Taehyun (Tae) Yang

Prospective Ph.D. Student, Department of Computer Science, University of Maryland taeyang@umd.edu | taehyun.me | he/him/his

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

Education

2025 -	Ph.D. in Computer Science Incoming student advised by Dr. Fumeng Yar	University of Maryland
2021 - 2025	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2017 - 2018	B.S. in Electrical Engineering Withdrawn	University of Illinois at Urbana-Champaign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 shape decision-making, communication, and trust, and how they can be designed to better serve the public.

Dublications

		Publications
		Peer-Reviewed Full Papers & Workshops
2025	W2	Navigating High-Dimensional Backstage: A Guide for Exploring Literature for the Reliable Use of Dimensionality Reduction Hyeon Jeon, Hyunwook Lee, Yun-Hsin Kuo, Taehyun Yang, Daniel Archambault, Sungahn Ko, Takanori Fujiwara, Kwan-Liu Ma, and Jinwook Seo Eurographics Conference on Visualization
2025	P3	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
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

SIGIR Conference on Research and Development in Information Retrieval

Workshop on Large Language Models (LLMs) for Evaluation in Information Retrieval, ACM

2024 P2	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 P1	UMATO: Two-phase Manifold Approximation for Accurate, Scalable, and Stable Dimensionality Reduction Hyeon Jeon, Hyung-Kwon Ko, Soohyun Lee, Jake Hyun, Taehyun Yang, Gyehun Go, Jaemin Jo, and Jinwook Seo IEEE Transactions on Visualization and Computer Graphics (Under minor revision)
	Experiences
	Research Experiences
2023 - 2025	Undergraduate Intern, SNU HCIL, Seoul National University Advisor: Dr. Jinwook Seo Developed ML visualization algorithms and visual perception models [P1, P2, P4, W2]
2024	Undergraduate Intern, KIXLAB, KAIST
2024	Advisor: Dr. Juho Kim Investigated user behavior in LLM search, collaborating with NAVER's Cue [W1]
2023	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
2024	Project Intern , SoftlyAl Led a team to develop a LLM system tailored for industry experts and healthcare professionals.
2023 - 2024	Product Research & Development Intern, Samsung Electronics 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 - 2020	Military Service, Ministry of Gender Equality and Family Developed applications focused on enhancing women's safety.
2019	Intern Consultant, Tech Suda Served as a trilingual consultant (Chinese, Korean, English) at CES 2019
	Teaching Experiences
2024 2024 2024 2023 2023	Mentor, LG Al Youth Camp Undergraduate Teaching Assistant, M1522 Computer Programming

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: 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
2025	Dean's Fellowship , University of Maryland Granted 5,000 USD for graduate studies
2025	Grand Prize , Deputy Prime Minister & Minister of Education \P Awarded to top 1/120 team for proposing best solution to semiconductor overloading issues Granted 5,000,000 KRW (\simeq 3,700 USD)
2024	LG Al 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 Electronics (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)