Yu-Chen Pai

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Department of Communication Engineering

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EDUCATION

- **GPA - 4.04/4.3**

- **3 Presidential Honor Award**

SKILLS

- **Python, C, C++**

- **JavaScript, Html, CSS**

- **VS Code**

- **Google Colab**

- **Linux**

- **GitHub**

- **Pytorch**

COURSEWORK

- **Data Structures**

- **Algorithms**

- **Digital Design**

- **Computer Networks**

- **Operating Systems**

- **Microprocessor**

- **Probability**

- **Machine learning**

- **Reinforcement learning**

WORK EXPERIENCE

Summer Researcher at Academia Sinica

- Jul. 2023 - Aug. 2023
- Computer Olympiad Gomoku 4th
- Improved AlphaGo by applying threat-space search and KataGo.

AWARDS

ICPC 2021 Asia Taipei Regional Site Bronze Award

- Won a coding competition with **300+ participants**

Collegiate Programming Examination

- solved problem : 6 / 7
- rank : **24 / 2352**

AI CUP for Orchid Species Identification

- Achieved **70% accuracy** rate by PyTorch
- Outperformed **134 teams** from top universities, **organized by Ministry of Education**

PROJECTS

Enhancing BBR Algorithm for Improved Throughput in Coexistence with CUBIC

- Devised BBR-S, a novel algorithm for detecting BBR presence in the environment, ensuring improved fairness and throughput.

Physics Simulation Experiments Website

- Designed a website to display pyhsics experiments by **HTML, CSS and JavaScript**
- Used by **300+ students yearly**