

# Hyukkyu Kang

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 📷 Hyukkyu Kang

## Summary

I am a Ph.D. Student in the [Data Systems Lab](#) at [Pohang University of Science and Technology \(POSTECH\)](#). I am doing research under the supervision of Professor [Wook-Shin Han](#). My research interests are in the area of Natural Language Processing (NLP) and Information Retrieval (IR). I got my B.S. degree in Computer Science and Engineering from POSTECH.

## Education

<b>Pohang University of Science and Technology</b> <i>Ph.D. in Computer Science and Engineering (M.S./Ph.D. integration)</i>	Sep. 2019 – Present
<b>Pohang University of Science and Technology</b> <i>B.S. in Computer Science and Engineering</i>	Feb. 2015 – Aug. 2019

## Work Experience

<b>Research Intern</b> <i>Database Lab, POSTECH</i>	Dec. 2018 – Aug. 2019
<ul style="list-style-type: none"> <li>◦ Researched Natural Language Interface to Databases (NLIDB)</li> </ul>	
<b>Research Intern</b> <i>Center of Netmarble AI Revolution, Netmarble Company</i>	June 2018 – Aug. 2018
<ul style="list-style-type: none"> <li>◦ Developed AI player for a real-time strategy game using reinforcement learning</li> </ul>	

## Projects

<b>Development of a Conversational, Self-tuning DBMS</b>	Sep. 2019 - Feb. 2023
<ul style="list-style-type: none"> <li>◦ My goal was to develop a deep learning-based text-to-SQL semantic parsing model that can provide a natural language interface to database systems</li> </ul>	

## Activities

<b>Global Leadership Program (GLP)</b> <i>Computer Vision Lab, POSTECH</i>	Feb. 2017 - Dec. 2017
<ul style="list-style-type: none"> <li>◦ Researched real-time object detection &amp; tracking</li> </ul>	
<b>Postech Laboratory for Unix Security (PLUS)</b>	June 2015 – Dec. 2017
<ul style="list-style-type: none"> <li>◦ Studied linux system vulnerability and participated in various CTFs (e.g., DEFCON CTF 2017)</li> </ul>	

## Teaching Assistant

CSED 273 Digital System Design, POSTECH	Spring 2020
CSED 312 Operating System, POSTECH	Fall 2019

## Technologies

**Programming Languages:** C/C++, Python, Scala, Java, JavaScript  
**Libraries & Software:** PyTorch, TensorFlow, Databases, React  
**Communication language:** Korean, English, Chinese