

Curriculum Vitae/Resume

HAGYEONG LEE

Ewha W.Univ. Computer Science & Engineering

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Education

- Mar 2018 - (Expected) Aug 2022 B.S. in Computer Science & Engineering | Ewha Womans University
- Mar 2015 – Feb 2018 Incheon Science High School

Research Experience

- Jan 2022 - (Expected) Feb 2022 Undergraduate Research Intern | POSTECH Electrical Engineering(포항공과대학교) (Advisor: Prof. Jaeho Lee)
- Sep 2021 - Dec 2021 Undergraduate Research Intern | KIST(한국과학기술원 차세대반도체연구소 스피닝융합연구단) (Advisor: Phd. SeokMin Hong)
- Sep 2020 - Feb 2021 Undergraduate Research Intern | Yonsei Severance Hospital
Center for Clinical Imaging Data Science(CCIDS) & Transitional AI Lab
(Advisor: Prof. HwiYoung Kim)
Development and validation of a visually explainable deep learning model for classification of C-shaped canals of the mandibular second molars in dental radiographs
- Jul 2020 - Aug 2020 Undergraduate Research Intern | Ewha Womans University
Computer Graphics Lab (Advisor: Prof. YoungJun Kim)
A Simulation-Based Convergence Content: AI Collaborated with Human - Robot Drawing Model








Publication

S.Yang(*), **H.Lee(*)**, B.Jang, K.Kim, J.Kim, H.kim, W.Park, "Development and validation of a visually explainable deep learning model for classification of C-shaped canals of the mandibular second molars in dental radiographs" in *Journal of Endodontics*, Jan.2022 (Under revision)


* These authors (Sujin Yang, Hagyeong Lee) contributed equally to this study.

Research & Project Experience

- Jan 2022 - (Expected) Feb 2022 Winter Undergraduate Research Fellowship | POSTECH
Advisor : Prof. Jaeho Lee
Subject : Implicit Neural Representations for Image Compression
(Organize in Notion :)
- Sep 2021 - Dec 2021 KIST Undergraduate Research Program | KIST
Advisor: Phd. SeokMin Hong
Subject : Machine learning that can predict Imbalanced tabular data and obtain important factors as a result
- Sep 2020 - Feb 2021 Undergraduate Research Intern | Yonsei Severance Hospital
Advisor: Prof. HwiYoung Kim
Subject : Deep learning model for classification in dental radiographs
(Abstract :)
- Jan 2021 - Dec 2021 Capstone Design Project (Graduation Project) | Ewha Womans University
Advisor : Prof. Uran Oh | Role : AI/Data Research & Application Developer (Flutter)
Subject: Korean food explanation and recommendation application using deep learning
(메뉴판 촬영을 통한 AI 한식 검색 어플리케이션, Google playStore : , Github:)

- Sep 2020 - Feb 2021 Challenge Semester Research Program | Ewha Womans University
With Human-Computer Interaction Lab (Advisor : Prof. Uran Oh)
Subject : Deep Learning based Signal Pattern Design of Abandoned Dog Sound 
- Jan 2020 - Jun 2020 Ewha Start-up Internship | ToonSquare Corp. 
Role : AI Model Research(NLP) & Frontend Developer
Text to Toon Emotion (using NLP to return emotions from text by classifying them into seven types labels, Demo:   
- Jan 2019 - Dec 2019 Ewha Start-up club ORDA | Ewha Womans University
Subject: AI-based custom coding education content curation platform "Code-ing"
Role : AI Model Research & Frontend Developer 
- Sep 2019 - Nov 2019 Ewha Social Start-up & Venture program | Ewha Womans University
Subject: Content & Communication Application offered to address Active Senior(Age 50+ generation) depression and role deprivation 
- Jul 2019 245th NAEK Forum | National Academy of Engineering of Korea(한국공학한림원)
Subject: Energy conversion policy, are we on track?
- Jul 2019 - Jul 2019 Global Start-up Technology Patent program | Yonsei University
Subject: AI based Start-up Technology Patent




