

# JIHUN CHOI

✉ jhchoi@europa.snu.ac.kr

🏠 <https://jihunchoi.com>

## RESEARCH INTERESTS

---

Natural language processing, Machine learning

## EDUCATION

---

**Seoul National University**

*Sep 2014 – Feb 2020 (expected)*

Ph.D. in Computer Science and Engineering

Supervised by Prof. Sang-goo Lee

**Seoul National University**

*Mar 2011 – Aug 2014*

B.S. in Computer Science and Engineering

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

## PUBLICATIONS

---

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

---

**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**

*Mar 2012 – Dec 2012*

Seoul National University

**Scholarship for Superior Academic Performance**

*Sep 2011 – Dec 2011*

Seoul National University

## ACADEMIC ACTIVITIES

---

### Reviewer

IEEE TASLP (2019), AAI (2020)

## RESEARCH EXPERIENCE

---

### Spoken Language Understanding System for Automobiles

2017 – 2020

Led by Prof. Sang-goo Lee (PI)

- Algorithm for predicting the intent of a dialogue turn
- Machine reading comprehension on the SQuAD dataset
- Out-of-domain detection for intention classification

### 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

---

### TA, Digital Computer Concept and Practice

Spring 2015, Spring 2017

### TA, Database

Fall 2015

### TA, Advanced Database

Spring 2016

## TECHNICAL SKILLS

---

### Languages

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

### Libraries

PyTorch, TensorFlow, Chainer, AllenNLP, NLTK, Flask

## MISCELLANEOUS

---

### 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

---

### Sang-goo Lee

Professor

Department of Computer Science and Engineering, Seoul National University

[sglee@snu.ac.kr](mailto:sglee@snu.ac.kr)

*Last updated on 2019-12-23.*