

# Ganghui Yi

🏠 [hughyi.github.io](https://hughyi.github.io)

## RESEARCH INTERESTS

AI for Healthcare, Applied Machine Learning, Bioinformatics

## EDUCATION

<b>Sogang University</b> Bachelor of Science in Engineering, Computer Science and Engineering Bachelor of Science, Life Science (Double Major) Honors: <i>Magna Cum Laude</i> Major GPA: 3.87/4.3 (96.3/100), Cumulative GPA: 3.81/4.3 (95.8/100)	Mar 2017 - Feb 2024 Seoul, Korea
<b>Case Western Reserve University</b> Exchange Program	Aug 2022 - Feb 2023 Cleveland, Ohio

## RESEARCH EXPERIENCES

<b>Bioinformatics &amp; Machine Learning Lab</b> , Chungbuk National University <i>Research Intern</i> Advisor: Prof. Kyuri Jo Developing a MAML-based few-shot learning model using TCGA data to predict disease presence in non-cancer conditions, applying Differential Gene Expression (DGE) analysis for biomarker discovery.	Aug 2024 – Present Cheongju, Korea
<b>Research Project</b> , Sogang University <i>Undergraduate Researcher</i> Advisor: Prof. Jungmin So Developed an enhanced Federated Multi-Armed Bandit (FMAB) algorithm for cognitive radio, improving spectrum access, reducing regret, and lowering communication costs through client cooperation. [pdf][code]	Mar 2023 – Jun 2023 Seoul, Korea

## TECHNICAL EXPERIENCES

<b>Google for Developers Machine Learning Bootcamp</b> , Google Korea <i>Selected Participant</i> Engaging in a 14-week program combining deep learning theory (Andrew Ng's Deep Learning Specialization) with hands-on experience through Kaggle competitions and collaborative projects using Gemma open models.	Jun 2024 – Present Seoul, Korea
<b>Likelion Sogang</b> , Likelion <i>Front-end Developer</i> Developed responsive and scalable user interfaces using React, HTML/CSS, and JavaScript for URL repository service, enhancing user experience by implementing URL saving, sharing, and keyword search functionality through hashtags and titles, streamlining collaboration and information retrieval.	Mar 2021 – Dec 2021 Seoul, Korea
<b>27th Infantry Division</b> , Republic of Korea Army (ROKA) <i>Combat Medic Sergeant</i> Led a squad during training missions, attained Special Warrior recognition, and provided medical support by assisting doctors, administering treatments, managing medications, and dispensing prescribed medicines.	Jul 2019 – Jan 2021 Hwacheon, Korea

## TEACHING

<b>5110134 Artificial Intelligence</b> , Chungbuk National University <i>Teaching Assistant</i> (working with Prof. Kyuri Jo)	Fall 2024
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## LEADERSHIP & SERVICES

<b>Captain</b> , STROKE (Sogang Swimming Club)	Fall 2023
<b>Swimming Instructor</b> for Children with Autism, Mapo Art Center Swimming Pool	Fall 2023
<b>Member</b> , STROKE (Sogang Swimming Club)	Spring 2022 - Fall 2023
<b>English Tutor</b> , P&E English, Seoul	Feb 2021 - Feb 2023
<b>Squad Leader</b> , 27th Infantry Division, ROKA	Jul 2020 - Jan 2021
<b>Member</b> , HUG (Sogang International Volunteer Club)	Spring 2017 - Spring 2019

**Volunteer Korean Tutor** for Korean Chinese, Yantai, China

Spring 2015 - Fall 2015

## HONORS & AWARDS

<b>Outstanding Startup Idea Award</b> , Sogang University	Fall 2021
<b>1st Place</b> , Likelion Hackathon	Fall 2021
<b>1st Place</b> , Likelion Ideathon	Summer 2021

## SKILLS

**Programming Languages:** C/C++, Python, Java, HTML/CSS, MySQL  
**Frameworks/Packages:** PyTorch, TensorFlow, Keras, Pandas, NumPy, React  
**Tools:** Git/GitHub, Unix Shell, L<sup>A</sup>T<sub>E</sub>X  
**Languages:** Native in **Korean**, Advanced in **English**, Intermediate in **Chinese**, Basic in **Spanish**

## STANDARDIZED TEST SCORES

iBT TOEFL: 111 (Reading: 30/30, Listening: 29/30, Speaking: 28/30, Writing: 24/30)  
GRE General Test: Verbal (157/170, 73%), Quant (170/170, 92%), Analytical Writing (4.5/6.0, 83%)