CongJie Pan 潘驄杰 Curriculum Vitae



National Taiwan Normal University
Graduate Institute of Information & Computer Education | Taipei, Taiwan
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Education

09/2026 – 06/2028 **National Taiwan Normal University**
M.S. in Information and Computer Education (資訊教育研究所) | *Advisor: Prof. Chiung-Hui Chiu (邱瓊慧)*

09/2022 – 06/2026 **Chung Yuan Christian University**
B.S. in Information Management (資訊管理學系)

Publications & Research Grants

[C1] **CongJie Pan**, & Chin-Hui Lai. (2026). A classical Chinese knowledge QA system for *Dream of the Red Chamber* using retrieval-augmented dual instruction tuning. In *Proceedings of the 2026 International Conference on E-learning and Educational Technology (ICEET)*. Paper Video Code

[G1] **CongJie Pan** (Student PI), & Chin-Hui Lai (Advisor). (2025). *Building an ancient Chinese knowledge QA system using RA-LLMs*. NSTC Undergraduate Research Project Grant (114-2813-C-033-035-E). Report Code

Selected Awards & Honors

11/2025 National Finalist, The 30th Innoserve Awards (International ICT Innovative Services Contest) — *HongLou WiseRead*

10/2025 1st Place (Written Review), Dept. of Information Management Senior Project Competition, Chung Yuan Christian University

11/2025 Recipient, TOEFL ITP Higher Education Academic Research Scholarship

Selected Projects

2026 **AREQA**: Personalized AI Educational Learning QA System Website Code
- Built an AI Q&A system optimized for learning, with easy-to-understand answers and automatically added visual aids. Supports illustrated explanations of uploaded PDF papers and real-time AI voice and video calls.

2025 **HongLou WiseRead** (紅樓慧讀): Classical Literature AI Learning Platform Website Code
- Developed a digital platform for classical literature learning, combining AI Q&A on selected passages, interactive character maps, and gamified daily challenges with an experience-point system.

2026 **XiaoHong**: Classical Chinese Knowledge QA System Code
- Fine-tuned a language model specifically for Dream of the Red Chamber Q&A to provide more specialized answers grounded in supporting literature.

Working Experience

09/2026 – Present **National Taiwan Normal University**
Graduate Research Assistant, AI-Mediated Learning and CSCL Lab (Advisor: Prof. Chiung-Hui Chiu (邱瓊慧))
- Researching human-centric AI education systems, LLM tutoring agents, and computer-supported collaborative learning.

09/2022 – 09/2023 **Coding Ape School** (猿創力程式教育)
Programming Instructor
- Instructed elementary students in Scratch, Minecraft Education, and App Inventor; designed interactive coding curricula.

Technical Skills

AI & LLMs LLM Agents, Retrieval-Augmented Generation (RAG), QLoRA Fine-Tuning, Hybrid Retrieval (FAISS / BM25), Reranking, Knowledge Graphs, Prompt Engineering

Full-Stack Python (FastAPI, Flask, Streamlit), JavaScript / TypeScript, React / Next.js, SQL, Redis, PostgreSQL, RESTful APIs, Docker, Git, Vercel / Render