Changyoon Lee

Ph.D. Student

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Research Interest

My research integrates natural language processing, AI and education to understand learners better and support them through adaptive LLM systems. I research and develop methods to capture learner understanding and learning contexts from learner-educator interactions, and devise personalized pedagogical approaches and adaptive systems to bring the most educational benefits to learners. Across these themes, my methods span various components of the LLM pipeline, including dataset and benchmark construction, post-training, and extending toward agentic systems.

Education

KAIST — *Daejeon, South Korea*

Ph.D. student in School of Computing — *September 2021 - Present*

- Advisor: Alice Oh

KAIST — *Daejeon, South Korea*

M.S. in School of Computing (Advisor: Alice Oh) — *March 2020 - August 2021*

- Advisor: Alice Oh
- Thesis: Code-based question answering model and training dataset for programming education

KAIST — *Daejeon, South Korea*

B.S. in School of Computing — *September 2015 - August 2019*

Publications

TutorLens: An Adaptive Framework for Evaluating AI Tutors in Active Learning Settings

EMNLP Workshop on NLP for Positive Impact — *2026*

- **Changyoon Lee**, Junyeong Park, Seungju Kim, Alice Oh

K-BrowseComp: A Web Browsing Agent Benchmark Grounded in Korean Contexts

Findings of EMNLP — *2026*

- Nahyun Lee, Dongkeun Yoon, Guijin Son, Geewook Kim, Dayoon Ko, Jeonghun Park, Haneul Yoo, Jaewon Cho, Junghun Park, **Changyoon Lee**, Kyochul Jang, Jaeyeon Kim, Eunsu Kim, Woojin Cho, Seungone Kim.

ML-IAM: Emulating Integrated Assessment Models With Machine Learning

Tackling Climate Change with Machine Learning workshop, NeurIPS 2025 — *2025*

- Yen Shin, **Changyoon Lee**, Eunsu Kim, Junho Myung, Kiwoong Park, Jiheun Ha, Min-Young Choi, Bomi Kim, Hyun W. Ka, Jung-Hun Woo, Alice Oh and Haewon McJeon.

Learning from Teaching Assistants to Formulate Subgoals for Programming Tasks: Exploring the Potential for AI Teaching Assistants

LLM in Education workshop, EDM 2024 & HuCLLM workshop, ACL 2024 — *2024*

- **Changyoon Lee**, Junho Myung, Jieun Han, Jiho Jin and Alice Oh.

Rethinking Annotation: Can Language Learners Contribute?

ACL 2023 — *2023*

- Haneul Yoo, Rifki Afina Putri, **Changyoon Lee**, Youngin Lee, So-Yeon Ahn, Dongyeop Kang, Alice Oh.

CS1QA: A Dataset for Assisting Code-based Question Answering in an Introductory Programming Course

NAACL 2022 — *2022*

- **Changyoon Lee**, Seonwoo Yeon, Alice Oh.

Snapstream: Snapshot-based Interaction in Live Streaming for Visual Art

CHI 2020 — *2020*

- Saelyne Yang, **Changyoon Lee**, Hijung Valentina Shin, Juho Kim.

automaTA: Human-Machine Interaction for Answering Context-Specific Questions

L@S 2019 *2019*

- **Changyoon Lee***, Donghoon Han*, Hyoungwook Jin*, Alice Oh. (*Contributed equally)

VocaBot: Language Learning App Powered by a Conversational Agent

HCI KOREA 2019 *2019*

- **Changyoon Lee**, Kyung Je Jo, Juho Kim.

Academic Services

Organizer

2024 Pre-ACL International NLP Workshop at KAIST

Reviewer

2021 NeurIPS Datasets and Benchmarks
2021 EMNLP
2026 Learning@Scale

Volunteer

2022 COLING Student Volunteer
2022 FAccT Student Volunteer
2026 Festival of Learning Student Volunteer
2026 ICML Workshop on Human-AI Co-Creativity

Teaching

Introduction to Programming (CS101) *KAIST, South Korea*

Head Teaching Assistant *Spring 2021 - Present*

Artificial Intelligence and Machine Learning (CS570) *KAIST, South Korea*

Teaching Assistant *Spring 2020*

Introduction to Programming (CS101) *KAIST, South Korea*

Teaching Assistant *Fall 2018, Spring 2019, Fall 2020*

Mentoring

Yen Shin

Research Mentor *Fall 2024 - Fall 2025*

- Mentorship resulted in a co-authored publication at the NeurIPS 2025 Tackling Climate Change with Machine Learning workshop

Hyungjo Bhang, Jeongin Bae

Research Mentor *Spring 2023*

Awards

School of Computing, KAIST

Outstanding Teaching Assistant Award *Fall 2025*

- Recognized for excellence in instructional support and course management

KAIST

Scholarship *Spring 2020 - Spring 2025*

- Scholarship for graduate studies

KAIST

Scholarship *Fall 2015 - Spring 2019*

- Full tuition scholarship for undergraduate studies

School of Computing, KAIST

Dean's List *Spring 2018, Fall 2018*

- Top 3% in the department

School of Computing, KAIST

Department Valedictorian *Spring 2018*

- Recognized as the top-ranking undergraduate student in the department

LINE

LINE Scholarship *Fall 2017*

- Scholarship of 4,000,000 KRW