

# Lee, Doeheyon

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## EDUCATION

<b>MS</b> , Industrial Engineering, Seoul National University	Mar. 2025 – Feb. 2027 Expected
▪ Supervisor: Prof <a href="#">Jonghun Park (Information Management Lab)</a>	
<b>BS</b> , Industrial Engineering, Seoul National University (GPA: 3.76/4.30)	Mar. 2019 – Feb. 2025

## PUBLICATIONS

- [ICML 2025 Poster] **ELITE: Enhanced Language-Image Toxicity Evaluation for Safety** ([Arxiv](#))
- **(Co-First Author)** Proposed the ELITE Benchmark to overcome low harmfulness and ambiguity in existing safety evaluation benchmarks for Vision Language Models (VLMs).
  - Developed the novel ELITE Evaluator, explicitly integrating a Toxicity Score to achieve superior alignment with human evaluations in accurately assessing multimodal harmfulness.
  - Contributed to the development of safer, more robust VLMs by introducing the ELITE framework, setting a new standard for evaluating and mitigating safety risks in real-world applications.
- [Under Review] **Jailbreaking on Text-to-Video Models via Scene Splitting Strategy** ([Arxiv](#))
- **(Co-author)** Contributed to the development of SceneSplit, a novel black-box jailbreak method designed to address the significant safety gap in state-of-the-art Text-to-Video (T2V) models.
  - Developed a mechanism that manipulates the generative output space by fragmenting a harmful narrative into sequential benign scenes to bypass safety filters.
  - Validated on major T2V models (Luma Ray2, Hailuo, Veo2, etc.), achieving a high average Attack Success Rate (ASR) of up to 84.1%, significantly outperforming the existing baseline.

## WORK EXPERIENCE

<b>AIM Intelligence</b> ( <a href="#">link</a> ) <i>Research Intern</i>	Oct. 2024 – Feb. 2025
▪ Designed and built a VLM Safety Benchmark with improved data categorization and quality. (ICML 2025 Poster)	
▪ Executed red teaming and jailbreak testing for a care-call service, identifying key vulnerabilities and compiling results	
▪ Continuously monitored and analyzed AI security trends, focusing on the latest models and emerging risks	
<b>NAVER Cloud</b> ( <a href="#">link</a> ) <i>Intern, Hyperscale AI planning, Eco biz Dev</i>	Jul. 2024 – Sep. 2024
▪ Analyzed market trends and opportunities in GenAI services and AI Agents, leveraging collected data to propose strategic directions for competitive advantage	
▪ Researched partnership strategies in key service areas, producing documentations for business development planning	
<b>Music &amp; Audio Research Group, Seoul National University</b> <i>Research Intern</i>	Jul. – Aug. 2023
▪ Supervisor: Prof <a href="#">Kyogu Lee (Music &amp; Audio Research Group)</a>	
▪ Developed and optimized a CNN-based chorus detection model for enhanced musical structure analysis	

## RESEARCH GRANTS & SCHOLARSHIPS

- National Research Foundation of Korea (NRF) M.S. Research Scholarship (NRF, 2025)  
Research Topic: *AI Toolkit for Composer: Improving Text-to-Symbolic Music Generation Models via Synthetic Data*
- BK21 FOUR Graduate Research Fellow (Seoul National University, 2025)
- AI Seoul-Tech Graduate School Scholarship (Seoul Scholarship Foundation, 2025)

## ADDITIONAL INFORMATION

- Language: Korean (Native), English (Fluent - TEPS score: 460 (2024)), Mandarin (beginner)
- Programming skills: Python (5-year experience), SQL (1-year experience)
- Military Service: Discharged from the Republic of Korea Army (Mar. 2021 – Sep. 2022)

## RESEARCH INTEREST

- Trustworthy AI and Generative Model Safety: Focusing on vulnerability assessment, adversarial attacks (jailbreak), and ethical alignment for large-scale generative models (VLM, T2V), including the development of robust evaluation benchmarks and mitigation strategies.