

Hyeongu Yun

· AI SCIENTIST @ LG AI RESEARCH ·

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Summary

An AI Scientist in LG AI Research with a year experience of training generative large language model with cutting-edge algorithms, curating massive corpora tailored for pre-training to align with specific objectives, and crafting instruction fine-tuning datasets to optimize the model's interactive capability with expected user's behaviors.

Work Experiences

EXAONE LAB. @ LG AI RESEARCH

Seoul, Republic of Korea

AI Scientist

Jul. 2022 - Current

- Developed "in-house" generative decoder-only large language models in multiple sizes and domains.
- Curated extensively massive corpora (up to 2 trillion tokens) from various sources for foundation LLMs.
- Built instruction fine-tuning datasets to make assistant-like generative LLMs.
- Designed suitable benchmarks for LLMs in various domains with specific objectives including human-preference.

Education

PH.D. IN DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Seoul, Republic of Korea

Seoul National University

Mar 2015 - Aug 2022

Advisor: Kyomin Jung, Professor, Seoul National University

Dissertation Title: Hierarchical Context Encoder for Natural Language Processing via Leveraging Contextual Information and Memory Attention

B.S. IN DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Seoul, Republic of Korea

Seoul National University

Feb 2015

Internship Experiences

RESEARCH INTERN

Oct. 2021 - Apr. 2022

at Microsoft Research Lab - Asia

- Research on Data augmentation with a context-controlled text generation model.

RESEARCH INTERN

Jun. 2017 - Aug. 2017

at NAVER Papago

- Research on neural machine translation for documents in HTML format. I developed a matching algorithm that finds an appropriate span for HTML tags on the translated documents corresponding to the original documents.

Publications

IN-CONTEXT INSTRUCTION LEARNING

preprint

Seonghyeon Ye, Hyeonbin Hwang, Sohee Yang, Hyeongu Yun, Yireun Kim, and Minjoon Seo

Under review process

PR-MCS: PERTURBATION ROBUST METRIC FOR MULTILINGUAL IMAGE CAPTIONING

preprint

Yongil Kim, Hyeongu Yun, Seunghyun Yoon, Trung Bui, Yerin Hwang, and Kyomin Jung

Under review process

GATED RELATIONAL TARGET-AWARE ENCODER AND LOCAL CONTEXT-AWARE DECODER FOR TARGET-ORIENTED OPINION WORDS EXTRACTION

IEEE Access

Taegwan Kang, Segwang Kim, Hyeongu Yun, Hwanhee Lee, Kyomin Jung

page 130507-130517, Volume 10, Dec
2022

MODALITY ALIGNMENT BETWEEN DEEP REPRESENTATIONS FOR EFFECTIVE VIDEO-AND-LANGUAGE LEARNING

Hyeongu Yun, Yongil Kim, Kyomin Jung

LREC 2022

Jun 2022, Marseille (France) and Online

CONTRASTIVE LEARNING FOR CONTEXT-AWARE NEURAL MACHINE TRANSLATION USING COREFERENCE INFORMATION

Yongkeun Hwang, Hyeongu Yun, Kyomin Jung

WMT 2021

Nov 2021, Punta Cana (Dominican Republic) and Online

PAIRWISE CONTEXT SIMILARITY FOR IMAGE RETRIEVAL SYSTEM USING VARIATIONAL AUTO-ENCODER

Hyeongu Yun, Yongil Kim, Taegwan Kang, Kyomin Jung

IEEE Access

page 34067 - 34077, Volume 9, Feb 2021

IMPROVING CONTEXT-AWARE NEURAL MACHINE TRANSLATION USING SELF-ATTENTIVE SENTENCE EMBEDDING

Hyeongu Yun, Yongkeun Hwang, Kyomin Jung

AAAI 2020

Jan 2020, New York City (USA)

EFFICIENT TRANSFER LEARNING SCHEMES FOR PERSONALIZED LANGUAGE MODELING USING RECURRENT NEURAL NETWORK

Seunghyun Yoon, Hyeongu Yun, Yuna Kim, Gyu-tae Park, Kyomin Jung

AAAI Workshop on Crowdsourcing, Deep Learning and Artificial Intelligence Agents
Feb 2017, San Francisco, (USA)

Domestic Publications

IMPROVING VIDEO-QA SYSTEM THROUGH MODALITY ALIGNMENT - AWARDED AS THE BEST PAPER

Yongil Kim, Hyeongu Yun, Kyomin Jung

KCC 2021

Jun 2021

IMAGE FEATURE HASHING WITH PAIRWISE CONTEXT SIMILARITY - AWARDED AS THE BEST PRESENTATION PAPER

Hyeongu Yun, Taegwan Kang, Kyomin Jung

KSC 2019

Dec 2019

Skills & Interests

PROGRAMMING SKILLS

Python ★★★, Tensorflow ★★★★★, Pytorch ★★★★★, C++ ★★☆☆