

Taehyun Yang

Prospective Ph.D. Student, Department of Computer Science, University of Maryland, College Park

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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 Yang	University of Maryland, College Park
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2017 - 2018	B.S. in Electrical Engineering Withdrawn	University of Illinois at Urbana-Champaign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.

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 Workshop on Large Language Models (LLMs) for Evaluation in Information Retrieval, ACM SIGIR Conference on Research and Development in Information Retrieval
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 (Work in Progress)
2024	P1	UMATO: Bridging Local and Global Structures for Reliable Visual Analytics with Dimensionality Reduction Hyeon Jeon, Hyung-Kwon Ko, Soohyun Lee, Jake Hyun, Taehyun Yang , Gyeheun Go, Jaemin Jo, and Jinwook Seo IEEE Transactions on Visualization and Computer Graphics

Experiences

Research Experiences

2025 -	Graduate Researcher , FIGX Lab, University of Maryland, College Park Advisor: Dr. Fumeng Yang
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 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

2025	AI Developer , Amond
2024	Project Intern , SoftlyAI
2023	SW Intern , Samsung Electronics
2021	Co-Founder , Team Chattie
2020	Research Consultant , Korea Insight Institute
2019	Military Service , Ministry of Gender Equality and Family
2019	Intern Consultant , Tech Suda

Teaching Experiences

2025	Team Leader , Korean Representative for International Olympiad in AI 🏆 1 Silver, 2 Bronze
2024	Mentor , LG AI Youth Camp
2024	Undergraduate Teaching Assistant , M1522 Computer Programming 🏆 Best TA Award
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

2023	Exploring Visual Perception and Cluster Granularity K-VIS, Korean Institute of Information Scientists and Engineers, Dec. 2023
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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, College Park Granted 5,000 USD for graduate studies
2025	Grand Prize , Deputy Prime Minister & Minister of Education 🏆 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 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)
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)