

## Education

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### Stanford University

Palo Alto, USA

*Masters, Computer Science, 4.252 GPA*

- **Research:** LLM post-training (RLHF / DPO), LLM synthetic data and text embedding training.
- **Selected Coursework:** Independent Research (A+), NLP with Deep Learning (A+), Human-Centered LLMs (A+), AI: Principles & Techniques (A+), Probability for Computer Scientists (A+)

### KTH Royal Institute of Technology

Stockholm, Sweden

*Exchange Student, Computer Science*

### Korea Advanced Institute of Science and Technology

Daejeon, Korea

*Bachelor of Science, Physics & Computer Science*

## Work Experience

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### Monoclear.ai

Seattle, USA

*Founder*

- Launched the world's 1st "Korean LLM leaderboard" in collaboration with Eleuther AI, integrated 20K samples of 14 categorical LLM evaluation datasets. Evaluation consists of 3-shot and log-likelihood **evaluation pipelines**.
- Built **Monoclear.ai**, an AI web platform for enhanced evaluation of **LLM performance and safety**. 300+ reactions across social media with visitors from 10 countries.

### Amazon & AWS

Seattle, USA

*Machine Learning Engineer II @ Alexa AI, AWS AI*

- NLP research on contrastive learning of **text embeddings** for dialogue, resulting in 2 publications. Advised by Dr. Guoyin Wang. Improved classification accuracy metric by 32% on 834K synthetic dialogue sentences.
- Performed large-scale data augmentation and evaluation metric reporting with **PySpark**. Improved intent recall performance by 34% on 2M production voice assistant utterances.
- Maintained mission critical multi-tenant **Distributed Systems** of 4000 TPS.

### Hyperconnect (acquired by Match Group - Los Angeles, USA)

Seoul, Korea

*Technical Project Lead*

- Built 2 AI mobile applications while **leading a team of 10**, with object detection and image segmentation features. Achieved 550K+ organic downloads. - [Picai\(Press\)](#), [Aicut\(Press\)](#)
- Handled 80 personnel for **data gathering / data augmentation** for image-based recommendation models.

## Publications & Patents

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- [1] Minsik Oh, Jiwei Li and Guoyin Wang. [TaDSE: Template-aware Dialogue Sentence Embeddings](#). *ACL (To Appear)*, 2026
- [2] Minsik Oh, Sungju Kim, Douwe Kiela, Guoyin Wang, Kang Min Yoo and Joosung Lee. [Continual Pre-Training for Hallucination Reduction](#). *Preprint*, 2025
- [3] Minsik Oh, Advit Deepak, Sophie Wu, Douwe Kiela and Ekaterina Shutova. [Multi-Cultural Preference Optimization of Reward Models](#). *Preprint*, 2025
- [4] Mehmet Hamza Erol\*, Minsik Oh\* and Douwe Kiela. [Dynamic Summarization Length Control via Model Merging](#). *Preprint*, 2025
- [5] Minsik Oh, Joosung Lee, Jiwei Li and Guoyin Wang. [PK-ICR: Persona-Knowledge Interactive Context Retrieval for Grounded Dialogue](#). *EMNLP Main Conference (Oral Presentation)*, 2023.
- [6] Joosung Lee, Minsik Oh and Donghun Lee. [P5: Plug-and-Play Persona Prompting for Personalized Response Selection](#). *EMNLP Main Conference (Poster Presentation)*, 2023.
- [7] Minsik Oh, Guoyin Wang, Taiwoo Park and Puyang Xu. [Template-augmented Dialogue Representation Learning](#). *KnowledgeNLP-AAAI'23*, 2023.

- [8] Minsik Oh\*, Minsang Kim\*. Persona-Knowledge Dialogue Multi-Context Retrieval and Enhanced Decoding Methods. *The 1st Workshop on Customized Chat Grounding Persona and Knowledge @ COLING*, 2022.
- [9] Minsik Oh. NEAMER - Named Entity Augmented Multi-word Expression Recognizer. *The 16th International Workshop on Semantic Evaluation @ NAACL*, 2022.
- [10] SERVER AND OPERATING METHOD THEREOF. *US 11080325*, Hyperconnect, INC.
- [11] TERMINAL AND IMAGE PROCESSING METHOD THEREOF. *US 10855933*, Hyperconnect, INC.

## Personal Projects

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### Korean LLM Leaderboard - [monoclear.ai](#)

- Integrated KLUE subset, KOBEST and HAE-RAE Bench few-shot on-demand evaluations using **LM evaluation harness**. 10K lines of heavily custom **Python** and **React** code. 300+ reactions from 10 countries.

### Sentence Transformers (Distinction from HuggingFace) - [repository](#)

- Built 20 **text embedding** models with large-scale customized pre-training data mixtures, utilizable for search(retrieval) and Question Answering. Work with S-BERT author. 150K downloads of HuggingFace models.

### KoCLIP - [code](#)

- Handled 10K indexes of 512 dimension **CLIP model** vectors while implementing image search using NMSLIB, in the intersection of NLP and CV. 140+ stars on GitHub.

## Awards & Certificates

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### 1st place in CCGPK Shared Task @ COLING

- 1st place in both tasks of **dialogue grounding retrieval** and **text generation**.
- Resulted in an [EMNLP publication](#) and a [workshop publication](#).

### 2nd place in SemEval Shared Task @ NAACL

- Participated in Task 2: **Multilingual Idiomaticity Detection and Sentence Embedding**.
- Resulted in a [workshop publication](#).

### 1st place in Analyticon Visualization Contest @ AWS

- Company-wide **data visualization** competition of over 100 submissions, used **Python** on the project.
- Custom glass trophy awarded.

### Special Nominees in HuggingFace Competition

- HuggingFace event comprising 100 projects & 800 participants, built SOTA [Sentence Embeddings](#).
- Google Cloud Platform credits awarded.

## Mensa Member

### Silver Medal, Special Award in KPhO

- National-level Physics Olympiad in Korea.

## Academic Reviewer

- EMNLP reviewer
- ARR (ACL Rolling Review), SemEval reviewer
- ICLR Tiny Papers Track reviewer
- AMLC (Amazon Machine Learning Conference) reviewer

## Technical Skills

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**Languages:** Python, Java, Kotlin, Scala, Typescript, C/C++

**AI Tools:** Pytorch, Pandas, Numpy, HuggingFace, Tensorflow

**Technologies/Frameworks:** AWS, Spark, Flask, Django, FastAPI, React, Next.js, Gradio, Streamlit