

YU-SHIN (Lexi) Liou

ysliou@kth.se | [Github](#) | phone: +46 764-334-873

EDUCATION

Master of Science in Interactive Media Technology , KTH University, Stockholm, Sweden	2025.8-Present
Visiting Student , University of California, Berkeley, U.S.	2023.8-2024.5
<ul style="list-style-type: none">• GPA: 3.87/4.0• Related courses: Introduction to Artificial Intelligence, Human-Computer Interaction (HCI) Research, Honors Social Implications of Computer Technology	
Bachelor of Sociology , National Taiwan University (NTU), Taipei, Taiwan	2020.9-2024.6

WORK EXPERIENCE

Software Engineer (part-time) , Computer Information Management Division, NTU, Taiwan	2025.6-Present
<ul style="list-style-type: none">• Developed and integrated an AI-powered course comment review system with Ollama to automatically filter out offensive language, which reducing the workload of human reviewers.• Evaluated system accuracy by benchmarking AI-generated results against human reviews, ensuring reliability.	
Research Intern , Department of Sociology, New York University, U.S.	2024.9-2025.06
<ul style="list-style-type: none">• Using machine learning LASSO regression model to identify key factor in network formation.• Developed and improved the LLM-based network prediction method using reasoning, contextual integration, and sequential methods. Supervised by Prof. Byungkyu Lee and David Broska (Stanford University).	
Research Intern , Human-Centric AI Lab, Northeastern University, U.S.	2024.7-2024.8
<ul style="list-style-type: none">• Use LangChain framework to build LLM agents interaction experiments and applied the ERG model to identify key factors influencing the formation of agents' social networks.	
Research Intern , Academia Sinica, Taiwan	2021.3-2023.8
<ul style="list-style-type: none">• Applied survival analysis on dynamic network graphs built from 10.1 million digital interaction records on Facebook, identifying key factors in network formation process.• Developed a web crawler for food delivery platforms, leveraging parallel computing and API scraping to optimize data retrieval, reducing processing time by 98.3%.	
Teaching Assistant, Statistics , Department of Business Administration, NTU, Taiwan.	2022.9-2023.6
<ul style="list-style-type: none">• Hosting english lab session. Supporting 50+ professionals from 5+ countries in applying regression analysis and hypothesis testing to business decisions.	

PROJECTS

Times (HTML, Tailwind CSS, JavaScript)
<ul style="list-style-type: none">• Developed a newspaper-style Hugo open-source theme with multilingual support, optimized loading speed, and improved SEO. [Link]
Pastedown (IOS App using swift)
<ul style="list-style-type: none">• Developed IOS App that converting rich-text, including images, tables in clipboard to markdown format. Integrated with AI to generate alternative text automatically to facility accessibility of markdown document.
Responsive Personal Blog (TypeScript, JavaScript, Astro, React, Tailwind CSS, HTML)
<ul style="list-style-type: none">• Developed and deployed a responsive personal website on Vercel.• Implemented advanced features including multilingual support (i18n), infinite scroll for posts, theme toggling (dark/light mode), and SEO optimization for improved visibility. [Link]

TECHNICAL SKILLS

- Programming & Tools: Python, C/C++, Swift, Git, TypeScript
- Web Development: React, JavaScript, Astro, Tailwind CSS, Figma
- Data & ML: Pandas, NumPy, Seaborn, NLTK, PyTorch, TensorFlow, Keras, LangChain, R

AWARDS & HONORS

KTH Scholarship, KTH University, Sweden (SEK 360,000) - *for students having outstanding achievements in their field.* 2025

Future Scholars in Humanities and Social Sciences (32,000 USD) - *for visiting UC Berkeley.* 2023

Principal Award, National Taiwan University (Full-year tuition scholarship) - *for students having outstanding achievements.* 2022

5th Yulin Talent Cultivation Program Scholarship, Yulin Foundation (20,000 USD) - *for commitment to visually impaired welfare.* 2022

College Student Research Scholarship, National Science Committee (1,333 USD) - *for social media network dynamic research* 2022