

Jinhyuk Lee

Ph.D. in Computer Science and Engineering
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EDUCATION

| | |
|---|----------------------|
| Korea University, Seoul Ph.D. in Computer Science and Engineering (4.5/4.5) Advisor: Prof. Jaewoo Kang | Mar 2016 - Aug 2019 |
| Korea University, Seoul B.S. in Computer Science and Engineering (3.71/4.5) Advisor: Prof. Jaehoon Lee | Mar 2011 - Feb 2016 |
| State University of New York Korea, Incheon Software Technology and Enterprise (Summer School) | June 2013 - Aug 2013 |

PUBLICATIONS

- Look at the First Sentence: Position Bias in Question Answering**
Miyoungh Ko, **Jinhyuk Lee**, Hyunjae Kim, Gangwoo Kim, Jaewoo Kang
EMNLP 2020 (long)
- Adversarial Subword Regularization for Robust Neural Machine Translation**
Jungsoo Park, Mujeen Sung, **Jinhyuk Lee**, Jaewoo Kang
Findings of ACL: EMNLP 2020 (short)
- Contextualized Sparse Representations for Real-Time Open-Domain Question Answering**
Jinhyuk Lee, Minjoon Seo, Hannaneh Hajishirzi, Jaewoo Kang
ACL 2020 (short)
- Biomedical Entity Representations with Synonym Marginalization**
Mujeen Sung, Hwisang Jeon, **Jinhyuk Lee**, Jaewoo Kang
ACL 2020 (long)
- BioBERT: a Pre-trained Biomedical Language Representation Model for Biomedical Text Mining**
Jinhyuk Lee*, Wonjin Yoon*, Sungdong Kim, Donghyeon Kim, Sunkyu Kim, Chan Ho So, Jaewoo Kang
Bioinformatics (2020)
- Real-Time Open-Domain Question Answering on Wikipedia with Dense-Sparse Phrase Index**
Minjoon Seo*, **Jinhyuk Lee***, Tom Kwiatkowski, Ankur Parikh, Ali Farhadi, Hannaneh Hajishirzi
ACL 2019 (long)
- ReSimNet : Drug Response Similarity Prediction based on Siamese Neural Network**
Minji Jeon*, Donghyeon Park*, **Jinhyuk Lee**, Hwisang Jeon, Miyoungh Ko, Sunkyu Kim, Yonghwa Choi, Aik-Choon Tan, Jaewoo Kang
Bioinformatics (2019)
- CollaboNet : Collaboration of Deep Neural Networks for Biomedical Named Entity Recognition**
Wonjin Yoon*, Chan Ho So*, **Jinhyuk Lee**, Jaewoo Kang
BMC Bioinformatics (2019)

A Neural Named Entity Recognition and Multi-Type Normalization Tool for Biomedical Text Mining

Donghyeon Kim, **Jinhyuk Lee**, Chan Ho So, Hwisang Jeon, Minbyul Jeong, Yonghwa Choi, Wonjin Yoon, Mujeen Sung, Jaewoo Kang
IEEE Access (2019)

Pre-trained Language Models for Biomedical Question Answering

Wonjin Yoon, **Jinhyuk Lee**, Donghyeon Kim, Minbyul Jeong, Jaewoo Kang
BioASQ Workshop at ECML PKDD 2019

Ranking Paragraphs for Improving Answer Recall in Open-Domain Question Answering

Jinhyuk Lee, Seongjun Yun, Hyunjae Kim, Miyoung Ko, Jaewoo Kang
EMNLP 2018 (short)

Learning User Preferences and Understanding Calendar Contexts for Event Scheduling

Donghyeon Kim*, **Jinhyuk Lee***, Donghee Choi, Jaehoon Choi, Jaewoo Kang
CIKM 2018 (full)

DeepNAP : Deep Neural Anomaly Pre-detection on a Semiconductor Fab

Chunggyeom Kim*, **Jinhyuk Lee***, Raehyun Kim, Youngbin Park, Jaewoo Kang
Information Sciences (2018)

Name Nationality Classification with Recurrent Neural Networks

Jinhyuk Lee, Hyunjae Kim, Miyoung Ko, Donghee Choi, Jaehoon Choi, Jaewoo Kang
IJCAI 2017 (full)

EXPERIENCE

Korea University

Postdoctoral Researcher

Sep 2019 - Present

Seoul, Korea

- Leading a research on automatic knowledge base construction from question answering models
- Advising researches on question answering, biomedical text mining, and other NLP applications.
- Teaching Data Science lecture (CVH126) and fulfilling mandatory military service.

NAVER Clova

Research Intern (Mentor: Minjoon Seo)

July - Sep 2019, Nov 2018 - Feb 2019

Seongnam, Korea

- Worked on real-time open-domain question answering.
- Improved contextualized sparse representations for question answering.
- Worked on large pre-trained language models for the biomedical domain.

Konolabs, Inc.

Research Intern (Mentor: Jaehoon Choi)

Mar - Aug 2016

Seoul, Korea

- Developed a deep learning-based calendar scheduling system.

Tagme, Inc.

Startup CEO

Aug 2014 - Feb 2016

Seoul, Korea

- Provided cloud storage service with memorable file links.

Jiransoft, Inc.

Software Engineer Intern

June - July 2014

Seoul, Korea

- Developed an android mobile application.

HONORS & AWARDS

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| Winner of the Seventh BioASQ Challenge (Task 7b, Phase B) Provided a backbone model (BioBERT) and handled yes/no questions. | Sep 2019 |
| Winner of Multi-Targeting Drug DREAM Challenge | Nov 2018 |
| Korea University Best Honors Scholarships | Mar 2014 |
| The Grand Prize, Start-up Competition, Korea University | Jan 2014 |
| Venture Internship Program Scholarships, Korea University | Dec 2013 |
| Software Technology and Enterprise Program Scholarships, Korea University | Mar 2013 - Dec 2014 |

SERVICES

EMNLP 2020, ACL 2020, AKBC 2020, 2nd MRQA Workshop at EMNLP 2019
Conference/Workshop Reviewer

PLOS ONE, IEEE Access, IEEE TCBB
Journal Reviewer

TEACHING

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| CVH126 Introduction to Data Science, Korea University Lecturer | Fall 2019 |
| COSE214 Algorithms, Korea University Teaching Assistant | Fall 2016 |

REFERENCES

Jaewoo Kang
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Jaegul Choo
Associate Professor, Graduate School of Artificial Intelligence, KAIST
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Minjoon Seo
Assistant Professor, Graduate School of Artificial Intelligence, KAIST
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