



# Shinyeok Oh

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<https://shinyeokoh.github.io>

**Research Interests:** NLP, Aspect-based Sentiment Analysis, Dialog System

## Education

2019.09 - 2021.02	<b>Kangwon National University</b>
(Master)	Department of Computer and Communications Engineering GPA: 4.31 / 4.5
2016.03 - 2021.02	<b>Kangwon National University</b>
(Bachelor)	Department of Computer and Communications Engineering GPA: 3.86 / 4.5

## Experience

2021.04 - Present	<b>Netmarble</b>
(Alternative Military Service)	NLP Researcher & Engineer
2020.09 - 2021.02.	<b>Kakao Enterprise</b>
(Research Internship)	NLP Researcher
2020.03 - 2020.09	<b>Natural Language Processing Lab, Konkuk University</b>
2018.08 - 2020.02	<b>Natural Language Processing Lab, Kangwon National University</b>

## Research & Development

### Automatic Post-editing on NMT

2021.04 - 2021.07	Research on Automatic Post-editing on NMT using Curriculum Learning Strategy and Multi-task Learning Strategy
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### Aspect-based Sentiment Analysis

2020.09 - 2021.02	Research on Aspect-based Sentiment Analysis using Self-supervised and Multi-task Learning
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## Dialog System

2018.08 - 2020.08      Research on Generative Chatbots

- Persona-based Chatbot
- Topic-based Chatbot

## Pre-trained Language Model

2020.05 - 2020.08      Development of Korean Pre-trained ELECTRA Model using Google Cloud Platform

## Publications

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### International Publications

- [3] **Shinhyeok Oh\***, Dongyub Lee\*, Taesun Whang, IlNam Park, Gaeun Seo, EungGyun Kim, Harksoo Kim, "Deep Context- and Relation-Aware Learning for Aspect-based Sentiment Analysis", Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (Volume 2: Short Papers), pp. 495-503, 2021.08. (**ACL2021**)
- [2] Gihyeon Choi, **Shinhyeok Oh**, Harksoo Kim, "Improving Document-Level Sentiment Classification Using Importance of Sentences", Entropy, Vol.22(12), pp.1-11, 2020.11. (**SCIE**)
- [1] Jintae Kim, **Shinhyeok Oh**, Oh-Woog Kwon, Harksoo Kim, "Multi-Turn Chatbot Based on Query-Context Attentions and Dual Wasserstein Generative Adversarial Networks", Appl. Sci., 3908, 2019.9. (**SCIE**)

### Domestic Publications

- [10] **Shinhyeok Oh**, Seokwon Jung, Harksoo Kim, "Method of Reflecting Various Personas in a Chatbot", Journal of KIIE, pp. 160-166, 2021. 2.
- [9] HongJin Kim, Damrin Kim, Boeun Kim, **Shinhyeok Oh**, Harksoo Kim, "Movie Reviews Sentiment Analysis Considering the Order in which Sentiment Words Appear", Proceedings of the 32th Annual Conference on Human and Cognitive Language Technology, pp. 313-316, 2020.10.
- [8] HongJin Kim, **Shinhyeok Oh**, Harksoo Kim, "Korean Named Entity Recognition Using ELECTRA and Label Attention Network", Proceedings of the 32th Annual Conference on Human and Cognitive Language Technology, pp. 333-336, 2020.10.
- [7] **Shinhyeok Oh**, Harksoo Kim, "Korean Generative Chatbot using Topic Embedding", Proceedings of the 32th Annual Conference on Human and Cognitive Language Technology, pp. 524-528, 2020.10.

- [6] **Shinhyeok Oh**, Harksoo Kim, Jeong-Eom Lee, Seona Kim, Youngmin Park, Myungho Noh, "Personal Characteristics Classifier for Persona Chatbot Research", Proceedings of the Korea Software Congress 2019, pp. 419-421, 2019.12.
- [5] **Shinhyeok Oh**, Jintae Kim, Harksoo Kim, Jeong-Eom Lee, Seona Kim, Youngmin Park, Myungho Noh, "Personalized Multi-Turn Chatbot Based on Dual WGAN", Proceedings of the 31th Annual Conference on Human and Cognitive Language Technology, pp. 49-53, 2019.10.
- [4] HongJin Kim, **Shinhyeok Oh**, Damrin Kim, Boeun Kim, Harksoo Kim, "Multi-head Attention and Pointer Network Based Syllables Dependency Parser", Proceedings of the 31th Annual Conference on Human and Cognitive Language Technology, pp. 572-574, 2019.10.
- [3] **Shinhyeok Oh**, Jintae Kim, Youngmin Park, Seona Kim, Jeong-Eom Lee, Harksoo Kim, "Persona Reflection Method for Generative Chatbot System", Korea Computer Congress 2019, pp. 1761-1763, 2019.06.
- [2] Seongsik Park, **Shinhyeok Oh**, Hongjin Kim, Sihyung Kim, Harksoo Kim, "Korean Dependency Parsing Using ELMo and Multi-head Attention", Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology, pp. 8-12, 2018.10.
- [1] Seongsik Park, **Shinhyeok Oh**, Hongjin Kim, Harksoo Kim, "Korean Dependency Parsing using Multi-head Attention and Pointer Network", Proceedings of the 30th Annual Conference on Human and Cognitive Language Technology, pp. 682-684, 2018.10.

## Awards

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- [5] Special Prize in Korean Language Information Processing Competition (Chatbot), 2020.10.
- [4] Special Prize in Korean Language Information Processing Competition (Sentiment Analysis), 2020.10.
- [3] Bronze Prize in Korean Language Information Processing Competition (Dependency Parsing), 2019.10
- [2] Gold Prize in 1st Kangwon SW Festival, 2019.09.
- [1] Grand Prize in Korean Language Information Processing Competition (Dependency Parsing), 2018.10.

## Certificates

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- Certificate of Engineer Information Processing, Human Resources Development Service of Korea, 19201110331K

## Skills

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- Languages: Python, Java, C, C#, HTML/CSS/JS, Android

- Deep Learning Libs: PyTorch, Tensorflow
- Etc.: Springboot, Gnuboard