

JIHUN CHOI

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🏠 <https://jihunchoi.com>

RESEARCH INTERESTS

Natural language processing, Machine learning

EDUCATION

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

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

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

Reviewer

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

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

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

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