian-Lun Lin and Tsung-Wei Huang, "Accelerating Large Sparse Neural Network Inference using GPU Task Graph Parallelism," *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, vol. 33, no. 11, pp. 3041—3052, Nov 2022
4. Tsung-Wei Huang, Dian-Lun Lin, Chun-Xun Lin, and Yibo Lin, "Taskflow: A Lightweight Parallel and Heterogeneous Task Graph Computing System," *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, vol. 33, no. 6, pp. 1303—1320, June 2022
5. Zizheng Guo, Mingwei Yang, Tsung-Wei Huang, and Yibo Lin, "A Provably Good and Practically Efficient Algorithm for Common Path Pessimism Removal in Large Designs," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 41, no. 10, pp. 3466—3478, Oct. 2022
6. Jia-Ruei Yu, Chun-Hsien Chen, Tsung-Wei Huang, Jang-Jih Lu, Chia-Ru Chung, Ting-Wei Lin, Min-Hsien Wu, Yi-Ju Tseng, Hsin-Yao Wang, "Energy Efficiency of Inference Algorithms for Medical Datasets: A Green AI study," *Journal of Medical Internet Research (JMIR)*, vol. 24, no. 1, Jan. 2022
7. Tsung-Wei Huang, Dian-Lun Lin, Yibo Lin, and Chun-Xun Lin, "Taskflow: A General-purpose Parallel and Heterogeneous Task Programming System," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 41, no. 5, pp. 1448—1452, May 2022
8. Tsung-Wei Huang, Chun-Xun Lin, and Martin. D. F. Wong, "OpenTimer v2: A Parallel Incremental Timing Analysis Engine," *IEEE Design and Test (DAT)*, vol. 38, no. 2, pp. 62—68, April 2021
9. Tsung-Wei Huang, Yibo Lin, Chun-Xun Lin, Guannan Guo, and Martin. D. F. Wong, "Cpp-Taskflow: A General-purpose Parallel Task Programming System at Scale," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 40, no. 8, pp. 1687—1700, Aug. 2021
10. Tsung-Wei Huang, Guannan Guo, Chun-Xun Lin, and Martin. D. F. Wong, "OpenTimer v2: A New Parallel Incremental Timing Analysis Engine," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 40, no. 4, pp. 776—789, April, 2021

11. Tsung-Wei Huang, Chun-Xun Lin, and Martin D. F. Wong, "DtCraft: A High-performance Distributed Execution Engine at Scale," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 38, no. 6, pp. 1070—1083, June 2018
12. Tsung-Wei Huang and Martin D. F. Wong, "UI-Timer 1.0: An Ultra-Fast Path-Based Timing Analysis Algorithm for CPPR," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 35, no. 11, pp. 1862—1875, Nov. 2016
13. S.-H. Yeh, J.-W. Chang, Tsung-Wei Huang, S.-T. Yu, and Tsung-Yi Ho, "Voltage-Aware Chip-Level Design for Reliability-Driven Pin-Constrained EWOD Chips," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 33, no.9, pp. 1302—1315, Sep. 2014.
14. J.-W. Chen, C.-L. Hsu, L.-C. Tsai, Tsung-Wei Huang, and Tsung-Yi Ho, "An ILP-Based Routing Algorithm for Pin-Constrained EWOD Chips with Obstacle Avoidance," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 32, no.11, pp. 1655—1667, Nov. 2013.
15. Y.-H. Chen, C.-L. Hus, Tsung-Wei Huang, and Tsung-Yi Ho, "A Reliability-Oriented Placement Algorithm for Reconfigurable Digital Microfluidic Biochips using 3D Deferred Decision-Making Technique," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 32, no. 8, pp. 1151—1162, Aug. 2013.
16. J.-W. Chang, S.-H. Yeh, Tsung-Wei Huang, and Tsung-Yi Ho, "Integrated Fluidic-Chip Co-Design Methodology for Digital Microfluidic Biochips," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 32, no 2, pp. 216—227, Feb. 2013.
17. Tsung-Wei Huang, S.-Y. Yeh, and Tsung-Yi Ho, "A Network-Flow Based Pin-Count Aware Routing Algorithm for Broadcast-Addressing EWOD Chips," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 30, no. 12, pp. 1786—1799, Dec. 2011.
18. Tsung-Wei Huang and Tsung-Yi Ho, "A Two-Stage Integer-Linear-Programming Based Droplet Routing Algorithm for Pin-Constrained Digital Microfluidic Biochips," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 30, no. 2, pp. 215—228, Feb. 2011.
19. Tsung-Wei Huang, C.-H. Lin, and Tsung-Yi Ho, "A Contamination-Aware Droplet Routing Algorithm for the Synthesis of Digital Microfluidic Biochips," *IEEE Transactions on Computer-aided Design of Integrated Circuits and Systems (TCAD)*, vol. 29, no. 11, pp. 1682—1695, Nov. 2010.

