

# Dongin Jung

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Seoul, Republic of Korea  
dongin1009@gmail.com  
<https://github.com/dongin1009>

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**Experience** SK Planet, Seongnam, Republic of Korea  
AI Engineer Intern in IoT Development Team Apr. 2023 - Jul. 2023

- Applying and developing the recent AI model to industrial work
- Anomaly Detection in Manufacturing Industry
- Object Detection & Tracking

**Education** Chung-Ang University, Seoul, Republic of Korea  
*M.S. in Artificial intelligence* Mar. 2021 - Feb. 2023

- Advisor: Prof. Yoon-Sik Cho
- Thesis: Data Relation Modeling Methods for Multiple Fake News Detection
- GPA: 4.34 / 4.5

Wonkwang University, Iksan, Republic of Korea  
*B.S. in Computer Software Engineering* Mar. 2017 - Feb. 2021  
*B.S. in Digital Forensic (Double Major)* Mar. 2018 - Feb. 2021

- Advisor: Prof. Jongmin Lee
- GPA: 3.91 / 4.5

**Skills** **Research Areas:** Natural Language Processing & Natural Language Understanding,  
Graph Neural Network, Contrastive Learning  
**Environment:** Linux (CAU DS Lab. server admin), Git, Anaconda, Docker, Slurm  
**Framework:** pytorch, torch geometric, tensorflow, huggingface, scikit-learn

## Publications

### Journal

- **Dongin Jung**, Misuk Kim, and Yoon-Sik Cho, “Detecting Documents With Inconsistent Context”, IEEE Access, 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](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

- **Dongin Jung**, EungYeop Kim, and Yoon-Sik Cho, “Topological and Sequential Neural Network Model for Detecting Fake News”, (submitted)
- 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”, (submitted)
- **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](https://github.com/dongin1009/joint_supcon_har)

## Projects

- Text Fake News Detection 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.
  - Sponsored by Korea Creative Content Agency (KOCCA).
- HW/SW platform for interactive self-monitoring in real-time addressing mental health problems based on brain-cognitive behavioral data Mar. 2021 - Dec. 2021
  - Recognized depression using time-series smartphone sensor values of users.
  - Analyze sensor feature of user by considering feature characteristics.
  - Sponsored by Institute of Information & Communications Technology Planning & Evaluation (IITP)
- Polyglot: Multilingual Large Language Models Oct. 2022 - Present
  - Collect and preprocess large-scale [Romance language text data](#).
  - The goal is to develop large-scale text generation models based on GPT architecture and analyze relations with linguistic families.
  - Work as a member of the polyglot-Romance & polyglot-Korean group belonging to EleutherAI.

	<ul style="list-style-type: none"> <li>• <a href="#">KR3: Korean Restaurant Review with Ratings dataset</a> Apr. 2021 - Dec. 2021 <ul style="list-style-type: none"> <li>– Built a Korean positive &amp; negative restaurant text review dataset.</li> <li>– Performed task-adaptive pretraining and qualified the additional pretraining effect on cross-task review datasets.</li> <li>– Worked as a member of the time-series group belonging to DIYA.</li> </ul> </li> <li>• <a href="#">Development of an Online Learning Management System</a> Jun. 2020 - Dec. 2020 <ul style="list-style-type: none"> <li>– Developed an online LMS Platform for contactless learning.</li> <li>– Sponsored by SW Central Center at Wonkwang Univ.</li> </ul> </li> </ul>
<b>Patents</b>	<p><a href="#">정동인</a>, “시각장애인을 위한 음성 챗봇 시스템 및 방법”, 출원번호: 10-2021-0020237, 2021</p> <p><a href="#">정동인</a>, 강현지, 김수빈, 윤지환, 장형국, 조영진, “스마트 화분 장치”, 등록번호: 10-2170452 (출원번호: 10-2020-0029729), 2020</p>
<b>Activities</b>	<p><a href="#">EleutherAI</a>, Polyglot-Romance group member Oct. 2022 - Present</p> <p><a href="#">DIYA</a>, time-series group member Apr. 2021 - Dec. 2021</p> <p><a href="#">Artineer</a>, department programming club president Mar. 2019 - Feb. 2020</p> <p><a href="#">LIKELION</a> at Wonkwang University, staff Mar. 2019 - Feb. 2020</p>
<b>Awards and Honors</b>	<p>Dacon <a href="#">물류 유통량 예측 경진대회</a>, 29th/237 (top 12.2%) 2021</p> <p>Dacon <a href="#">동서발전 태양광 발전량 예측 AI 경진대회</a>, 11th/234 (top 4.7%) 2021</p> <p>Creative Competence Award (Greatest in Creative Score), Wonkwang Univ. 2021</p> <p>Best Award on Major SW Competition, Wonkwang Univ. 2020</p> <p>Excellence Award on LINC+ Startup Idea Competition, Wonkwang Univ. 2020</p> <p>Bronze Award on Student Portfolio Competition, Wonkwang Univ. 2019</p> <p>Bronze Award on Creative Software Competition, Wonkwang Univ. 2019</p> <p>Bronze Award on Corporate Linked Capstone Design, Wonkwang Univ. 2019</p>