

# JIHUN CHOI

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🏠 <https://jihunchoi.com>

## RESEARCH INTERESTS

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Natural language processing, Machine learning

## EDUCATION

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**Seoul National University**

*Sep 2014 – Feb 2020*

Ph.D. in Computer Science and Engineering

Supervised by Prof. Sang-goo Lee

Dissertation: *Sentence Pair Modeling with Deep Neural Network Sentence Encoders*

**Seoul National University**

*Mar 2011 – Aug 2014*

B.S. in Computer Science and Engineering, *summa cum laude*

GPA: 3.94 / 4.30 (overall), 4.08 / 4.30 (major)

## PUBLICATIONS

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Taeuk Kim, **Jihun Choi**, Daniel Edmiston, and Sang-goo Lee. Are Pre-trained Language Models Aware of Phrases? Simple but Strong Baselines for Grammar Induction. ICLR 2020.

**Jihun Choi**, Taeuk Kim, and Sang-goo Lee. Cell-aware Stacked LSTMs for Modeling Sentences. ACML 2019.

**Jihun Choi**, Taeuk Kim, and Sang-goo Lee. A Cross-Sentence Latent Variable Model for Semi-Supervised Text Sequence Matching. ACL 2019.

Sanghwan Bae, **Jihun Choi**, and Sang-goo Lee. SNU\_IDS at SemEval-2019 Task 3: Addressing Training-Test Class Distribution Mismatch in Conversational Classification. SemEval 2019.

Taeuk Kim, **Jihun Choi**, Daniel Edmiston, Sanghwan Bae, Sang-goo Lee. Dynamic Compositionality in Recursive Neural Networks with Structure-aware Tag Representations. AAAI 2019.

**Jihun Choi**, Taeuk Kim, Sang-goo Lee. Element-wise Bilinear Interaction for Sentence Matching. \*SEM 2018.

Taeuk Kim, **Jihun Choi**, Sang-goo Lee. SNU\_IDS at SemEval-2018 Task 12: Sentence Encoder with Contextualized Vectors for Argument Reasoning Comprehension. SemEval 2018.

**Jihun Choi**, Kang Min Yoo, Sang-goo Lee. Learning to Compose Task-Specific Tree Structures. AAAI 2018.

Jonghem Youn, **Jihun Choi**, Junho Shim, Sang-goo Lee. Partition-Based Clustering with Sliding Windows for Data Streams. DASFAA 2017.

**Jihun Choi**, Jonghem Youn, Sang-goo Lee. A Grapheme-level Approach for Constructing a Korean Morphological Analyzer without Linguistic Knowledge. Big Data and Natural Language Processing workshop hosted at IEEE Big Data 2016.

## AWARDS AND HONORS

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**Naver Ph.D. Fellowship**

*2019*

Naver Corporation

**Summa Cum Laude**

*Aug 2014*

Department of Computer Science and Engineering, Seoul National University

**National Scholarship for Science and Engineering**

*Mar 2013 – Jun 2014*

Korea Student Aid Foundation (KOSAF)

**Eminence Scholarship**  
Seoul National University

*Mar 2012 – Dec 2012*

**Scholarship for Superior Academic Performance**  
Seoul National University

*Sep 2011 – Dec 2011*

## ACADEMIC ACTIVITIES

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### Reviewer

IEEE TASLP (2019, 2020), AAAI (2020)

## RESEARCH EXPERIENCE

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### Spoken Language Understanding System for Automobiles

*2017 – 2019*

Led by Prof. Sang-goo Lee (PI)

- Algorithm for predicting the intent of a dialogue turn
- Machine reading comprehension on the SQuAD dataset

### Morphological Analysis of Korean Language

*2015 – 2016*

- Performance enhancement of the KKMA analyzer (<http://kkma.snu.ac.kr>)
- Grapheme-level Korean morphological analysis

### Analysis of Student Learning Data from Flipped Learning Environment

*2015 – 2016*

Led by Prof. Sang-goo Lee (PI)

- System for collecting data from student response devices
- System for managing activities in a flipped learning classroom

### Automatic Editing System for Online News Service

*2014 – 2015*

Led by Prof. Sang-goo Lee (Co-PI)

- Algorithm for predicting multi-granular category labels from a news article and its metadata

## TEACHING EXPERIENCE

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### TA, Digital Computer Concept and Practice

*Spring 2015, Spring 2017*

### TA, Database

*Fall 2015*

### TA, Advanced Database

*Spring 2016*

## TECHNICAL SKILLS

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### Languages

Python (bilingual level), SQL (advanced), C, C++, C#, Java (intermediate)

### Libraries

PyTorch, TensorFlow, Chainer, AllenNLP, NLTK, Flask

## MISCELLANEOUS

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### Technical Research Personnel (military service)

*Sep 2017 – Aug 2020*

Currently serving as technical research personnel at Seoul National University. Technical research personnel is a form of alternative military service in South Korea, where the military service is fulfilled by conducting research at a domestic university or company for three years.

## REFERENCE

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### Sang-goo Lee

Professor

Department of Computer Science and Engineering, Seoul National University

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