# Jeongsik Park

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**Educations**

**University of Southern California** (Expected) May 2026
*Master of Science, Computer Science* Los Angeles, CA

**University of Texas at Dallas** May 2024
*Bachelor of Science, Computer Science* – GPA: 3.94/4.0 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. [*]*denotes equal contributions.*
Published in *Proceedings of the 25th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGdial 2024).*

**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 Vipperla, Sai Sathanapalli, Nishan Vaghani, and Vincent Ng. [*]*denotes equal contributions.*
Submitted to *ACL Rolling Review October 2024 Cycle.*

**Active Learning for Hate Speech Detection**
Jeongsik Park, and Vincent Ng
*Manuscript Prepared.*

**Research Experiences**

**Human Language Technology Research Institute** Aug. 2022 - Present
*Research Intern* (Advisor: Dr. Vincent Ng) Richardson, TX

- **Benchmark Dataset for Multimodal Task**
  - 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**
  - 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**
  - 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** Jun. 2023 - Oct. 2023
*K-12 Student Research Mentor, and Undergraduate Student Research Mentor* Richardson, TX

- 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.

**Service**

**Conference Reviewer** - ICASSP'25

| Leadership Experiences | **IntelliChoice** | Sep. 2022 - Present |
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**IntelliChoice** — Sep. 2022 - Present
*Branch Manager, Math Tutor, and Machine Learning Engineer* — Plano, TX & Los Angeles, CA

- 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
*Project Coordinator* — Richardson, TX

- Devised and graded 2-phase machine learning project (in *CS4375.HON; Intro. to ML, Honors* course).

**28th Basic Training Center, Republic of Korea Army** — Jul. 2019 - Feb. 2021
*Drill Assistant Instructor* — Gyeonggi-do, Republic of Korea

- Trained 2,000+ recruits barrack life, teamwork, and military training, received commendation for outstanding leadership.

**Presentations**

**MemeIntent: Benchmarking Intent Description Generation for Memes.** *SIGdial*, Sep. 2024 **[Poster]**

**Hateful Meme Detection.** *Center for Machine Learning and Language Processing Lab Mixer, University of Texas at Dallas*, Nov. 2023 **[Oral]**

**Exploiting Background Knowledge and Implicit Messages for Hateful Meme Detection.** *Summer Platform for Undergrad Research Symposium, University of Texas at Dallas*, Jul. 2023 **[Oral and Poster]**

**ComforTABLE: From Ordering to Payment, Comfortably at Your Table.** *International Student Creativity Challenge, International Association for Convergence Science & Technology* (IACST), 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
2022-2024 **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 - $1,0000
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, LaTeX
**DevOps** - Linux, CI/CD, Git, YAML, CONDA, Docker, AWS, Flask, FastAPI