



Bitna Keum

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RESEARCH INTERESTS: NLP, Dialogue Model, Generative AI, LLM

EDUCATION

- **Konkuk University** 2022. 03. – 2024. 02. (Expected)
Master's course, 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, Seongheum Park, Woojin Lee, and Harksoo Kim, “Chatbot Identifying Personas with Low-Cost Data Transformation”, *Under Review for Electronics (SI: Emerging Theory and Applications in Natural Language Processing)*, 2024.

• International Conferences

- [1] **Bitna Keum**, Hongjin Kim, Jinxia Huang, Ohwoog Kwon, and Harksoo Kim, “Cost-Effective Data Synthesis Framework for Long-Term Personalized Conversations”, *Under Review for LREC-COLING*, 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 Inc.** 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 Co., Ltd.** 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. 09. – Present
Graduate Research Assistant, Konkuk University 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 University 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 Competition – Threat Conversation Detection Task IITP
- **President's Award** 2020. 12.
AI Utilization Ideas Competition Kwangwoon Univ.
 - ‘Clothing Pattern Synthesis Program Utilizing GAN’

EXTRACURRICULAR ACTIVITIES

- **Teaching Assistant** 2023. 09. – 2023. 12.
– In the Machine Learning class 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
- **Operating Systems:** Windows, Linux
- **Cloud Computing Services:** AWS, GCP
- **DevOps:** Docker, Git