

Taehyun Yang

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 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. Jinwook Seo	Seoul National University

Publications

Peer-Reviewed Conference & Journal Papers

2025	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 Proceedings of the ACM CHI Conference on Human Factors in Computing Systems
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

Peer-Reviewed Posters & Workshop Papers

2026	W3	Trace-Aware Workflows for Co-Creating Branded Content with Generative AI Taehyun Yang , Eunhye Kim, Zhongzheng Xu, and Fumeng Yang ACM CHI Conference on Human Factors in Computing Systems (Workshop)
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 (Short Paper)

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 ACM Special Interest Group on Information Retrieval (Workshop)
		Preprint & Under Review
2026	A1	In the Shadow of Judgment: Mapping Out the Landscape of Human-AI Decision-Making Through a Systematic Review Yixin Bai, Taehyun Yang, Zhongzheng Xu, Dayeon Ki, Ziyi Wang, Yu Hou, and Fumeng Yang Preprint

Experiences

Research Experiences

2026 -	Research Scientist/Engineer, Adobe Research, College Park Advisors: Chris Tensmeyer, Vlad Morariu Developing scalable image generation tools for enterprise level brand expression
2025 -	Graduate Researcher, FIGX Lab, University of Maryland, College Park Advisor: Fumeng Yang Building image generation interface leveraging experts' tacit knowledge.
2023 - 2025	Undergraduate Intern, SNU HCIL, Seoul National University Advisor: Jinwook Seo Developed ML visualization algorithms and visual perception models
2024	Undergraduate Intern, KIXLAB, KAIST Advisor: Juho Kim Investigated user behavior in LLM search, collaborating with NAVER's Cue
2023	Visiting Researcher, Tech4Good Lab, University of California, Santa Cruz Advisor: David Lee Explored scaffolding and sub-goal learning techniques for programming education

Other Experiences

2025	Amond , SW Developer
2024	SoftlyAI , SW Intern
2023	Samsung Electronics , SW Intern
2020	Korea Insight Institute , Intern Consultant
2019	Ministry of Gender Equality and Family , Military Service
2019	Tech Suda , Intern Consultant

Teaching Experiences

2026	Teaching Assistant , CMSC 471 - Introduction to Information Visualization	
2025	Teaching Assistant , CMSC 471 - Introduction to Information Visualization	
2025	Team Leader , Korean Representative for International Olympiad in AI	🏆 : 🌟 1 🌟 2
2024	Mentor , LG AI Youth Camp	
2024	Teaching Assistant , M1522 - Computer Programming	🏆 Best TA Award
2023	Teaching Assistant , 035.001 - Digital Computer Concept and Practice	
2023	Hackathon Judge , International Collegiate Programming Contest (ICPC) Regional	
2022	Coding 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	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 solution to NAND 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)	