

# Jinhyuk Lee

Ph.D. in Computer Science and Engineering  
Visiting Scholar @ Princeton University  
Research Professor @ Korea University

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<https://jhyuklee.github.io>

## EXPERIENCE

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<b>Princeton University</b> Visiting Scholar (Host: Danqi Chen)	Jan 2021 - Present
<b>Korea University</b> Research Professor	Sep 2019 - Present
<b>NAVER Clova</b> Research Intern (Host: Minjoon Seo)	Nov 2018 - Feb 2019, July 2019 - Sep 2019

## EDUCATION

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<b>Korea University</b> Ph.D. in Computer Science and Engineering (Advisor: Jaewoo Kang)	Mar 2016 - Aug 2019
<b>Korea University</b> B.S. in Computer Science and Engineering (Advisor: Jaehoon Lee)	Mar 2011 - Feb 2016
<b>State University of New York Korea</b> Software Technology and Enterprise (Summer School)	June 2013 - Aug 2013

## PUBLICATIONS

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### **Learning Dense Representations of Phrases at Scale**

**Jinhyuk Lee**, Mujeen Sung, Jaewoo Kang, Danqi Chen  
ACL 2021 (long)

### **Look at the First Sentence: Position Bias in Question Answering**

Miyoung 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)

### **Answering Questions on COVID-19 in Real-Time**

**Jinhyuk Lee**, Sean S Yi, Minbyul Jeong, Mujeen Sung, Wonjin Yoon, Yonghwa Choi, Miyoung Ko, Jaewoo Kang  
EMNLP 2020, NLP COVID-19 Workshop (long)

### **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**<sup>†</sup>, Wonjin Yoon<sup>†</sup>, 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<sup>†</sup>, **Jinhyuk Lee**<sup>†</sup>, Tom Kwiatkowski, Ankur Parikh, Ali Farhadi, Hannaneh Hajishirzi  
ACL 2019 (long)

### **ReSimNet : Drug Response Similarity Prediction based on Siamese Neural Network**

Minji Jeon<sup>†</sup>, Donghyeon Park<sup>†</sup>, **Jinhyuk Lee**, Hwisang Jeon, Miyoung 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<sup>†</sup>, Chan Ho So<sup>†</sup>, **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<sup>†</sup>, **Jinhyuk Lee**<sup>†</sup>, Donghee Choi, Jaehoon Choi, Jaewoo Kang  
CIKM 2018 (full)

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

Chunggyeom Kim<sup>†</sup>, **Jinhyuk Lee**<sup>†</sup>, 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)

<sup>†</sup>: equal contributions

## **HONORS & AWARDS**

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<b>Best Paper for the Natural Language Processing Section of the 2020 IMIA Yearbook</b> [ <a href="#">link</a> ]	2020
<b>Winner of the Seventh BioASQ Challenge (Task 7b, Phase B)</b> [ <a href="#">link</a> ]	Sep 2019
<b>Winner of Multi-Targeting Drug DREAM Challenge</b> [ <a href="#">link</a> ]	Nov 2018
<b>Korea University Best Honors Scholarships</b>	Mar 2014
<b>The Grand Prize, Start-up Competition, Korea University</b>	Jan 2014
<b>Venture Internship Program Scholarships, Korea University</b>	Dec 2013
<b>Software Technology and Enterprise Program Scholarships, Korea University</b>	Mar 2013 - Dec 2014

## SERVICES

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ACL/IJCNLP 2021, NAACL 2021, EMNLP 2020, ACL 2020, AKBC 2020, 2nd MRQA Workshop at EMNLP 2019  
Conference/Workshop Reviewer

PLOS ONE, IEEE Access, IEEE TCBB  
Journal Reviewer

## TALKS

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Google – NLP paper talk Feb 2021

Princeton NLP Group Feb 2021

APTOS 2020: Natural Language Processing (NLP) in Medicine Dec 2020

Korean AI Association 2020 Nov 2020

KJDB 2019 @ Tokyo Tech Oct 2019

## TEACHING

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CVH126 Introduction to Data Science, Korea University Fall 2019  
Lecturer

COSE214 Algorithms, Korea University Fall 2016  
Teaching Assistant

## REFERENCES

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Available on request.