

# Jinhyuk Lee

Ph.D. in Computer Science and Engineering  
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Korea University  
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<https://jhyuklee.github.io>

## EDUCATION

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

## PUBLICATIONS

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- 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)
- 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 (2019)
- ReSimNet : Drug Response Similarity Prediction based on Siamese Neural Network**  
Minji Jeon\*, Donghyeon Park\*, **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\*, 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**

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### **Korea University**

*Postdoctoral Researcher*

Sep 2019 - Present

Seoul, Korea

- Working on automatic knowledge base construction from question answering models
- Advising researches on question answering, neural machine translation, and biomedical text mining.
- 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 biomedical domain.

### **Konolabs, Inc.**

*Research Intern* (Mentor: Jaehoon Choi)

Mar - Aug 2016

Seoul, Korea

- Developed deep learning-based calendar scheduling system.

### **Tagme, Inc.**

*Startup CEO*

Aug 2014 - Feb 2016

Seoul, Korea

- Operated cloud storage service providing memorable file links.

### **Jiransoft, Inc.**

*Software Engineer Intern*

June - July 2014

Seoul, Korea

- Developed 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**

Developed a main model (ReSimNet) for drug representations.

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

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**2nd MRQA Workshop at EMNLP 2019, PLOS ONE, IEEE Access, IEEE TCBB**

Reviewer

**EMNLP 2019, ICDM 2019, VLDB 2018**

Secondary Reviewer

## 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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**Jaewoo Kang**

Professor, Department of Computer Science and Engineering, Korea University

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