

Jeongsik Park

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Educations	University of Southern California <i>Master of Science, Computer Science</i>	(Expected) May 2026 Los Angeles, CA
	University of Texas at Dallas <i>Bachelor of Science, Computer Science – GPA: 3.94/4.0</i>	May 2024 Richardson, TX
Publications	MemeIntent: Benchmarking Intent Description Generation for Memes [Paper] Jeongsik Park*, Khoi P. N. Nguyen*, Terrence Li, Suyesh Shrestha, Megan Kim Vu, Jerry Yining Wang, and Vincent Ng. <i>*denotes equal contributions.</i> Published in <i>Proceedings of the 25th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGdial 2024)</i> .	
	MemeInterpret: Towards an All-in-one Dataset for Meme Understanding Khoi P. N. Nguyen*, Jeongsik Park*, Jihyung Park, Minseok Kim, Jaeheon Lee, Jae Won Choi, Kalyani Ganta, Phalgun Ashrit Kasu, Rohan Sarakinti, Sanjana Vippperla, Sai Sathanapalli, Nishan Vaghani, and Vincent Ng. <i>*denotes equal contributions.</i> Submitted to <i>ACL Rolling Review October 2024 Cycle</i> .	
	Active Learning for Hate Speech Detection Jeongsik Park, and Vincent Ng <i>Manuscript Prepared.</i>	
Research Experiences	Human Language Technology Research Institute <i>Research Intern (Advisor: Dr. Vincent Ng)</i>	Aug. 2022 - Present Richardson, TX
	<ul style="list-style-type: none">• Benchmark Dataset for Multimodal Task<ul style="list-style-type: none">– Developed benchmark dataset for computational meme interpretation, collaborating with 6 researchers.– Built Large Language Model (LLM)/Vision LLM (VLLM) pipeline that integrates background knowledge retrieval, leading to 43% performance improvement on semantic similarity over non-retrieval systems.• Dataset for Multimodal Tasks<ul style="list-style-type: none">– Led team of 13 to create dataset for computational meme interpretation and hateful meme detection.– Generated synthetic data using LLM and developed React annotation interface, improving annotation experience by cutting annotation time by 70%.– Built LLM/VLLM and encoder-based pipeline, improving interpretation performance by 14% semantic similarity over baseline and detection by 4.7% AUROC score compared to state-of-the-art model.• Hate Speech Detection<ul style="list-style-type: none">– Conducted independent research on hate speech detection on social media.– Analyzed topic-dependency issue in existing hate speech datasets, and addressed it with active-learning using encoder model, achieving superior performance over state-of-the-art models with only 10% of labeling cost.	
Mentoring Experiences	Human Language Technology Research Institute <i>K-12 Student Research Mentor, and Undergraduate Student Research Mentor</i>	Jun. 2023 - Oct. 2023 Richardson, TX
	<ul style="list-style-type: none">• Mentored and led 4 high school juniors in a research program, resulting in co-authorship of a paper.• Addressed 5 students' machine learning questions in the NSF Research Experience for Undergrads.	

Leadership Experiences	IntelliChoice	Sep. 2022 - Present
	<i>Branch Manager, Math Tutor, and Machine Learning Engineer</i>	Plano, TX & Los Angeles, CA
	<ul style="list-style-type: none"> Opened and managed 2 new branches, providing math tutoring for disadvantaged children every Saturday for 2 hours. Recruited and managed 40+ tutors and 100+ students. Taught mathematics to 10+ K-12 students (focusing AP Linear Algebra, Calculus, and Statistics). Incorporating RAG-based chatbot on website, interacting with students and suggesting lectures to 1,200+ students. 	
	University of Texas at Dallas	Sep. 2023 - Dec. 2023
	<i>Project Coordinator</i>	Richardson, TX
	<ul style="list-style-type: none"> Devised and graded 2-phase machine learning project (in <i>CS4375.HON; Intro. to ML, Honors</i> course). 	
	28th Basic Training Center, Republic of Korea Army	Jul. 2019 - Feb. 2021
	<i>Drill Assistant Instructor</i>	Gyeonggi-do, Republic of Korea
	<ul style="list-style-type: none"> Trained 2,000+ recruits barrack life, teamwork, and military training, received commendation for outstanding leadership. 	
Presentations	MemeIntent: Benchmarking Intent Description Generation for Memes. <i>SIGdial</i> , Sep. 2024 [Poster]	
	Hateful Meme Detection. <i>Center for Machine Learning and Language Processing Lab Mixer, University of Texas at Dallas</i> , Nov. 2023 [Oral]	
	Exploiting Background Knowledge and Implicit Messages for Hateful Meme Detection. <i>Summer Platform for Undergrad Research Symposium, University of Texas at Dallas</i> , Jul. 2023 [Oral and Poster]	
	ComforTABLE: From Ordering to Payment, Comfortably at Your Table. <i>International Student Creativity Challenge, International Association for Convergence Science & Technology (IACST)</i> , Nov. 2018 [Poster]	
Honors and Awards	2024 Jonsson School Undergraduate Research Award, University of Texas at Dallas (UTD) - \$500	
	2023 Gil Lee Undergraduate Scholarship, UTD - \$2,000	
	2023 Alumni Endowed Scholarship, UTD - \$1,400	
	2023 Amelia A. Lundell Scholarship, UTD - \$1,000	
	2023 Undergraduate Research Apprenticeship Program, UTD - \$4,500	
	2022, 2023 Dean's List, UTD - Honor	
	2022-2024 International Study Scholarship, Kyungpook National University (KNU) - \$10,000	
	2020 Certificate of Commendation, Republic of Korea Army - Excellence Award	
	2019 Consumer Electronics Show (CES) 2019, KNU - Travel Grant	
	2018, 2021 Interdisciplinary Education Scholarship, KNU - \$3,200	
	2018 StartUp Project Contest, KNU - 2nd place	
	2018 International Student Creativity Challenge, IACST - Excellence Award & Travel Grant	
	2018 StartUp Idea Contest, KNU - 1st place	
	2018 Prime Outstanding Scholarship, KNU - \$1,000	
	2018 Hackathon SkillUp Software Contest, KNU - 1st place	
	2018 Silicon Valley Training Progrm, KNU - Travel Grant	
	2018 Young Talent Scholarship, KNU - \$500	
	2018-2023 National Science and Engineering Scholarship, Korea Student Aid Foundation - \$18,500	
Technical Skills	Programming Language - Python, SQL, C, C++, Java, Shell	
	Library & Framework - PyTorch, TensorFlow, Pandas, NumPy, Scikit-Learn, Matplotlib, NLTK, L ^A T _E X	
	DevOps - Linux, CI/CD, Git, YAML, CONDA, Docker, AWS, Flask, FastAPI	