Myeong-jun (M.J) Jang

Oxfordshire, United Kingdom

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 https://mj-jang.github.io/

Expertise: Natrual Language Processing, Deep Learning, Machine Learning

Research Interest

o Trustworthy and consistent neural language models
o Application of NLP techniques to industry

Education

University of Oxford   **Oxfordshire, United Kingdom**
Dphil in Computer Science   *Oct. 2020 – Present*

o Specialization: natural language processing, machine learning, and deep learning
o Advisor: Thomas Lukasiewicz

Korea University   **Seoul, Republic of Korea**
M.Eng in Industrial Management Engineering   *Mar. 2017 – Feb.2019*

o Specialization: natural language processing, machine learning, and deep learning
o Advisor: Pilsung Kang
o GPA: 4.31 / 4.5

Korea University   **Seoul, Republic of Korea**
B.S in Industrial Management Engineering   *Mar. 2013 – Feb.2017*

o GPA: 3.95 / 4.5

Work Experience

AI Language Tech Labs   **SK Telecom**
NLP Scientist & Engineer   Nov. 2019 – Sep. 2020

1. Project: Developing T-World Communication bot for supporting customer service
o Responsible for developing and deploying NLU and small-talk engines.
o Constructed a dialogue policy maker.
o Connected user-info API to an NLG system.
o The public beta service is launched on 27th, Aug, 2020
o 2019.11 – 2020.09

Data Machine Intelligence Group   **SK Telecom**
NLP & Machine Learning Engineer   Sep. 2019 – Oct. 2019

1. Project: Data Annotation framework System for Human-involved Active Learning
o Responsible for building a system for training and deploying semi-labelling ML models, and retraining
  after human annotation.
o 2019.04 - 2019.08

2. Project: T-direct Communication bot
o Responsible for developing and deploying an NLU engine.
o 2019.04 - 2019. 11

Research Papers

International Journal & Conference

1. **Myeongjun Jang**, Deuk Sin Kwon, Thomas Lukasiewicz*. (2022). BECEL: Benchmark for Consistency Evaluation of Language Models, *In Proceedings of International Conference on Computational Linguistics (COLING) 2022*, Accepted for Publication, Association for Computational Linguistics.
2. **Myeongjun Jang**, Dohyung Kim, Deuk Sin Kwon, Eric Davis. (2022). KoBEST: Korean Balanced Evaluation of Significant Tasks, *In Proceedings of International Conference on Computational Linguistics (COLING) 2022*, Accepted for Publication, Association for Computational Linguistics.
3. **Myeongjun Jang**, Thomas Lukasiewicz*. (2022). NoiER: An Approach for Training more Reliable Fine-Tuned Downstream Task Models, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, *VOLUME 30*, 2514-2525. [DOI].
4. **Myeongjun Jang**, Frank Mtumbuka, Thomas Lukasiewicz*. (2022). Beyond Distributional Hypothesis: Let Language Models Learn Meaning-Text Correspondence, *In Findings of the Association for Computational Linguistics: NAACL 2022, Seattle, United States*, pp. 2030-2042, Association for Computational Linguistics. [DOI]
5. **Myeongjun Jang**, Pilsung Kang*. (2022). Sentence Transition Matrix: An efficient approach that preserves sentence semantics, *Computer Speech & Language*, *VOLUME 71*, 101266. [DOI]
6. Czangyeob Kim, **Myeongjun Jang**, Seungwan Seo, Kyeongchan Park, Pilsung Kang*. (2021). Intrusion Detection based on Sequential Information preserving Log Embedding Methods and Anomaly Detection Algorithms, *IEEE Access*, *VOLUME 9*, 58088-58101. [DOI]
7. **Myeongjun Jang**, Pilsung Kang*. (2021). Learning-free Unsupervised Extractive Summarization Model, *IEEE Access*, *VOLUME 9*, 14358-14368. [DOI]
8. **Myeongjun Jang**, Pilsung Kang*. (2020). Paraphrase Thought: Sentence Embedding Module Imitating Human Language Recognition, *Information Sciences*, *Volumn 541*, 123-145. (SCI) [DOI]
9. Seungwan Seo, Deokseong Seo, **Myeongjun Jang**, Jaeyun Jung, Pilsung Kang*. (2020). Unusual customer response identification and visualization based on text mining and anomaly detection, *Expert Systems With Applications*, *Volume 144*, 113111. (SCIE) [DOI]
10. **Myeongjun Jang**, Seungwan Seo, Pilsung Kang*. (2019). Recurrent Neural Network-Based Semantic Variational Autoencoder for Sequence to Sequence Learning, *Information Sciences*, *Volume 490*, 59-73. (SCI) [DOI]

Domestic Journal & Conference

1. Kyeonghyeon Mo, Jason Park, **Myeongjun Jang**, Pilsung Kang*. (2017). Text Classification based on Convolutional Neural Network with Word and Character Level, *Journal of the Korean Institute of Industrial Engineers (JKIIE)*, 44(3), 180-188. [DOI]

Patents

1. Method and Apparatus for Detection of Anomaly on Computer System
   - Y.J Yoon, H.S Yoon, H.S Lee, S.D Heo, K.S Kim, Y.J Jeong, P.S Kang, C,Y Kim, **M.J Jang**, S.W Seo, K.C Park
   - Korea - Registration No.10-2088509

Technical Strength

Advanced	Python, R
Intermediate	Java
Novice	Julia, C++

Language Proficiency

Working proficiency in **English**, native in **Korean**

- IELTS: overall 8.0 (Listening 8.5, Reading 9.0, Writing 6.5, Speaking 7.5)
- New GRE: (Verbal 152, Quantitative 167, Analytical Writing 3.0)
- iBT TOEFL: 99 (Reading 29, Listening 24, Speaking 22, Writing 24)