# **Doyoung Kim**

✓ doyoungkim@kaist.ac.kr ♦ https://doyoungkim-ml.github.io/ У @doyoungkim\_ml

Masters student developing generalist decision-making models by modeling human cognitive processes

## Education

# Graduate School of AI (GSAI), KAIST

Feb 2023 - Aug 2025

Master's degree in AI

Seoul. South Korea

Korea Advanced Institute of Science and Technology (KAIST) Feb 2017 - Aug 2022

Bachelor of Mathematics, Double Major in Computer Science

Daejeon, South Korea

Gyeonggi Science High School for the Gifted

Feb 2014 - Dec 2016

Mathematics major

Suwon, South Korea

# Research Experience

#### KAIST AI Research Intern (KAIRI)

Mar 2022 - Feb 2023

Enhancing instruction following ability of language models such as T5

## **Publications**

\* denotes equal contributions. See Google Scholar or Semantic Scholar for the full publications.

# Peer-Reviewed Conference Papers:

- [C8] Hyeonbin Hwang, **Doyoung Kim**, Seungwon Kim, Seonghyeon Ye, Minjoon Seo. "Self-Explore to Avoid the Pit: Improving the Reasoning Capabilities of Language Models with Fine-grained Rewards." EMNLP Findings, 2024.
- [C7] Hyunji Lee\*, **Doyoung Kim**\*, Jihoon Jun, Sejune Joo, Joel Jang, Kyoung-Woon On, Minjoon Seo. "Semiparametric Token-Sequence Co-Supervision." ACL, 2024.
- [C6] Hyunji Lee, Sejune Joo, Chaeeun Kim, Joel Jang, **Doyoung Kim**, Kyoung-Woon On, Minjoon Seo. "How Well Do Large Language Models Truly Ground?" NAACL, 2024.
- [C5] Seonghyeon Ye\*, **Doyoung Kim**\*, Sungdong Kim, Hyeonbin Hwang, Seungwon Kim, Yongrae Jo, James Thorne, Juho Kim, Minjoon Seo. "FLASK: Fine-grained Language Model Evaluation based on Alignment Skill Sets." ICLR Spotlight, 2024.
- [C4] Seungwon Kim, Sejune Joo, **Doyoung Kim**, Joel Jang, Seonghyeon Ye, Jaemin Shin, Minjoon Seo. "The CoT Collection: Improving Zero-shot and Few-shot Learning of Language Models via Chain-of-Thought Fine-Tuning." EMNLP, 2024.
- [C3] Joel Jang, Seungwon Kim, Seonghyeon Ye, **Doyoung Kim**, Lajanugen Logeswaran, Moontae Lee, Kyungjae Lee, Minjoon Seo. "Exploring the benefits of training expert language models over instruction tuning." ICML, 2023.
- [C2] Seonghyeon Ye, **Doyoung Kim**, Joel Jang, Joongbo Shin, Minjoon Seo. "Guess the instruction! making language models stronger zero-shot learners." ICLR, 2023.
- [C1] Seonghyeon Ye, Joel Jang, **Doyoung Kim**, Yongrae Jo, Minjoon Seo. "Efficiently Enhancing Zero-Shot Performance of Instruction Following Model via Retrieval of Soft Prompt." EMNLP Findings, 2023.

#### Workshop:

[W1] Doyoung Kim, Jongwon Lee, Jinho Park, Minjoon Seo. "How language models extrapolate outside the training data: A case study in Textualized Gridworld." NeurIPS Compositional Learning Workshop 2024.

# **Projects**

\* denotes equal contributions

[Pr1] Seonghyeon Ye\*, Yongrae Jo\*, **Doyoung Kim**\*, Sungdong Kim, Hyeonbin Hwang, Minjoon Seo. "SelFee: Iterative Self-Revising LLM Empowered by Self-Feedback Generation" 2023.

# **Invited Talks**

# National Information Society Agency (NIA)

Jul 2024

Fine-grained Evaluation for Generative AI

Adobe Research

Aug 2023

Fine-grained Evaluation for Generative AI

# Honors and Awards

#### Selected Awards:

- College Students Mathematics Competition, Korean Mathematical Society
  - Silver medal, Math major Division (2020)
  - Bronze medal, Freshmen Division (2017)

# Teaching Experiences

### Upstage Boostcamp AI Tech

Mar 2024 - Oct 2024

Machine Reading & Comprehension TA

### World Friends ICT Volunteer in Ethiopia

Jul 2017 - Aug 2017

Coding TA for ICPC Ethiopian Regional Contest candidates in ASTU

Adama, Ethiopia

# **Professional Services**

# **Student Mentoring:**

• Jaehyuk Doo (Jul 2024 - Dec 2024), BS at UIUC, Now MS at KAIST AI

# Reviewer:

- ACL rolling reviews (Feb, April, June in 2024)
- NeurIPS Workshop on Compositional Learning (2024)
- ICLR (2025)