

Taehyun Yang

Undergraduate Student, College of Liberal Studies, Seoul National University
taehyun2017330@gmail.com | taehyun.me | he/him/his

Most of the names and institutions are linked to their relevant web pages for quick reference.

Education

2021 -	B.S. in Computer Science and Engineering B.S. in Business Administration Advised by Dr. Sangmin Lee	Seoul National University
2017 - 2018	B.S. in Electrical Engineering Withdrawn	University of Illinois at Urbana-Champaign

Research Interests

My research lies at the intersection of Human-Computer Interaction and Social Computing. Through my research, I aim to understand how foundational models can be designed and deployed to serve diverse user needs. To this end, I develop AI systems that enhance human-AI interactions across healthcare, organizational, and educational contexts.

Publications

Peer-Reviewed Full Papers & Workshops

2024	P4	Mitigating Tension in AI Audits for HRM: Addressing Socio-Technical Complexities through LLM Agents Taehyun Yang, Hyanghee Park, Daehwan Ahn ACM Conference on Human Factors in Computing Systems (Work in Progress)
2024	P3	Offsetting Perceptual Bias in Visual Clustering: The Role of Point Size Adjustment in Variable Display Sizes Taehyun Yang, Hyeon Jeon, and Jinwook Seo IEEE Pacific Visualization Conference (Work in Progress)
2024	W1	Using LLMs to Investigate Correlations of Conversational Follow-up Queries with User Satisfaction Hyunwoo Kim, Yoonseo Choi, Taehyun Yang, Honggu Lee, Chaneon Park, Yongju Lee, Jinyoung Kim, and Juho Kim Workshop on Large Language Models (LLMs) for Evaluation in Information Retrieval, ACM SIGIR Conference on Research and Development in Information Retrieval
2024	P2	Unveiling High-dimensional Backstage: A Survey for Reliable Visual Analytics with Dimensionality Reduction Hyeon Jeon, Hyunwook Lee, Yun-Hsin Kuo, Taehyun Yang, Daniel Archambault, Sungahn Ko, Takanori Fujiwara, Kwan-Liu Ma, and Jinwook Seo ACM Conference on Human Factors in Computing Systems (Under review)

2024 P1 **UMATO: Two-phase Manifold Approximation for Accurate, Scalable, and Stable Dimensionality Reduction**
Hyeon Jeon, Hyung-Kwon Ko, Soohyun Lee, Jake Hyun, **Taehyun Yang**, Gyeahun Go, Jaemin Jo, and Jinwook Seo
IEEE Transactions on Visualization and Computer Graphics (Under minor revision)

Experiences

Research Experiences

2023 - **Undergraduate Intern**, SNU HCIL, Seoul National University
Advisor: Dr. Jinwook Seo
Developed ML visualization algorithms and visual perception models [P1, P2, P3]

2024 **Undergraduate Intern**, KIXLAB, KAIST
Advisor: Dr. Juho Kim
Investigated user behavior in multi-turn conversational search engines, collaborating with NAVER's Cue [W1]

2022 **Visiting Researcher**, Tech4Good Lab, University of California, Santa Cruz
Advisor: Dr. David Lee
Explored scaffolding and sub-goal learning techniques for programming education

Industry Experiences

2025 - **Technical Specialist Intern**, Microsoft Korea
Incoming intern for Jan. 2025

2024 **Project Intern**, SoftlyAI
Led a team to develop a LLM system tailored for industry experts and healthcare professionals.

2023 - 2024 **Product Research & Development Intern**, Samsung Research
Developed hand-tracking interactions for Samsung's Vision AR prototypes.

2021 - 2023 **Co-Founder**, Team Chattie
Led a startup team to develop a Korean/English language learning platform (300 users).

2020 - 2021 **Research Consultant**, Korea Insight Institute
Consulted on market research projects, specializing in Fintech industries.

2019 **Intern Consultant**, Tech Suda
Served as a trilingual consultant (Chinese, Korean, English) at CES 2019

2019 - 2020 **Military Service**, Ministry of Gender Equality and Family
Developed applications focused on enhancing women's safety.

Teaching Experiences

2024 **Mentor**, LG AI Youth Camp

2024 **Undergraduate Teaching Assistant**, 4190.407 Algorithm

2024 **Undergraduate Teaching Assistant**, M1522 Computer Programming

2023 **Undergraduate Teaching Assistant**, 035.001 Digital Computer Concept and Practice

2023 **Hackathon Judge**, International Collegiate Programming Contest (ICPC) Regional

2022 **Coding/Physics Tutor**, Ranked 5.4k/550k (1%) Top STEM teacher from Kim Study

Invited Talks

- 2024 **Enhancing Conversational Search Through Real World User Interaction Analysis at Scale**
Liberal Arts and Sciences Academic Festival, Feb. 2024
- 2023 **Exploring Visual Perception and Cluster Granularity**
K-VIS, Korean Institute of Information Scientists and Engineers, Dec. 2023

Grants and Scholarships

Research Grants

- 2024 **Learning Sciences Research Grant**, Learning Sciences Institute
Topic: Creating Easily Digestible Educational Group Chats with LLM-Driven Question and Answer Connections
Granted 2,000,000 KRW (\simeq 1,500 USD)
- 2024 **Student Individual Research Program**, Faculty of Liberal Education
Topic: Can LLM Models Simulate Human Subjectivity?
Granted 5,000,000 KRW (\simeq 3,700 USD)
- 2023 **SNU Undergraduate Research Program**, Computer Science and Engineering
Topic: Exploring Size in Visual Clustering Perception
Granted 1,000,000 KRW (\simeq 750 USD)

Scholarships and Awards

- 2024 **Fullbright Graduate Scholarship**, Korean-American Educational Commission (Declined)
Granted 90,000 USD for graduate studies
- 2024 **LG AI Mentorship Scholarship**, Seoul National University & LG Discovery Lab
Granted 2,000,000 KRW (\simeq 1,500 USD)
- 2024 **SNU Semiconductor Excellence Scholarship**, Institute for Semiconductor Specialization
Awarded to 91/455 students (20%) for academic and extracurricular excellence
Granted 11,300,000 KRW (\simeq 8,300 USD)
- 2023 **SNU-SEC Research Program Fellowship**, Samsung Research (Declined)
Recognized for research excellence
Granted 30,000,000 KRW (\simeq 22,000 USD)
- 2022 **Visiting Researcher Travel Grant**, SNU Office of International Affairs
Awarded to 30/150 students (20%) for visiting research support
Granted 5,000,000 KRW (\simeq 3,700 USD)
- 2022 **Golden award in K-Startup Competition**, Ministry of Culture, Sports and Tourism
Awarded to top 1/50 team (2%) for entrepreneurial excellence
Granted 10,000,000 KRW (\simeq 7,500 USD)
- 2021 - 2024 **Academic Excellence Scholarship**, Seoul National University
Granted total of 5,000,000 KRW (\simeq 3,700 USD)