

# LI-CHUN (PHOEBE) LU

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## EDUCATION

### Electrical Engineering, National Taiwan University (NTU)

Taipei, Taiwan

Bachelor of Science in Engineering

Sep. 2020 - Jun. 2025 (Expected)

- Related Courses: Intro. to Computer Science, Algorithms, Computer Architecture, Computer Programming, Intro. to GenAI.
- Last-60-credit GPA: 4.16/4.3.

### Computer Engineering, San Diego State University

California, United States

Exchange Student

Jan. - May 2023

- Selected Courses: Operating Systems, Data Structure, Intro. to AI, Oral Communication.
- Overall GPA: 3.93/4.0

## PAPERS

- **Li-Chun Lu\***, Shou-Jen Chen\*, Tsung-Min Pai, Chan-Hung Yu, Hung-yi Lee, Shao-Hua Sun, "LLM Discussion: Enhancing the Creativity of Large Language Models via Discussion Framework and Role-Play," in *Proceedings of the Conference On Language Modeling (COLM)*, 2024. 📄
- **Li-Chun Lu**, Miri Liu, Pin-Chun Lu, Yufei Tian, Shao-Hua Sun, Nanyun Peng, "Rethinking Creativity Evaluation: A Critical Analysis of Existing Creativity Evaluations," *preprint*, 2025.
- Chien-yu Huang et al., "Dynamic-SUPERB Phase-2: A Collaboratively Expanding Benchmark for Measuring the Capabilities of Spoken Language Models with 180 Tasks," in *Proceedings of the Thirteenth International Conference on Learning Representations (ICLR)*, 2025. 📄
- Yu Lun Hsu, Chien-Ting Lu, **Li-Chun Lu**, Chih-Heng Tam, Yu-Chieh Sun, Ting-Kang Wang, "AnimalSense: Understanding Beyond-human Sensory Capabilities of Animals via VR Games," in *Student Game Competition (SGC) of the Conference on Human Factors in Computing Systems (CHI)*, 2024. (Runner-Up Award.) 📄
- Pin-Chun Lu, Che-Wei Wang, Yu Lun Hsu, Alvaro Lopez, Ching-Yi Tsai, Chiao-Ju Chang, Wei Tian Mireille Tan, **Li-Chun Lu**, Mike Y Chen, "VeeR: Exploring the Feasibility of Deliberately Designing VR Motion that Diverges from Mundane, Everyday Physical Motion to Create More Entertaining VR Experiences," in *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*, 2024. 📄

## RESEARCH EXPERIENCE

### Peng's Language Understanding & Synthesis Lab (PLUS), University of California, Los Angeles

California, United States

Visiting Researcher | Advisor: Prof. Nanyun (Violet) Peng

Nov. 2024 – Apr. 2025

- Lead a project that analyze 4 metrics for creativity evaluation—Creativity Index, Perplexity, Syntactic Templates, and LLM-as-a-Judge—across 3 domains: creative writing, problem-solving, and research ideation, and identify inconsistencies across metrics.
- Diagnose key limitations of each metric, including lexical bias in the Creativity Index, sensitivity to overconfidence in Perplexity, inability to capture conceptual-level creativity in Syntactic Templates, and instability and bias in LLM-as-a-Judge.

### Robot Learning Lab (RLL), NTU

Taipei, Taiwan

Research Assistant, Undergraduate Researcher | Advisor: Prof. Shao-Hua Sun

Oct. 2023 – Present

- Developed a three-phase discussion framework incorporating role-playing techniques for LLM agents, resulting in a 20% increase in their creative performance on 4 benchmarks, including the Wallach-Kogan Creativity Tests and the scientific creativity.
- Devised an LLM evaluation based on 4 metrics of creativity and designed questionnaires to collect more than 1,400 human responses on creativity across these metrics, demonstrating a 0.7 correlation between LLM evaluations and human evaluations.
- Enhanced the continuous learning capabilities of LMs by designing a decision agent that integrates a RAG-based in-context

- learning system with model update mechanisms.
- Presented our work *LLM Discussion* at the Conference on Language Modeling (COLM) poster session with over 900 attendees.

**Deep Learning & Human Language Processing Lab (DLHLP), NTU**

**Taipei, Taiwan**

*Undergraduate Researcher | Advisor: Prof. Hung-yi Lee*

*Jul. 2023 – Oct. 2024*

- Proposed and processed a dataset, "Third Tone Sandhi Recognition in Mandarin," for Dynamic-SUPERB to evaluate universal speech models, based on the NCCU Corpus of Spoken Taiwan Mandarin dataset.
- Applied the Direct Preference Optimization (DPO) framework in reinforcement learning to train a text-instruction-guided voice conversion model, collaborating with two teammates to enhance its performance.

**Human Computer Interaction Lab (HCI), NTU**

**Taipei, Taiwan**

*Undergraduate Researcher | Advisor: Prof. Mike Y. Chen*

*Aug. 2023 – May. 2024*

- Demonstrated and presented our game at the Student Game Competition (SGC). Implemented three levels of sensation substitution and remapping in a virtual reality game using Unity to enhance human comprehension of animal senses.
- Surveyed prior works, collected, and analyzed Mass Rapid Transit speed data to justify the validation of paper hypotheses and questionnaire design. Designed figures and edited a demo video to visualize paper information using Adobe tools.

## TEACHING EXPERIENCE

**Intro. to Generative Artificial Intelligence Course, NTU**

**Taipei, Taiwan**

*Teaching Assistant (TA)*

*Feb. 2024 – Jun. 2024*

- Handled questions during TA hours and via email from 1,000 students and 1,000 auditors, in collaboration with 37 other TAs.
- Designed slides as teaching materials for an assignment, along with an LLM essay evaluation system, helping students practice and understand the concept of prompting, in collaboration with two other TAs.

## INTERNSHIP

**NTU Y.L. Lin Program, Taiwan FactCheck Center**

**Taipei, Taiwan**

*Collaboration Intern*

*Dec. 2023 – May 2024*

- Designed an AI Media Literacy Web Game to address misinformation and enhance public understanding of AI.
- Conducted user research via individual interviews with 15 people to improve the interface design, gameflow, and effectiveness.

**Solution Engineer Team, Synopsys Taiwan Co.**

**Hsinchu, Taiwan**

*Technical-Engineering Intern*

*Jul. 2023 – Aug. 2023*

- Completed debugging of four sets of Process Design Kits (PDKs) with a teammate, each encompassing both Schematic-versus-Schematic (SvS) and Layout-versus-Layout (LvL) analyses.
- Utilized Python and TCL programming languages, alongside Custom Compiler, to inspect the callback functions of PDKs.

## AWARDS

**Runner-Up Award, Student Games Competition of the Conference on Human Factors in Computing Systems (CHI)**

*May 2024*

**Outstanding Service Award, NTU Department of Electrical Engineering**

*Dec. 2021*

**Excellence Award, Architecture Video Storytelling Project of NCKU Department of Architecture**

*Feb. 2020*

## ACADEMIC SERVICES

**Volunteer, Diversity, Equity and Inclusion (DEI) Scholarship Program, COLM**

*Oct. 2024*

**Reviewer, Spoken Language Technology Workshop, IEEE**

*Jul. 2024*

## SKILLS

- **Spoken Language:** English(Fluent), Mandarin(Native), Taiwanese(Native)
- **Programming Language:** Python, C++, TCL, HTML/CSS