Bo-Han Chen 陳柏翰

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Education

National Yang Ming Chiao Tung University (NYCU) 國立陽明交通大學 — *Hsinchu, Taiwan*

M.S. in Institute of Computer Science and Engineering 資訊科學與工程研究所 — *Sep. 2023 - PRESENT*

- GPA in first semester: 4.23/4.3

National Sun Yat-sen University (NSYSU) 國立中山大學 — *Kaohsiung, Taiwan*

B.S. in Computer Science and Engineering 資訊工程學系 — *Sep. 2019 - Feb. 2023*

- Cumulative GPA of semester 1-6: 4.12/4.3
- MOST College Student Research (國科會大專生研究計畫補助)
- Departmental Research Project Competition (資工系專題競賽) 1st Place
- 2023 IEEE Applied Sensing Conference (APSCON) Paper Accepted

Coursework

2023	**Parallel Programming**, Skill: parallel programming with Pthreads, OpenMP, MPI, OpenCL and CUDA	*A+*
2023	**Data Mining**, Skill: association Rules, classification, clustering and recommendation system	*A*
2022	**Algorithm Design and Analysis**, Skill: algorithm design for numeric analysis	*A*
2022	**UNIX System Programming**, Skill: programming in UNIX Environment, shell script programming	*A*

Project

Accelerate Canny Edge Detector with Parallel Programming — *National Yang Ming Chiao Tung University (NYCU)*

CUDA Implementation — *Sep. 2023 - Jan. 2024*

- Parallelize Canny Edge Detector with CUDA
- Skill: C++, Parallel Programming, CUDA, Image Processing
- `https://github.com/hsuanyu414/pp-f23-final-project`

User-Oriented Book Recommendation System with User Interface — *National Yang Ming Chiao Tung University (NYCU)*

Recommendation System Model Developer — *Oct. 2023 - Dec. 2023*

- Develop a book recommendation system with user-based content-based collaborative filtering
- Skill: Python, Collaborative Filtering, Content-Based Filtering, Recommendation System
- `https://github.com/bhchen2001/NYCU_Data_Mining_Final_Project`

An Effective Evolutionary Neural Architecture Search for Bike-Sharing System Demand Prediction (SAGAON) — *National Sun Yat-sen University (NSYSU)*

Deep Learning Model and Heuristic algorithm Developer — *Sep. 2021 - Feb. 2023*

- Propose an neural architecture search (NAS) system with Yun-Ye Cai and Chao-Yen Huang
- Use adaptive simulated annealing genetic algorithm (ASAGA) as searching strategy
- Advisor: Prof. Chun-Wei-Tsai
- Award: Departmental Research Project Competition (資工系專題競賽) 1st Place
- Award: MOST College Student Research (國科會大專生研究計畫補助)
- Paper Accepted: 2023 IEEE Applied Sensing Conference (APSCON)
  `https://ieeexplore.ieee.org/abstract/document/10101084`
- Skill: Python, Neural Architecture Search, Traffic Prediction
- `https://github.com/bhchen2001/SAGAON`

Examination and Awards

2022	**1st Place**, Departmental Research Project Competition (資工系專題競賽)	*NSYSU*
2022	**3rd Place**, Excellent Student Award (書卷獎)	*NSYSU*
2022	**Problem Solved: 4, Rank:56/2394 (2.3%)**, Collegiate Programming Examination (CPE)	*NSYSU*
2019	**2nd Place**, Excellent Student Award (書卷獎)	*NSYSU*
2019	**Score 840**, TOEIC	