

# Jihyuk Kim

jihyukkim@yonsei.ac.kr

[Last updated: Feb 2022]

## RESEARCH INTERESTS

Natural Language Processing, Computational Linguistics

- Information Retrieval, Document/Passage Retrieval, Dense Retrieval
- Retrieval-Augmented Approaches
- Structures in Texts, Metadata for Text Understanding

## EDUCATION

**Yonsei University**, Seoul, Korea

Mar 2019 – Present

Ph.D. Student in Computer Science and Engineering

**Yonsei University**, Seoul, Korea

Mar 2012 – Feb 2019

B.S. in Computer Science and Engineering

## PUBLICATIONS

- [1] **Pseudo-Relevance for Enhancing Document Representation**  
**Jihyuk Kim**, Seung-won Hwang, Seoho Song, Hyeseon Ko and Young-In Song.  
*EMNLP - Empirical Methods in Natural Language Processing*, 2022
- [2] **Collective Self-Labeling for Passage Retrieval**  
**Jihyuk Kim**, Minsoo Kim, Seung-won Hwang.  
*NAACL (short) - North American Chapter of the Association for Computational Linguistics*, 2022
- [3] **Structure-Augmented Keyphrase Generation**  
**Jihyuk Kim**, Myeongho Jeong, Seungtaek Choi, Seung-won Hwang.  
*EMNLP - Conference on Empirical Methods in Natural Language Processing*, 2021
- [4] **Web Document Encoding for Structure-Aware Keyphrase Extraction**  
**Jihyuk Kim**, Young-In Song, Seung-won Hwang  
*SIGIR (short) - International ACM SIGIR Conference on Research and Development in Information Retrieval*, 2021
- [5] **Retrieval-Augmented Controllable Review Generation**  
**Jihyuk Kim**, Seungtaek Choi, Reinald Kim Amplayo, Seung-won Hwang  
*COLING - International Conference on Computational Linguistics*, 2020
- [6] **Categorical Metadata Representation for Customized Text Classification**  
**Jihyuk Kim\***, Reinald Kim Amplayo\*, Kyungjae Lee, Sua Sung, Minji Seo, Seung-won Hwang  
(\* equal contribution)  
*TACL - Transactions of the Association for Computational Linguistics*, 2019
- [7] **Cold-Start Aware User and Product Attention for Sentiment Classification**  
Reinald Kim Amplayo, **Jihyuk Kim**, Sua Sung, Seung-won Hwang  
*ACL - Annual Meeting of the Association for Computational Linguistics*, 2018

## RESEARCH EXPERIENCE

**Research Intern** at NAVER Search

Jul 2020- Aug 2020

- Supervisor: Dr. Young-In Song
- Project: Web Document Encoding for Structure-Aware Keyphrase Extraction (*published at SIGIR 2021*)

**Applied Scientist Intern** at Amazon, Alexa AI

Jun 2022- Sep 2022

- Manager: Dr. Sungjin Lee
- Mentor: Dr. Mohammad Kachuee
- Project: Leveraging complementary strength between parametric and non-parametric approaches

## AWARDS & SCHOLARSHIPS

- **Outstanding Reviewer** at ACL 2021
- **Computer Science Department Scholarship** at Yonsei University 2018-2021
- **Korean Government Scholarship Program (BK21+)** at 2019

## PROFESSIONAL SERVICES

ARR 2022 Jan/March/June/July Reviewer, ACL 2021 Reviewer, EMNLP 2021 Reviewer, SIGIR 2021 Student Volunteer

**SKILLS**

Programming Languages: Python, C, C++  
Libraries: PyTorch

**REFERENCES**

Seung-won Hwang, Ph. D.  
Professor, Department of Computer Science and Engineering, Seoul National University