PATENT

Incremental Common Path Pessimism Analysis	USA-14/946043
Tsung-Wei Huang, K. Kalafala, D. Sinha, and N. Venkateswaran	
Distributed Timing Analysis of a Partitioned Integrated Circuit Design	USA-9916405B2
Tsung-Wei Huang, K. Kalafala, D. Sinha, and N. Venkateswaran	

TALK

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1. "Intelligent High-performance Computing," Arizona State University, Oct 2024
 2. "Scientific Research and Grant Writing," DAC Early Career Workshop, June 2024
 3. "Taskflow: A General-purpose Task-parallel Programming System," Rapid Silicon, June 2024
 4. "Intelligent High-performance Computing," University of Colorado Boulder, June 2024
 5. "Intelligent High-performance Computing," University at Buffalo, May 2024
 6. "Taskflow: A General-purpose Task-parallel Programming System," Cpp Rusia, May 2024
 7. "Taskflow: A General-purpose Task-parallel Programming System," UCLA VAST Lab, April 2024
 8. "Taskflow: A General-purpose Task-parallel Programming System," Cadence, April 2024
 9. "Taskflow: A General-purpose Task-parallel Programming System," UC Santa Cruz, March 2024
 10. "Taskflow: A General-purpose Task-parallel Programming System," FlexCompute Inc, Feb 2024
 11. "Taskflow: A General-purpose Task-parallel Programming System," Chinese Univ of HK, Jan 2024
 12. "Taskflow: A General-purpose Task-parallel Programming System," China Univ of Petroleum, Oct 2023
 13. "Quantum Circuit Simulation with Incrementality," University at Buffalo, June 2023

14. "Intelligent High-performance Computing," Technical University of Munich, June 2023
15. "Taskflow: A General-purpose Task-parallel Programming System," Univ of Notre Dame, May 2023
16. "A General-purpose Task-parallel Programming System," Cruise LLC, April 2023
17. "Performance Portability and Optimization using Machine Learning," PNNL-Utah Seminar, Nov 2022
18. "Intelligent Heterogeneous Parallelism," ACCESS-CEDA Seminar Series, Hong Kong, Sep 2022
19. "Intelligent Heterogeneous Parallelism," CS Department, UC Merced, Sep 2022
20. "Programming System for Building High-performance CAD Applications," Google X, Sep 2022
21. "A General-purpose Parallel and Heterogeneous Task Programming System," AMD, Aug 2022
22. "A GPU Acceleration Flow for RTL Simulation with Batch Stimulus," Invited Talk, IWLS, July 2022
23. "Intelligent Heterogeneous Computing," AMD Research, June 2022
24. "Intelligent Heterogeneous Computing," ECE Department, Johns Hopkins University, March 2022
25. "Intelligent Heterogeneous Computing," ECE Department, Stevens Institute of Technology, 2022
26. "Intelligent Heterogeneous Computing," ECE Department, University of Minnesota, Feb 2022
27. "Taskflow: A General-purpose Heterogeneous Task Programming System," IXPUG, 2021
28. "cudaFlow: A Modern C++ Programming Model for GPU Task Graph Parallelism," CppCon, 2021
29. "A General-purpose Heterogeneous Task Computing System," Chinese Univ of HK, Aug 2021
30. "HeteroTime: Accelerating Static Timing Analysis with GPUs," Nvidia Research, June 2021
31. "Taskflow: A Lightweight Heterogeneous Task Programming System," CPPNow, 2021
32. "GPU-Accelerated Static Timing Analysis and Beyond," GTC, April 2021
33. "Machine Learning-enabled System for EDA," VLSI-DAT, April 2021
34. "GPU-Accelerated Static Timing Analysis," UC Santa Cruz, EDA Seminar, Feb 2021
35. "A General-purpose Heterogeneous Task Programming System," CIE/USA-GNYC, Oct 2020
36. "Taskflow: Parallel and Heterogeneous Task Programming in C++," C++ Meetup, Oct 2020
37. "Taskflow: A General-purpose Heterogeneous Task Programming System," CppIndia, Oct 2020
38. "Taskflow: A General-purpose Heterogeneous Task Programming System," MUC++, Oct 2020
39. "Programming Systems for Parallelizing VLSI CAD and Beyond," VLSI-DAT, April 2020
40. "A General-purpose Heterogeneous Task Programming System at Scale," ORNL, March 2020
41. "Growing Your Open-Source Projects," WOSET at IEEE/ACM ICCAD, November 2019
42. "Essential Building Blocks for Creating an Open-source EDA Project," IEEE/ACM DAC, June 2019
43. "Task-based Parallel Programming using Modern C++", CSL Social Hour, Sep 2018
44. "Distributed Timing Analysis in 100 Lines of Code," VSD webinar, May 2018
45. "DtCraft: A High-performance Distributed Execution Engine at Scale," CSLSC, UIUC, 2018
46. "OpenTimer: An open-source high-performance timing analysis tool," ORCONF, Italy, 2016
47. "Distributed Timing Analysis: Framework and Systems," Cadence, Austin, June 2016
48. "OpenTimer: A High-performance Timing Analysis Tool," Invited Talk, ICCAD, 2015
49. "Fast Path-based Timing Analysis," Invited Talk, ICCAD, 2014

