

# Kuan-Jung(Anna), Chen

[angelachen572@gmail.com](mailto:angelachen572@gmail.com) | (+886) 963-329-272

[github.com/AnnaChen1228](https://github.com/AnnaChen1228) | <https://blog-tawny-phi-20.vercel.app/>

M.S. in CS at NCU specializing in GenAI Agents, RAG, and full-stack development. Bridging research (CIKM/TAAI) and engineering (1st Place, 2026 TSMC CareerHack). Adept at cross-disciplinary collaboration across education and administrative domains, leading cross-functional teams to deploy smart platforms (EduACT, CoSci) and optimize RAG pipelines for the MOST recommendation system.

## HONORS & PUBLICATIONS

---

First Award | TSMC IT CareerHack: Semiconductor Supply Chain Intelligent Assistant 2026  
Paper | *A Dialogue Knowledge Tracing System for Learning Analytics* ProActLLM 2025  
Paper | *Domain-Retrieved Evidence and Multi-Agent Reasoning for Structured Paper Evaluation* TAAI 2025  
Scholarship | NCU CSIE Outstanding Student (2024) | Grant | NSTC 112th College Student Research (2023)

## PROJECT

---

**MOST: Reviewer Recommendation System** | RAG, Local LLM, Vector DB 2025.12 – Present

- Multi-Dimensional Matching & LLM: Transformed 1D data (title, keywords, abstract) into multi-dimensional similarity matching by deploying a local 120B LLM to extract distinct insights (e.g., objectives, methodologies).
- RAG & Workload Balancing: Built field-specific vector databases (bge-zh-v1.5) with dynamic weighting. Mitigated reviewer overload caused by specific keyword bias, achieving an 8-15% cross-dimension overlap rate to ensure balanced and accurate recommendations.

**CoSci** | Scientific Modeling System | React, Socket.io, MAS, LLMs, MongoDB 2025.03 – Present

- Visual Modeling & MAS: Addressed a critical research gap (8.7%) in model exploration by developing visual ModelFlow and a state-aware MAS. Guided students to translate abstract physics concepts into computational parameters, successfully deployed in 30+ high school camps.
- System Validation: Evaluated 3 LLMs for system consistency across description, ModelFlow, and parameters, achieving a high F1-score (0.86–0.93) in variable and evolution definitions.

**EduACT** | No-Code AI TA Platform | FastAPI, OpenAI API, Vue, SQL 2024.09 – Present

- Architecture Refactoring: Integrated OpenAI Assistant API to streamline No-Code setup. Restructured the system to a class-based management unit, significantly boosting teachers' administrative efficiency.
- Data Visualization: Developed a dashboard to visualize LightRAG analysis data. Continuously optimized UI/UX, leading to successful adoption across NCCU, NCU, and multiple high schools.

**Traffic Accident Report Extraction** | BERT, mT5, NLP, Python 2024.10 – 2025.01

- Model Optimization: Extracted 35 features using BERT, RoBERTa, and mT5 with Cohen's Kappa evaluation. Validated RoBERTa as the top performer and applied data augmentation to mT5 to mitigate label sparsity.

**Bug Report Summarization** | Deep Learning, XGBoost, SVM, Python 2023.07 – 2024.02

- Extractive Summarization: Integrated user intent with 36 statistical features (NSTC project). Demonstrated SVM as the best model (F-score: 0.519), effectively reducing developers' time spent reading and comprehending bug reports.

## EXPERIENCE

---

**Research Assistant** | NCU WIDM Lab 2025.02 – Present

- Developed and maintained the official lab website (full-stack); managed GPU server infrastructure including user provisioning, troubleshooting, and uptime monitoring for 10+ researchers.

**Teaching Assistant — Artificial Intelligence** | NCU CSIE 2025.09 – 2026.01

- Designed ML assignments (multi-class classification, sequence labeling) for 50+ students; evaluated project architectures and provided technical mentorship.

**Application Services Intern** | Telecom Technology Center (TTC) 2024.02 – 2024.06

- Executed database migration and web stress testing to ensure system stability post-deployment.

## EDUCATION

---

**National Central University** | MS in Computer Science & Info. Engineering. GPA: 4.1/4.3 | 2024 – Present  
**Yuan-Ze University** | BS in Computer Science Engineering GPA: 3.8/4.0 | 2020 – 2024

## SKILLS

---

**ML/NLP:** PyTorch, BERT, mT5, XGBoost  
**LLM & Agent:** Cloud APIs (OpenAI, Gemini), Local LLM (Ollama), RAG/LightRAG, Multi-Agent  
**SystemsWeb:** React, Vue, Socket.io, MongoDB  
**Infra:** Python, SQL, Docker, Git, Linux