

# Jong Inn Park

200 Union St SE, Minneapolis, MN 55455

📞 763-340-4178 | ✉️ park2838@umn.edu | 🏠 jong-inn.github.io/ | 🌐 linkedin.com/in/jong-inn-park

## EDUCATION

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- University of Minnesota** Sep 2022 - May 2024  
*Graduate Student | GPA of 3.82/4.0*  
*Twin Cities, MN*
- Master of Science in Data Science
  - Advised by Dongyeop Kang
- Sungkyunkwan University** Mar 2013 - Feb 2019  
*Undergraduate Student | GPA of 3.96/4.5*  
*Seoul / Suwon, Korea*
- Bachelor of Economics in Statistics
  - Bachelor of Science in Systems Management Engineering

## EXPERIENCE

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- Minnesota NLP Lab** Apr 2023 - Present  
*Graduate Research Intern → Research Engineer / Full Stack Web Developer*  
*Minneapolis, MN*
- Implementing LLM-based multi-agent systems using LangChain and LangGraph to solve complex problems
  - Constructing web applications (e.g. chatbot) for research work; utilizing React, Vue, FastAPI, and PostgreSQL
  - Developed Chrome extension using JavaScript, Python, MongoDB, and Docker to collect user browsing data
  - Built and published project web pages, developed language model platform with Python, and conducted data analyses, contributing to multiple publications
- Piper Sandler** Sep 2023 - Apr 2024  
*Technology Intern*  
*Minneapolis, MN*
- Developed a prototype showing topic models and sentiment analysis of earnings call transcripts via Streamlit
  - Constructed Python scraping pipelines to collect public financial data for Equity Capital Market group decision
- Samsung Card** Jan 2019 - Jul 2022  
*Data Analyst*  
*Seoul, Korea*
- Developed web scraping modules and pipelines in Python to collect social media data and analyzed the trend in the credit card business to publish monthly reports for related teams
  - Devised automated quality-assurance system for monitoring debt-collection calls with text classification models, which reduced 3 monitoring agents and increased coverage of monitoring from 1% to 100% of monthly calls
  - Created text classification models, strategies for building models, data cleansing processes, and model evaluation standards to leverage massive transcribed text data

## PUBLICATIONS

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- Consumer Engagement with AI-Powered Search Engines and Implications for the Future of Search Advertising** Aug 2024  
*AEJMC 2024 Advertising Division - Paper*  
*Gabriel Garlough-Shah, Jong Inn Park, Shirley Anugrah Hayati, Dongyeop Kang, Jisu Huh*
- Benchmarking Cognitive Biases in Large Language Models as Evaluators** Aug 2024  
*Findings of ACL 2024 - Paper, Github, Page*  
*Ryan Koo, Minhwa Lee, Vipul Raheja, Jong Inn Park, Zae Myung Kim, Dongyeop Kang*
- SelectLLM: Can LLMs Select Important Instructions to Annotate?** Jan 2024  
*Preprint - Paper, Github*  
*Ritik Sachin Parkar\*, Jaehyung Kim\*, Jong Inn Park, Dongyeop Kang*
- Under the Surface: Tracking the Artifactuality of LLM-Generated Data** Jan 2024  
*Preprint - Paper, Github, Data, Page*  
*D. Das\*, K.D. Langis\*, A. Martin\*, J. Kim\*, M. Lee\*, Z.M. Kim\*, S. Hayati, R. Owan, B. Hu, R. Parkar, R. Koo, J.I. Park, A. Tyagi, L. Ferland, S. Roy, V. Liu, D. Kang*

## PROJECTS

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- ONR: Developing Chatbot Mental Coaching Application for Military Forces** Jul 2024 - Present  
*TNT Lab Skills: FastAPI, Vue.js, PostgreSQL, ER Modeling, Docker*
- Developing backend endpoints with relational database and integrating API into front web
- SciTok: Generating Short-form Videos Introducing Papers with Multi-agent** Jul 2024 - Present  
*Minnesota NLP Lab Skills: LangChain, LangGraph, Docker*
- Leading project using LLM-based multi-agent systems to generate research paper short-form videos
- CogBench: Evaluating Cognitive Capabilities of Large Language Models** Jun 2024 - Present  
*Minnesota NLP Lab Skills: Nginx, Node.js, React, Flask, MongoDB, Docker*
- Constructing web application to collect researchers' cognitive experiments with LLM
- LegalBench: Benchmarking Legal Skills and Knowledge** Aug - Oct 2024  
*Minnesota NLP Lab Skills: Nginx, Node.js, MinIO, ChromaDB, React, Flask, MongoDB, Docker*
- Deployed web application to track law school RAs behavioral patterns in consulting
- CustomInt: Human and LLM Collaborated Instruction-tuning Datasets Builder** Jan - Jun 2024  
*Minnesota NLP Lab Skills: React, Flask, MongoDB, Docker*
- Built complex web application to help researchers generate and select high-quality instruction-tuning datasets collaborating with LLM
- GraphSumm: Graphical Text Summarization Using Generative AI** Jan - Jun 2024  
*Capstone Project - [Github](#) Skills: React, Flask, D3.js, OpenAI API*
- Developed web application leveraging OpenAI API to transform long transcribed speech data into structured graphical visualizations, enhancing comprehension and engagement in complex meetings or Q&A sessions.
- talkative-llm: Open-source Large Language Model Platform** Apr - Aug 2023  
*Minnesota NLP Lab - [Github](#) Skills: Python, PyTorch, Transformers*
- Developed platform providing users tool for querying Large Language Models, including API-based models (OpenAI, Cohere) and Huggingface models (Used in NLP class - CSCI5541 Fall 2023 / Spring 2024)

## SKILLS

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**Programming Languages:** Python, R, SQL, JavaScript, Java  
**Web Technologies:** HTML/CSS, React, Vue.js, Node.js, D3.js, jQuery, Nginx, Flask, FastAPI, Chrome Extension  
**Data Engineering:** PostgreSQL, MySQL, MongoDB, ER Modeling, Web Scraping, ETL  
**Data Science:** Language Model Finetuning, Topic Modeling, Clustering, SVM, LangChain, LangGraph  
**Tools & Platforms:** Azure Cloud, AWS, Git, Docker, Excel, Tableau, Confluence