Scholarships & Awards & Forum


- Fall 2018 - Present Full Scholarship | SFFL(Scholarship Foundation for Future Leaders)
For students who are expected to develop in the future as talent and have good grades and academic plans (1 student per University)
- Dec 2021 Ewha SW Graduation Project | (presentation 1st , Poster 3rd)
- Nov 2021 Ewha SW start-up Contest | Ewha SW Centered-Univ. | 3rd prize
- Nov 2021 2021 Korea Tourism Data Utilization Contest | Kakao Corp. , 한국관광공사 | 3rd prize
- Jan 2021 KU-LICS(Laboratory Start-up Competition) | Korea Research Foundation(한국연구재단), Korea University | 2nd Place
Competition to verify the marketization of laboratory start-up items and develop them into commercialization
- Fall 2020 Challenge Semester Scholarship | Ewha Womans University
For students who have demonstrated good and challenging research results.
- Fall 2019 SW Future Competency Development Scholarship | Ewha Womans University
For students who are expected to develop in the future and good at computer engineering activities.
- Winter 2019 Tutoring Scholarship | Ewha Womans University
Fall 2019 For responsible and sincere tutors who are highly rated by their tutees
Spring 2019
- Dec 2019 Woman in Engineering Undergraduate Leading Scholarship | Ewha Womans University
Dec 2018 For students who are active and accomplished to develop in the future as female engineering talents.
- Fall 2018 Ewha Alumni Scholarship | Ewha Womans University
For students who are expected to develop in the future as Ewha Womans Univ. Student..
- Nov 2019 Ewha Business Plan Festival | Ewha Womans University | 3rd Place
Competition in which commercialization is verified under the theme of creative start-up items (Slides : 

Teaching Experience

Winter 2019 Peer Instructor(Tutor) | Ewha Womans University
Fall 2019 Department of Computer Science & Engineering
Spring 2019 Physics/C programming/Problem Solving and Software Programming (Python)


Communication Experience

Aug 2019 - Aug 2021 Google Developer Student Club Ewha | Google Korea
Role : Group management staff / Lead
Women Tech Makers Hackathon Organizer
DevFest on Campus 2019 / 2020 Staff
GDSC Solution Challenge Hackathon Organizer
GDSC Pep Talk(Medical AI Session) with Prof. Jimin Lee (Unist) 
Planning and operating various development programs(DevFest, Hackathon, Pep talk) and events conducted by Google Korea.  

May 2019 5 월, 소프트웨어에 물들다: Library Software Lecture Project | Korea Code Club
May 2018 Committee
Advisor : Prof. Minseok Lee
Role : Lecturer
Using algorithms and pseudo-code to give lectures to lower elementary school students on what coding is, where and how it is used, and what computational thinking is. 

Mar 2018 - Dec 2019 Woman in Engineering Undergraduate Leading program | Ewha Womans University
Role : Engineering Education Volunteer Team Leader
Planning and conducting educational donation volunteer activities that apply various engineering concepts.
Activity : Pycon 2018 Volunteer, Summer Future Job Camp with Seoul National University(Engineering part), JA Korea program, Engineering Festival, etc


Major Course Projects

Fall 2021 Machine Learning from Scratch: Logistic Regression | Machine Learning
Practicing theoretically understanding the concept and implementing structure of Machine - Logistic Regression 
Language/Tool: Python

Fall 2020 Road Watcher OOD (Object-Oriented Design) | SW Engineering
Designed the component of ECU for autonomous cars with UML and simulation modeling.
Language/Tool: IBM Rational Rose, Simulink

Spring 2020 Calculating Page Fault & Disk read/write | Operating System
Implemented a simulation program that counts page fault and disk read/write numbers.
Language/Tool: C

Fall 2019 Laptop recommendation Web application | Open SW Platform
Designed and implemented a laptop recommendation page has CRUD function Language/Tool: JavaScript /Node.js, React.js

Spring 2019 Prototyping Barrier-Free road finding application | Software-based Convergence System Design
Designed a road-map application and gives barrier free information e.g. walkaway for wheelchair, baby carriage 

Skills

Programming

Python (Advanced) / C, Java (Intermediate) / JavaScript, Dart (Basic)

References

Prof. Jaeho Lee
Assistant Professor of Electrical Engineering | POSTECH
<https://jaeho-lee.github.io/>

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