

Seungtaek Choi

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RESEARCH INTERESTS

- NLP for Conversational AI
- Faithfully Interpretable NLP Systems
- Counterfactual Data Augmentation

RESEARCH EXPERIENCE

Data Intelligence Laboratory, Yonsei University, Korea

Mar 2017 – Present

Research Assistant

- Supervisor: Prof. Seung-won Hwang
- Project 1: Video Question and Highlighting (supported by Samsung Research)
- Project 2: Explainable Human-level Deep Machine Learning Inference Framework

SK Telecom, Seoul, Korea

Aug 2019 – Oct 2019

AI Research Intern, T-Brain, AI Center

- Supervisor: Dr. Tae-Yoon Kim
- Project: Consistent Dialogue Generation

EDUCATION

Yonsei University, Seoul, Korea

Mar 2017 – Present

Ph.D. Candidate in Computer Science and Engineering

Yonsei University, Seoul, Korea

Mar 2012 – Feb 2017

B.S. in Computer Science and Engineering

PUBLICATIONS

- [1] **Label and Context Augmentation for Response Selection at DSTC8**
{Myeongho Jeong, **Seungtaek Choi**}*, Jinyoung Yeo, and Seung-won Hwang (* co-first authors)
IEEE-TASLP - IEEE/ACM Transactions on Audio Speech and Language Processing, 2021
- [2] **Label-Efficient Training for Next Response Selection**
{**Seungtaek Choi**, Myeongho Jeong}*, Jinyoung Yeo, and Seung-won Hwang (* co-first authors)
EMNLP - Empirical Methods in Natural Language Processing (workshop, SustaiNLP) - 2nd/3rd prize at DSTC8 (Track2 Sub-task1), 2020
- [3] **Retrieval-Augmented Controllable Review Generation**
Jihyeok Kim, **Seungtaek Choi**, Reinald Kim Amplayo, and Seung-won Hwang
COLING - International Conference on Computational Linguistics, 2020
- [4] **Less is More: Attention Supervision with Counterfactuals for Text Classification**
Seungtaek Choi, Haeju Park, Jinyoung Yeo, and Seung-won Hwang
EMNLP - Empirical Methods in Natural Language Processing, 2020
- [5] **Conditional Response Augmentation for Dialogue using Knowledge Distillation**
{Myeongho Jeong, **Seungtaek Choi**}*, Hojae Han, Kyungho Kim, and Seung-won Hwang (* co-first authors)
INTERSPEECH - Annual Conference of the International Speech Communication Association, 2020
- [6] **Meta-Supervision for Attention using Counterfactual Estimation**
Seungtaek Choi, Haeju Park, and Seung-won Hwang
DSEJ - Data Science and Engineering Journal, 2020
- [7] **Counterfactual Attention Supervision**
Seungtaek Choi, Haeju Park, and Seung-won Hwang
ICDM - International Conference on Data Mining, 2019

- [8] **MICRON: Multigranular Interaction for Contextualizing RepresentatiON in Non-factoid Question Answering**
 {Hojae Han, **Seungtaek Choi**}*, Haeju Park, and Seung-won Hwang (* co-first authors)
EMNLP - Empirical Methods in Natural Language Processing, 2019
- [9] **Visual Choice of Plausible Alternatives: An Evaluation of Image-based Commonsense Causal Reasoning**
 Jinyoung Yeo, {Gyungbok Lee, Gengyu Wang}*, **Seungtaek Choi**, Hyunsouk Cho, Reinald Kim Amplayo, and Seung-won Hwang (* co-first authors)
LREC - International Conference on Language Resources and Evaluation, 2018
- [10] **Machine-translated Knowledge Transfer for Commonsense Causal Reasoning**
 Jinyoung Yeo, Gengyu Wang, Hyunsouk Cho, **Seungtaek Choi**, and Seung-won Hwang
AAAI - AAAI Conference on Artificial Intelligence, 2018

**AWARDS &
SCHOLARSHIPS**

- SustaiNLP registration grant at EMNLP 2020
- Student Travel Grant at INTERSPEECH 2020
- Naver PhD Fellowship 2019
- ICDM 2019 Student Travel Award
- Google Travel Grant (ICDM 2019)
- 3rd Place of BIG 2017 CUP Challenge
 at BIG 2017 conference co-located with WWW 2017 (International Competition)
- Top Winner of BIG 2016 CUP Challenge
 at BIG 2016 conference co-located with WWW 2016 (International Competition)
- Computer Science Department Scholarship
 at Yonsei University 2017-2018

**TEACHING
EXPERIENCE**

- Artificial Intelligence @ Yonsei, 2017 Spring
- Teaching assistant

SKILLS

Programming Languages: Python
 Libraries: PyTorch, Keras, Tensorflow, NLTK