



Bitna Keum

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RESEARCH INTERESTS: Chatbot, Personalization, Generative AI, LLM

EDUCATION

Konkuk University

2022. 03. – 2024. 02.

Master's degree, Department of Artificial Intelligence (GPA: 4.37 / 4.5)

Seoul, South Korea

Kwangwoon University

2017. 03. – 2022. 02.

Bachelor of Engineering, Department of Computer & Information Engineering (GPA: 4.16 / 4.5)

Seoul, South Korea

PUBLICATIONS

International Journals

- [1] **Bitna Keum**, Juoh Sun, Woojin Lee, Seongheum Park, and Harksoo Kim, “Persona-Identified Chatbot through Small-Scale Modeling and Data Transformation”, *Electronics (SI: Emerging Theory and Applications in Natural Language Processing)*, Vol. 13, no. 8, pp. 1-25, 2024. (DOI: 10.3390/electronics13081409) (SCIE, IF: 2.9, Q2)

International Conferences

- [1] Jeonghyun Kang, Hongjin Kim, **Bitna Keum**, Jaieun Kim, and Harksoo Kim, “Generation-Based and Emotion-Reflected Memory Update: Creating the KEEM Dataset for Long-Term Conversation”, *under review* for the 62nd Annual Meeting of the Association for Computational Linguistics, 2024.

Domestic Journals

- [1] **Bitna Keum**, Hongjin Kim, Jinxia Huang, Ohwoog Kwon, and Harksoo Kim, “Improved Open-Domain Conversation Generative Model via Denoising Training of Guide Responses”, *Journal of KIISE*, vol. 50, no. 10, pp. 851-858, 2023. (DOI: 10.5626/jok.2023.50.10.851)

Domestic Conferences

- [3] **Bitna Keum**, Hongjin Kim, Jinxia Huang, Ohwoog Kwon, and Harksoo Kim, “Generative Model Utilizing Multi-Level Attention for Persona-Grounded Long-Term Conversations”, *Proceedings of the 35th Annual Conference on Human and Cognitive Language Technology*, pp. 281-286, 2023.
- [2] Sangmin Park, Yuri Son, **Bitna Keum**, Hongjin Kim, Harksoo Kim, and Jaieun Kim, “Reference-based Utterance Generation Model using Multi-turn Dialogue”, *Proceedings of the 34th Annual Conference on Human and Cognitive Language Technology*, pp. 88-91, 2022.
- [1] **Bitna Keum**, Hongjin Kim, Sangmin Park, Jaieun Kim, Jinxia Huang, Ohwoog Kwon, and Harksoo Kim, “Noised Guide-based Generative Model for Open-domain Conversation”, *Proceedings of the 34th Annual Conference on Human and Cognitive Language Technology*, pp. 82-87, 2022.

WORK EXPERIENCES

Internship at TUNiB

2021. 07. – 2022. 01.

- Collect an enormous amount of data for Korean large language models
- Implement and deploy persona-based chatbot services
- Participate in NLP task competitions

Gangnam-gu, Seoul

Internship at GNC Solution

2019. 09. – 2020. 02.

- Build a foundation in deep-learning and NLP

Songpa-gu, Seoul

RESEARCH EXPERIENCES

LLM-based Chatbot for User-Customized Recommendation

2023. 10. – 2024. 02.

Graduate Research Assistant, Konkuk Univ.

SALTLUX

- Apply dialogue state tracking for user-customized recommendation
- Collect instruction data step-by-step and perform instruction-tuning on LLMs

Research on a Chatbot Model with Long-Term Memory Ability

2023. 01. – 2023. 10.

Graduate Research Assistant, Konkuk Univ.

ETRI

- Improve model architecture to enhance the ability to reflect appropriate persona in responses
- Propose a methodology for synthesizing data to enhance long-term conversational ability

AWARDS AND HONORS

Best Paper Award

2023. 10

The 35th Annual Conference on Human and Cognitive Language Technology

KIISE

- ‘Generative Model Utilizing Multi-Level Attention for Persona-Grounded Long-Term Conversations’

Best Paper Award

2022. 10

The 34th Annual Conference on Human and Cognitive Language Technology

KIISE

- ‘Noised Guide-based Generative Model for Open-domain Conversation’

Research Excellence Scholarship

2023. 10, 2022. 10

- Scholarship awarded to students with outstanding research abilities

Konkuk Univ.

President's Award

2021. 12.

AI GRAND CHALLENGE – Threat Conversation Detection Track

IITP

President's Award

2020. 12.

Artificial Intelligence Idea Challenge Contest

Kwangwoon Univ.

- ‘Clothing Pattern Synthesis Program Utilizing GAN’

EXTRACURRICULAR ACTIVITIES

Teaching Assistant

2023. 09. – 2023. 12.

- for the Machine Learning course in the Department of Computer Engineering

Konkuk Univ.

Research for Undergraduate Students Program Mentor

2023. 09. – 2023. 12.

- Assist an undergraduate student in research and paper writing

Konkuk Univ.

Data Creator Camp Mentor

2023. 09. – 2023. 10.

- Participate as a mentor in the image classification hackathon

NIA

SW School Program Tutor

2021. 07., 2021. 02., 2021. 01., 2019. 01.

- Guide students in C and Python programming practices

Kwangwoon Univ.

SKILLS

Programming Languages

Python (skilled), C, Java, JavaScript, SQL

Deep Learning Frameworks

PyTorch, Tensorflow