# Dongin Jung

Seoul, Republic of Korea dongin1009@gmail.com https://github.com/dongin1009			
Experience	QRAFT Technologies, Seoul, Repulic of Korea NLP/LLM Researcher on AI Tech Lab NLP/LLM Researcher Intern on AI Tech Lab	Apr. 2024 - Present Jan. 2024 - Mar. 2024	
	• LLM domain adaptation to know financial terminolo	~	
	<ul><li>Summarization &amp; translation quality evaluation by open-source LLM</li><li>Finance chatbot with Korean, financial, legal knowledge understanding</li></ul>		
	SK Planet, Seongnam, Republic of Korea AI Engineer Intern on IoT Development Team	Apr. 2023 - Jul. 2023	
	• Detecting defective parts and unifying multiple types in manufacturing industry		
	<ul><li>Real-time road object detection &amp; tracking in real-world environment</li><li>Denoise weather status on video for weather removal and clear video</li></ul>		
Education	<ul> <li>Chung-Ang University, Seoul, Republic of Korea M.S. in Artificial intelligence</li> <li>Advisor: Prof. Yoon-Sik Cho (in Data Science Lab)</li> <li>Thesis: Data Relation Modeling Methods for Multip</li> <li>GPA: 4.34 / 4.5</li> </ul>	Mar. 2021 - Feb. 2023 de Fake News Detection	
	<ul> <li>GPA: 4.54 / 4.5</li> <li>Wonkwang University, Iksan, Republic of Korea</li> <li>B.S. in Computer Software Engineering</li> <li>B.S. in Digital Forensic (Double Major)</li> <li>Advisor: Prof. Jongmin Lee (in Computing System</li> <li>GPA: 3.91 / 4.5</li> </ul>	Mar. 2017 - Feb. 2021 Mar. 2018 - Feb. 2021 Lab)	
Skills	Research Areas: Natural Language Understanding & Na Graph Neural Network, Contrastive Le Environment: Linux (CAU DS Lab. server admin), Git, A Framework: PyTorch, torch geometric, Tensorflow, Hugg	arning, LLM, PEFT Anaconda, Slurm, DeepSpeed	

### Publications

## Journal

• **Dongin Jung**, EungYeop Kim, and Yoon-Sik Cho, "Topological and Sequential Neural Network Model for Detecting Fake News", IEEE Access (Vol. 11), 2023

- Paper: https://ieeexplore.ieee.org/document/10363175

- Code: https://github.com/dongin1009/TSNN-DFN

- **Dongin Jung**, Misuk Kim, and Yoon-Sik Cho, "Detecting Documents With Inconsistent Context", IEEE Access (Vol. 10), 2022
  - Paper: https://ieeexplore.ieee.org/document/9875276
  - Code: https://github.com/dongin1009/GraDID

### Conference

- Seongmin Kang, **Dongin Jung**, and Yoon-Sik Cho, "Video Retrieval with Tree based Video Segmentation", International Conference on Database Systems for Advanced Applications (DASFAA 2023)
  - Paper: https://link.springer.com/chapter/10.1007/978-3-031-30675-4\_29
- Dongin Jung, and Yoon-Sik Cho, "Automatic Conversation Turn-Taking Segmentation in Semantic Facet", 2023 International Conference on Electronics, Information, and Communication (ICEIC 2023)
  - Paper: https://ieeexplore.ieee.org/document/10049858 [PDF]
  - Code: https://github.com/dongin1009/semantic-turn-taking-prediction
- 정동인, 김응엽, 강성민, 조윤식, "이미지 검색을 위한 대조 학습 모델의 한국어 학습 방법", 대한전자공학회 2022년도 하계종합학술대회
  - Paper: https://www.eiric.or.kr/KeyDocs/tmp/2813-2816.pdf
  - Code: https://github.com/dongin1009/Ko-CLIP

### Submitted & Preparing

- Dae-Sung Wang, **Dongin Jung**, Hyun-Taek Hong, Yoon-Sik Cho, and Chan-Gun Lee, "Exploiting Component Information with a Context-based Language Model for Effective Bug Triage", (Under review)
- **Dongin Jung**, Jaehyeok Ahn, and Yoon-Sik Cho, "Joint Contrastive and Supervised Learning in Human Activity Recognition", (in preparation)

- Code: https://github.com/dongin1009/joint\_supcon\_har

#### Projects

- Text Fake News Detection (sponsored by KOCCA) Mar. 2021 Dec. 2022
  - Defined fake news into 2 types: inconsistent content news and non-fact news.
  - Proposed concept of 'supernode' and detected fake news by using language models and graph neural networks.
- HW/SW platform for interactive self-monitoring in real-time addressing mental health problems based on brain-cognitive behavioral data (sponsored by IITP) Mar. 2021 - Dec. 2021
  - Recognized depression using time-series smartphone sensor values of users.
  - Analyze sensor feature of user by considering feature characteristics.

	<ul> <li>Polyglot: Multilingual Large Language Models <ul> <li>Collect and preprocess large-scale Romance language</li> <li>The goal is to develop large-scale text generation model based on GPT architecture.</li> <li>Work as a member of the 'polyglot-Korean Pre-train EleutherAI (AI open-source community).</li> </ul> </li> <li>KR3: Korean Restaurant Review with Ratings dataset <ul> <li>Built a Korean positive &amp; negative restaurant text rev</li> <li>Performed task-adaptive pretraining and qualified the effect on cross-task review datasets.</li> <li>Worked as a member of the 'time-series group' belong</li> </ul> </li> </ul>	els, named 'Polygl ing' group belong Apr. 2021 - Dec view dataset. e additional pretr	ot-v2', ging to c. 2021 caining
	• Development of an Online Learning Management System (sponsored by Central Center at Wonkwang Univ.) Jun. 2020 -		
	– Developed an online LMS Platform for contactless learning.		
Patents	<b>정동인</b> , "시각장애인을 위한 음성 챗봇 시스템 및 방법", 출원번호: 10-2021-0020237, 2021		
	<b>정동인</b> , 강현지, 김수빈, 윤지환, 장형국, 조영진, "스마트 화분 장치", 등록번호: 10-2170452 (출원번호: 10-2020-0029729),		2020
Activities	EleutherAI, Polyglot team contributor	Oct. 2022 - P	'resent
	DIYA, time-series team member Apr. 2021 - Dec		. 2021
	Artineer, department programming club president	ineer, department programming club president Mar. 2019 - Feb.	
	LIKELION at Wonkwang University, staff	Mar. 2019 - Feb	). 2020
Awards and Honors	Dacon 물류 유통량 예측 경진대회, 29th/237 (top 12.2%)		2021
	Dacon 동서발전 태양광 발전량 예측 AI 경진대회, 11th/234 (top 4.7%)		2021
	Creative Competence Award (Greatest in Creative Score), Wonkwang Univ.		2021
	Best Award on Major SW Competition, Wonkwang Univ.		2020
	Excellence Award on LINC+ Startup Idea Competition, Wonkwang Univ.		2020
	Bronze Award on Student Portfolio Competition, Wonkwang Univ.		2019
	Bronze Award on Creative Software Competition, Wonkwang Univ.		2019
	Bronze Award on Corporate Linked Capstone Design, Wonkwang Univ.		2019