

# JIHUN CHOI

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🏠 <https://jihunchoi.com>

## RESEARCH INTERESTS

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- **Natural Language Processing**  
Text classification, Textual entailment, Dialogue modeling
- **Machine Learning**  
Deep neural networks, Generative models

## 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. AACL 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. AACL 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**  
Korea Student Aid Foundation (KOSAF)

*Mar 2013 – Jun 2014*

**Eminence Scholarship**  
Seoul National University

*Mar 2012 – Dec 2012*

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

*Sep 2011 – Dec 2011*

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## ACADEMIC ACTIVITIES

### Reviewer

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

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## WORK EXPERIENCE

**Institute of Computer Technology, Seoul National University**  
Researcher (expert research personnel)

*May 2020 – Sep 2020*

**Naver R&D Center**

Visiting researcher (dispatched from SNU ICT)

*May 2020 – Sep 2020*

**Bunjang Inc.**

Bunjang is one of the largest company providing a platform for second-hand trade. In Bunjang, I led a team for developing an algorithm for fraud detection from messages between users.

*Mar 2020 – Apr 2020*

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## RESEARCH EXPERIENCE

**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

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## TEACHING EXPERIENCE

**TA, Digital Computer Concept and Practice**

*Spring 2015, Spring 2017*

**TA, Database**

*Fall 2015*

**TA, Advanced Database**

*Spring 2016*

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## TECHNICAL SKILLS

### Languages

Python (fluent), SQL (advanced), C, C++, C#, Java (intermediate)

### Libraries

PyTorch, TensorFlow, Chainer, AllenNLP, NLTK, Flask

## MISCELLANEOUS

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**Expert Research Personnel** (military service)

*Sep 2017 – Aug 2020*

Currently serving as expert research personnel at Seoul National University. Expert 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. Throughout the service, I have not been involved in any military research project.

## REFERENCE

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**Sang-goo Lee**

Professor

Department of Computer Science and Engineering, Seoul National University

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