PH.D. STUDENTS

Dian-Lun Lin	Spring 2020 – Aug 2024
Thesis: Task-parallel Heterogeneous Programming System for Logic Simulation	
Guannan Guo (co-supervised with Prof. Martin Wong at UIUC)	Aug 2018 – Dec 2023
Thesis: Parallel and Heterogeneous Computing for Static Timing Analysis	
Cheng-Hsiang Chiu	Fall 2020 – present
Thesis: Asynchronous Many-task Systems with Intelligent Scheduling	
Jie Tong (co-supervised with Prof. Umit Ogras)	Fall 2023 – present
Thesis: TBD	
Che Chang	Spring 2022 – present
Thesis: TBD	

Wan-Luan Lee Thesis: TBD	Spring 2022 – present
Chih-Chun Chang Thesis: TBD	Spring 2023 – present
Boyang Zhang Thesis: TBD	Spring 2023 – present
Yi-Hua Chung Thesis: TBD	Fall 2023 – present

WORK EXPERIENCE

Software Engineer, High-performance Computing Group, Citadel, IL Developed machine learning benchmarks and optimization tips for financial workloads	May 2017 – Aug 2017
Software Engineer, Timing Analysis Group, IBM, NY Developed a distributed timing analysis prototype atop Einstimer	May 2015 – Aug 2015
Software Engineer, Timing Analysis Group, IBM, NY Developed optimization algorithms for tag-based incremental timing analysis	May 2014 – Aug 2014

SERVICE

Grant Review Panelist

Evaluated grant proposals based on intellectual merit and broader impacts

- NSF Office of Advanced Cyberinfrastructure (OAC)
- NSF Principles and Practice of Scalable Systems (PPoSS)
- NSF Cyber-physical Systems (CPS)
- NSF Software and Hardware Foundations (SHF)
- DOE Advanced Scientific Computing Research (ASCR)
- DOE High Energy Physics (HEP)

Workshop Organization

Organized workshops and meetings to foster collaboration in CAD, HPC, and Quantum

- NSF FuSe Workshop on Intelligent Photonic Materials, Devices, and Systems, 2024
- NSF FuSe Workshop on Quantum Computing and Systems, 2024
- ACM/IEEE DAC Open-source Bird of Feather, 2024

Chair/Co-chair

Engaged widespread contributions to solving cutting-edge HPC and CAD problems

- IEEE/ACM ICCAD CAD Contests, 2020–2023
- ACM SIGDA CADathlon International Programming Contest, 2018–2021
- ACM TAU Timing Analysis Contest, 2018

Program Committee

Selected top-quality papers and organized conference programs

- IEEE/ACM Design, Automation and Test in Europe Conference (DATE), 2025
- IEEE/ACM International Conference on Computer-aided Design (ICCAD), 2019–2022, 2024
- IEEE/ACM International Symposium on Microarchitecture (MICRO), 2024
- ACM/IEEE International Symposium on Machine Learning for CAD (MLCAD), 2024–2024
- IEEE Computer Society Annual Symposium on VLSI (ISVLSI), 2023–2024
- IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2024
- ACM/IEEE International Conference for High Performance Computing (SC), 2023
- ACM/IEEE Design Automation Conference (DAC), 2022–2025
- ACM International Workshop on Timing Issues (TAU), 2020–2021
- IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC), 2020–2021
- IEEE International Conference on Computer Design (ICCD), 2020–2021

- International Workshop on Logic Synthesis (IWLS), 2020
- C++ Conference (CppCon), 2019–2021

Editorship

Managed peer-review processes and recommended what gets published

- Guest editor, Special Issue of VLSI Integration, 2022

Journal Reviewers

Evaluated submitted papers and recommended acceptance/rejection

- IEEE Transactions on Parallel and Distributed Computing Systems (TPDS)
- IEEE Transactions on Computer-aided Design for Integrated Circuits and Systems (TCAD)
- IEEE Transactions on Very Large-scale Integration (TVLSI)
- IEEE Transactions on Circuits and Systems (TCAS)
- IEEE Transactions on Big Data (TBD)
- IEEE Transactions on Architecture and Code Optimization (TACO)
- ACM Transaction son Design Automation of Electronic Systems (TODAES)
- ACM Journal of Emerging Technologies in Computing Systems (JETC)
- VLSI Integration Journal
- Concurrency and Computation: Practice and Experience
- Software X
- Journal of Computational Science

Departmental Committee at the University of Wisconsin at Madison

Helped the ECE department enhance various research and teaching programs

- Faculty Search Committee, 2024–Now
- Undergraduate Advisory Committee, 2024–Now
- MS Accelerated Committee, 2024–Now
- Graduate Student and Admission Committee, 2023–Now

Departmental Committee at the University of Utah

Helped the ECE department enhance various research and teaching programs

- Graduate Student and Admission Committee, 2021–2023
- University of Utah Asia Campus Committee, 2021–2023
- University of Utah Asia Campus Students Summer Visit Program, 2021
- University of Utah Asia Campus faculty recruiting committee, 2021–2023
- Artificial Intelligence and Data-science faculty recruiting committee, 2020

MISCELLANEOUS

Citizenship: Taiwan

Hobby: Piano playing, hiking, camping