

Jiwoong (Gio) Choi

Chicago, IL 60615 | (312) 287-5718 | giochoi@uchicago.edu | [linkedin.com/in/giochoi22](https://www.linkedin.com/in/giochoi22) | <https://gio-choi.github.io>

EDUCATION

The University of Chicago, Chicago, Illinois

Master of Arts in Computational Social Science | Expected Jun 2026

- Maroon Scholarship Awardee (\$60,000)
- STEM-designated program in Computer and Information Sciences (CIP code)

Kyung Hee University, Seoul

Bachelor of Economics | Feb 2024

Bachelor of Engineering in Software Engineering - Data Science Track | Feb 2024

- National Software Accomplished Student, Ministry of Science and ICT, South Korea

Purdue University, West Lafayette, Indiana

Visiting Scholar, Dept. of Computer & IT | Apr 2022 – Aug 2022

- Developed a Perception system for Autonomous Vehicles on ROS & Linux at a Jetson Nano computer
- Tested LiDar, RGB-D cameras, & GPS sensor, and collected & preprocessed raw data
- Developed 3 C++ classes and integrated them into the ORB-SLAM2 backbone system

SKILLS

Programming: Python (PyTorch, Pandas, Numpy), C/C++ (OOP, multi-threading), SQL

Miscellaneous: Linux, Docker, Git, GIS, Visualization (Matplotlib), Natural Language Processing

EXPERIENCE

Knowledge Lab (Prof. [James Evans](#)), Chicago

Research Assistant | Sep 2024 – Present

- Developed and implemented a multi-agent simulation framework using AutoGen & LLMs (e.g. Llama 3.1 70B) to predict future scholarly collaborations and research topics based on historical publication data.

MSCI Inc (Morgan Stanley Capital International), Seoul

Research Intern – Data & Sustainability | Mar 2024 – Aug 2024

- Led a pilot project to automate the ratings system through data crawling, API communication, SVM, AI model fine-tuning in Python, successfully transitioning the project into a main initiative within the APAC Research team
- Developed a Python-based document search tool using OOP paradigm (3000+ lines of code) to streamline retrieval of sentences with specified keywords from internal databases (e.g., 10-K and corporate reports), significantly reducing manual review time for dozens of senior analysts
- Automated due diligence, web scrapping, corporate report translation, GIS & asset mapping using Python

United Nations, Seoul

Research & Data Intern | Aug 2023 – Feb 2024

- Led research on the status of SDGs in the ASEAN region, focusing on Sustainable Development Goal (SDG) 4, 9, 16, and 17. (Hypothesis testing, Dataset collection, Data analysis in R and Python, and Data visualization)
- Prepared statistics for over 5 international conferences using household survey microdata (DHS & MICS)
- Delivered statistics training for 20+ government officials across 10 ASEAN countries, providing instruction in the R programming language from basic syntax to fundamental statistics and logistic regressions

Cisco Systems, Seoul & Singapore

Systems Engineer Intern | Jun 2023 – Aug 2023

- Leveraged Computer Networking & Cloud knowledge to effectively communicate and demonstrate the value proposition of solutions/products to clients with Engineering/Sales team across APAC
- Taught computer networking fundamentals and guided topology implementation for students at a CSR event

PricewaterhouseCoopers, Seoul

IT Auditor Intern | Jan 2022 – Feb 2022

- Cleansed and preprocessed large-scale ledger data from 60 companies, using SQL, VBA, and Excel

PUBLICATIONS

- Duerto-Valero, Sara, et al. "ASEAN Gender Outlook 2024." UN General Assembly (UNGA), Sept. 27, 2024.
- Kim, SK, et al. "Korea Discount and Corporate Governance." **MSCI Inc.**, June 2024.
- Heo, Seongil, et al. "Outdoor visual SLAM and Path Planning for Mobile-Robot." In *2022 Sixth IEEE International Conference on Robotic Computing (IRC)*, pp. 296-301. **IEEE**, 2022.