

# Hyunjung Chae

✉ mapoout@yonsei.ac.kr




🌐 <https://hyungjoo-homepage.netlify.app/>

🌐 <https://www.linkedin.com/in/hyungjoo-chaee-21236a204>

## Summary

I am a linked B.S. and M.S. student in Yonsei University. My research interests include Dialogue Systems, Task-Oriented Dialogues, and Commonsense Reasoning. I love solving real life problems and I am very open-minded to collaborating with others.

## Employment History

- July 2022 – present     **Tutoring, Market Designers Inc.** Supervisor: Prof. Jinyoung Yeo
- Jul 2020 – Aug 2020     **Dino Plus Inc.** Engaged in a project, constructed dementia dataset for AI diagnosis.
- Feb 2021 – Sep 2021     **Apgujeong Dr.Choi's clinic** Developed company's homepage as a Project Owner. using React.js and Firebase framework.

## Education

- Feb 2019 – present     **Linked B.S. and M.S. Program, Computer Science, Yonsei University**

## Publications

### TUTORING: Instruction-grounded Conversational Agent for Language Learners

**Hyunjung Chae**, Minjin Kim, Chaehyeong Kim, Won Seok Jeong, Hye Soong Kim, June Myung Lee, Jinyoung Yeo

In Proceedings of AAAI 2023.

### Mind the Gap! Injecting Commonsense Knowledge for Abstractive Dialogue Summarization

Seungone Kim\*, Se June Joo\*, **Hyunjung Chae\***, Chae Hyeong Kim\*, Seung-won Hwang, Jinyoung Yeo




In Proceedings of COLING 2022.

## Projects

- **Building a Conversational Agent for Language Learners**  
Built an AI English tutor as a leader of a team in Tutoring. And publish it as a conference paper at AAAI-23 demonstrations.
- **Generating English Exam Questions using GPT-3 and SBERT**  
Proposed a framework which generates English exam questions.  
<https://github.com/kyle8581/QERT>
- **BiDAF implementation**  
Implemented BiDAF from scratch.  
<https://github.com/kyle8581/BiDAF>
- **MPAA rating with BERT and LongFormer**  
Predicted movie rating with BERT and LongFormer.  
[https://github.com/kyle8581/MPAA\\_rating\\_with\\_BERT](https://github.com/kyle8581/MPAA_rating_with_BERT)
- **SG-MLP: Switch Gated Multi-Layer Perceptron Model for Natural Language Understanding**  
Implemented SG-MLP and finetuned it on GLEU benchmark.  
[https://github.com/kyle8581/sgMLP\\_Implementation](https://github.com/kyle8581/sgMLP_Implementation)





## Competition Experience

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- 2021  **reached the finals**, MAIC: Voice AI Challenge 2021.
- 2020  Jooyeong Jung Startup Competition (team name: Eng-PT).
- 2019  Crypto Analysis Contest 2019.

## Skills

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|-----------------------|---|
| Programming Languages |  Python, Java, C/C++, JavaScript.                                    |
| Deep Learning         |  PyTorch, Tensorflow, CUDA.  |
| Web Dev               |  React.js, Firebase, Node.js, Django, Socket Programming, HTML, CSS. |
| Others                |  OpenGL, Unity, Figma, AdobeXD, BeautifulSoup, OpenMP                |