**Keummin Ka**

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**RESEARCH INTERESTS**

NLP, Multi-modal, Vision-Language model, Personalized LLM

**EDUCATION**

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| --- | --- |
| **Yonsei University, Seoul, Republic of Korea** | Sep ’24-Present |
| M.S./Ph.D. Student, Department of Artificial Intelligence |  |
|  |  |
| **Yonsei University, Seoul, Republic of Korea** | Mar ’20-Aug ’24 |
| B.S, Department of Electrical and Electronic Engineering |  |

**RELEVANT COURSEWORKS**

**Linear Algebra and its Application (MAT2011)**, **Data Structure and Algorithms (EEE2020)**, Signal and Systems (EEE2060), **Probability and Random Variables (EEE3410)**, Operating Systems (EEE3535), Microprocessor (EEE3540), Communication network(EEE3450), Electrical and Electronic Engineering Capstone Design (EEE4610), **Deep Learning Introduction and Applications(AIC3100), Natural Language Processing and Chat GPT(AIC3110), Introduction Artificial Intelligence(EEE3314), Intelligent Control(EEE4110),** Embedded System LAB(EEE4473), **Limitations and Overcoming Strategies of Large Language Models(AAI5019), Multimodal Deep Learning(AAI5010), Recent Advances in Large-Scale Machine Learning(STA9078)**

**HIGHLIGHTED PROJECTS**

**1. Implementation of Forward SDE and Reverse SDE of image generative model (***In CSE-URP Internship program part of Team project)*

**PUBLICATIONS**

**1. Ever-Evolving Memory by Blending and Refining the Past**

Seohyun Kim, Keummin Ka, Yohan Jo, Seung-won Hwang, Dongha Lee, Jinyoung Yeo

arXiv:2403.04787

2. **Connecting the Dots from Data: LLM-driven Tree-search Career Cartographies as Your AI Career Explorer**

Seungbeen Lee, Keummin Ka, Jinhong Jeong, Chaewon Kim, Seungju Han, Youngjae Yu

Preprint.

3. **Not All Who Wander Are Lost: Building Fantasy-World Commonsense with GANDALF**

Keummin Ka\*, Min Soo Kim\*, Jungyang Park, Chanwoo Choi, Buru Chang, Youngjae Yu

Preprint. Under Review by AAAI 2026

4. **VAGUE: Visual Contexts Clarify Ambiguous Expressions**

Heejeong Nam\*, Jinwoo Ahn\*, Keummin Ka, Jiwan Chung, Youngjae Yu

arXiv:2411.14137 **Accepted to ICCV 2025**

5. **InfoCausalQA: A Benchmark for Causal Reasoning on Infographics**

Keummin Ka\*, Junhyeong Park\*, Jaehyun Jeon, Youngjae Yu

arXiv:2508.06220 Under Review by AAAI 2026

**WORK EXPERIENCE**

1. TA in 2024 Samsung AI Expert course(2024.06.24-2024.06.28)

- conducted supplementary lessons on NLP content and practiced code

2. TA in 2024 SK ML Engineer course(2024.07.08-2024.07.12, 2024.07.29-2024.08.02)

- conducted supplementary lessons on NLP content and practiced code

**INTERNSHIP**

**Corelab Internship**

Compiler Research(Core) Lab., Prof. *Han-Jun Kim*, YONSEI, Korea

* Study on the C programming
* Jan ’22 – Jul ’22

**CSE – URP (Computational Science and Engineering – Undergraduate Research Program)**

Machine Intelligence and Data Science (MIDaS) Lab., Prof. *Won-Yong Shin*, Yonsei University, Korea

* Study on the basics of Generative Models
* Jul ’23 - Aug ’23

**DLIntelligence Lab**

Data & Language Intelligence Lab., Prof. *Jin-Yeong Yeo*, YONSEI, Korea

* Study on the Natural Language Processing
* Sep ’23 – Aug ‘24

**SKILLS**

* Languages: English (Intermediate), Korean (Native)
* Tech. Stack: Python, C