

# Jeongsik Park

Los Angeles, CA 90010 | 945-217-6306 | jeongsik@usc.edu | linkedin.com/in/jeongsik-park | webpage

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Educations	<b>University of Southern California</b> <i>Master of Science, Computer Science</i>	(Expected) May 2026 Los Angeles, CA
	<b>University of Texas at Dallas</b> <i>Bachelor of Science, Computer Science – GPA: 3.94/4.0</i>	May 2024 Richardson, TX
Publications	<b>MemeIntent: Benchmarking Intent Description Generation for Memes</b> [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> .	
	<b>MemeInterpret: Towards an All-in-one Dataset for Meme Understanding</b> 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> .	
	<b>Active Learning for Hate Speech Detection</b> Jeongsik Park, and Vincent Ng <i>Manuscript Prepared.</i>	
Research Experiences	<b>Human Language Technology Research Institute</b> <i>Research Intern</i> (Advisor: Dr. Vincent Ng)	Aug. 2022 - Present Richardson, TX
	<ul style="list-style-type: none"><li>• <b>Benchmark Dataset for Multimodal Task</b><ul style="list-style-type: none"><li>– Developed benchmark dataset for computational meme interpretation, collaborating with 6 researchers.</li><li>– 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.</li></ul></li><li>• <b>Dataset for Multimodal Tasks</b><ul style="list-style-type: none"><li>– Led team of 13 to create dataset for computational meme interpretation and hateful meme detection.</li><li>– Generated synthetic data using LLM and developed React annotation interface, improving annotation experience by cutting annotation time by 70%.</li><li>– 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.</li></ul></li><li>• <b>Hate Speech Detection</b><ul style="list-style-type: none"><li>– Conducted independent research on hate speech detection on social media.</li><li>– 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.</li></ul></li></ul>	
Mentoring Experiences	<b>Human Language Technology Research Institute</b> <i>K-12 Student Research Mentor, and Undergraduate Student Research Mentor</i>	Jun. 2023 - Oct. 2023 Richardson, TX
	<ul style="list-style-type: none"><li>• Mentored and led 4 high school juniors in a research program, resulting in co-authorship of a paper.</li><li>• Addressed 5 students' machine learning questions in the NSF Research Experience for Undergrads.</li></ul>	

Leadership Experiences	<b>IntelliChoice</b>	Sep. 2022 - Present
	<i>Branch Manager, Math Tutor, and Machine Learning Engineer</i>	Plano, TX & Los Angeles, CA
	<ul style="list-style-type: none"> <li>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.</li> <li>Taught mathematics to 10+ K-12 students (focusing AP Linear Algebra, Calculus, and Statistics).</li> <li>Incorporating RAG-based chatbot on website, interacting with students and suggesting lectures to 1,200+ students.</li> </ul>	
	<b>University of Texas at Dallas</b>	Sep. 2023 - Dec. 2023
	<i>Project Coordinator</i>	Richardson, TX
	<ul style="list-style-type: none"> <li>Devised and graded 2-phase machine learning project (in <i>CS4375.HON; Intro. to ML, Honors</i> course).</li> </ul>	
	<b>28th Basic Training Center, Republic of Korea Army</b>	Jul. 2019 - Feb. 2021
	<i>Drill Assistant Instructor</i>	Gyeonggi-do, Republic of Korea
	<ul style="list-style-type: none"> <li>Trained 2,000+ recruits barrack life, teamwork, and military training, received commendation for outstanding leadership.</li> </ul>	
Presentations	<b>MemeIntent: Benchmarking Intent Description Generation for Memes.</b> <i>SIGdial</i> , Sep. 2024 [Poster]	
	<b>Hateful Meme Detection.</b> <i>Center for Machine Learning and Language Processing Lab Mixer, University of Texas at Dallas</i> , Nov. 2023 [Oral]	
	<b>Exploiting Background Knowledge and Implicit Messages for Hateful Meme Detection.</b> <i>Summer Platform for Undergrad Research Symposium, University of Texas at Dallas</i> , Jul. 2023 [Oral and Poster]	
	<b>ComforTABLE: From Ordering to Payment, Comfortably at Your Table.</b> <i>International Student Creativity Challenge, International Association for Convergence Science &amp; 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	<b>Programming Language</b> - Python, SQL, C, C++, Java, Shell	
	<b>Library &amp; Framework</b> - PyTorch, TensorFlow, Pandas, NumPy, Scikit-Learn, Matplotlib, NLTK, L <sup>A</sup> T <sub>E</sub> X	
	<b>DevOps</b> - Linux, CI/CD, Git, YAML, CONDA, Docker, AWS, Flask, FastAPI	