

# HWIJEEN AHN

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RESEARCH INTEREST	<b>Direction-wise:</b> Multilingual NLP, Social NLP <b>Method-wise:</b> Efficient transfer learning, Linguistic structure in neural models	
EDUCATION	<b>Carnegie Mellon University</b> MASTER IN LANGUAGE TECHNOLOGIES <i>Advisor: Eduard Hovy</i>	Sep. 2022 - Current Pittsburgh, USA
	<b>Sogang University</b> M.S. IN COMPUTER SCIENCE AND ENGINEERING CGPA: 4.38 / 4.5 <i>Advisor: Jungyun Seo</i>	Mar. 2018 - Feb. 2021 Seoul, Korea
	<b>Sogang University</b> B.A. IN AMERICAN CULTURE, PSYCHOLOGY Summa Cum Laude <i>2-year leave of absence as military interpreter</i>	Mar. 2011 - Feb. 2018 Seoul, Korea
RESEARCH EXPERIENCE	<b>Research Engineer</b> NAVER, <a href="#">CLOVA</a> <ul style="list-style-type: none"><li>Studied effect of pretraining corpora on in-context learning of GPT-3</li><li>Implemented prompt tuning methods using model and data parallelism</li><li>Developed framework for pretraining and distributing language models</li></ul> <b>Visiting student</b> LANGUAGE TECHNOLOGIES INSTITUTE, CARNEGIE MELLON UNIVERSITY <ul style="list-style-type: none"><li>Proposed cultural similarity features for cross-lingual transfer</li><li>Devised crosslingual data selection method for offensive language detection</li><li>Attained GPA of 4.00 / 4.33 in graduate level coursework</li></ul> <b>Research Assistant</b> SOGANG NATURAL LANGUAGE PROCESSING LAB <ul style="list-style-type: none"><li>Proposed denoising-based grammar error correction method</li><li>Developed SOTA Korean dependency parser using morpheme information</li><li>Researched method to detect bias in multilingual neural models</li></ul>	Jan. 2021 - Apr. 2022 Seongnam, Korea  Aug. 2019 - Feb. 2020 Pittsburgh, USA  Mar. 2018 - Feb. 2021 Seoul, Korea
PUBLICATIONS	Seongjin Shin* , Sang-Woo Lee*, <u>Hwijeon Ahn</u> , Sungdong Kim, HyoungSeok Kim, Boseop Kim, Kyunghyun Cho, Gichang Lee, Woomyoung Park, Jung-Woo Ha, Nako Sung. 2022. On the Effect of Pretraining Corpora on In-context Few-shot Learning by a Large-scale Language Model. <i>Proceedings of the 2022 Conference on North American Chapter of the Association for Computational Linguistics (NAACL)</i> . <a href="#">[pdf]</a>  <u>Hwijeon Ahn</u> *, Jimin Sun*, Chan Young Park*, Yulia Tsvetkov, David R. Mortensen. 2020. Cross-Cultural Similarity Features for Cross-Lingual Transfer Learning of Pragmatically Motivated Tasks. <i>Proceedings of the 2021 Conference on European Chapter of the Association for Computational Linguistics (EACL)</i> . <a href="#">[pdf]</a>  <u>Hwijeon Ahn</u> *, Jimin Sun*, Chan Young Park*, Jungyun Seo. 2020. NLPDove at SemEval-2020 Task 12: Improving Offensive Language Detection with Cross-lingual Transfer. In <i>Proceedings of the Fourteenth Workshop of Semantic Evaluation (SemEval)</i> . <a href="#">[pdf]</a>  <u>Hwijeon Ahn</u> , Minyoung Seo, Chanmin Park, Juae Kim, Jungyun Seo. 2019. Extensive Use of Morpheme Features in Korean Dependency Parsing. In <i>Proceedings of the IEEE International Conference on Big Data and Smart Computing (BigComp)</i> .	

HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• N INNOVATION AWARD (RESEARCH AND DEVELOPMENT TRACK), NAVER CLOVA, 2021. Won \$30,000 as team for pretraining Korean GPT-3 and developing tune-as-a-service.</li> <li>• N INNOVATION AWARD (RESEARCH AND DEVELOPMENT TRACK), NAVER CLOVA, 2021. Participated in efficient prompt tuning of Korean GPT-3 for CareCall project.</li> <li>• N INNOVATION AWARD (SHARING LESSONS LEARNED TRACK), NAVER CLOVA, 2021. Won \$3,000 for sharing experience in developing a unified framework for language models.</li> <li>• WINNER, NAVER <a href="#">AI RUSH</a>, 2020. Achieved competitive performance in grammar error correction competition and spam mail detection, winning \$18,000.</li> <li>• GOLD PRIZE, NLP competition by <a href="#">National Institute of Korean Language</a>, 2018. Achieved state-of-the-art performance in Korean dependency parsing.</li> <li>• POPULARITY PRIZE, Sogang University Hackathon, 2017</li> <li>• CORE SCHOLARSHIP, <a href="#">National Research Foundation of Korea</a>, 2017</li> <li>• SEMESTER HIGH HONORS, Sogang University, 2016,2017</li> <li>• JEANNINE MANUEL AWARD, <a href="#">Ecole Jeannine Manuel</a>, 2008</li> </ul>
ACADEMIC ACTIVITIES	<ul style="list-style-type: none"> <li>• Oral presentation on pretraining large scale language models, NAVER <a href="#">DEVIEW</a>, 2021</li> <li>• Oral presentation on natural language review generation from categorical attributes, BOAZ Big Data Society, 2020</li> </ul>
PATENT	Korean dependency parser (Patent No. 10-2018-0148817)
TECHNICAL SKILLS	<p><b>Python stack:</b> PyTorch, Transformers, Pytorch Lightning, Hydra, MegatronLM</p> <p><b>Older experience:</b> C, C++</p> <p><b>Others:</b> Git, Docker, Vim, Tmux, Shell, Linux</p>
LANGUAGE	Fluent in <b>English</b> , Native in <b>Korean</b> , Intermediate in <b>French</b>