

Ganghui Yi

🏠 hughyi.github.io

RESEARCH INTERESTS

AI for Healthcare, Applied Machine Learning, Bioinformatics

EDUCATION

Sogang University

Bachelor of Science in Life Science, Double Major in Computer Science and Engineering

Honors: *Magna Cum Laude*

Major GPA: 4.17/4.5, Cumulative GPA: 4.11/4.5

Mar 2017 - Feb 2024

Seoul, Korea

Case Western Reserve University

Exchange Program

Aug 2022 - Feb 2023

Cleveland, Ohio

EXPERIENCES

Bioinformatics & Machine Learning Lab, Chungbuk National University

Research Intern

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

Google for Developers Machine Learning Bootcamp, Google Korea

Selected Participant

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

Research Project, Sogang University

Undergraduate Researcher

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

Likelion Sogang, Likelion

Front-end Developer

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

27th Infantry Division, Republic of Korea Army (ROKA)

Combat Medic Sergeant

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

5110134 Artificial Intelligence, Chungbuk National University

Teaching Assistant (working with Prof. Kyuri Jo)

Fall 2024

LEADERSHIP & SERVICES

Captain, STROKE (Sogang Swimming Club)

Fall 2023

Swimming Instructor for Children with Autism, Mapo Art Center Swimming Pool

Fall 2023

Member, STROKE (Sogang Swimming Club)

Spring 2022 - Fall 2023

English Tutor, P&E English, Seoul

Feb 2021 - Feb 2023

Squad Leader, 27th Infantry Division, ROKA

Jul 2020 - Jan 2021

Member, HUG (Sogang International Volunteer Club)

Spring 2017 - Spring 2019

Volunteer Korean Tutor for Korean Chinese, Yantai, China

Spring 2015 - Fall 2015

HONORS & AWARDS

Outstanding Startup Idea Award, Sogang University
1st Place, Likelion Hackathon
1st Place, Likelion Ideathon

Fall 2021
Fall 2021
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, \LaTeX
Languages: Native in **Korean & English**, Intermediate in **Chinese**, Basic in **Spanish**

STANDARDIZED TEST SCORES

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