JIHUN CHOI

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RESEARCH INTERESTS

- **Natural Language Processing**
  Text classification, Textual entailment, Dialogue modeling

- **Machine Learning**
  Deep neural networks, Generative models

EDUCATION

Seoul National University   *Seoul, Korea*
Ph.D. in Computer Science and Engineering   *Sep 2014 – Feb 2020*
Supervised by Prof. Sang-goo Lee
Dissertation: *Sentence Pair Modeling with Deep Neural Network Sentence Encoders*

Seoul National University   *Seoul, Korea*
B.S. in Computer Science and Engineering   *Mar 2011 – Aug 2014*

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 Award   *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   *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 – 2020), AAAI (2020 – 2021)

WORK EXPERIENCE

Sony AI   *Tokyo, Japan*
Research Scientist   *Dec 2020 – now*

NAVER Clova AI   *Seongnam, Korea*
Visiting researcher   *May 2020 – Oct 2020*

Institute of Computer Technology, Seoul National University   *Seoul, Korea*
Researcher   *May 2020 – Aug 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

MISCELLANEOUS

Expert Research Personnel (military service)   *Sep 2017 – Aug 2020*
I served as expert research personnel at Seoul National University. The expert research personnel system 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. I had not been involved in any military research project throughout the service.

Last updated on 2020-12-12.