Chaeyoung Lee

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Education

2019 – present
B.S., **Nursing** (Major)
Brain-Mind-Behavior / **Learning Sciences** (Interdisciplinary Major)
Big Data (Microdegree)
Seoul National University, Seoul, South Korea

Internships / Research Experiences

Jan 2025 – present
Undergraduate Research Intern
AI Medical Imaging Lab, Dept. of Electrical & Computer Engineering
Seoul National University, Seoul, South Korea

- **CEUS**(Contrast-enhanced Ultrasound) Team – Main
  - Conducted deep learning experiments (3D CNN and CNN-LSTM models) on CEUS data for hepatocellular carcinoma(HCC) vs. focal nodular hyperplasia(FNH) classification, analyzing the effects of different padding strategies
  - Performed result interpretation and statistical analysis for research paper in preparation
- **PNI**(Perineural Invasion) Team – Sub
  - Participated in a project on PNI prediction using MRI phase of cholangiocarcinoma(CCA); preprocessed and organized raw clinical data provided by Samsung Medical Center(SMC)
  - Designed figures for inclusion in the research paper in preparation

Sep 2024 – Dec 2024
Undergraduate Researcher
Developmental Cognitive Neuroscience Lab, Dept. of Brain & Cognitive Sciences
Seoul National University, Seoul, South Korea

- Leading a research project on the relationship between language development and episodic memory recall in children
- Transcribed free recall data, applied natural language processing(NLP) (e.g. TF-IDF, Word2Vec, SBERT), and analyzed cosine similarity metrics
- Interpreted results and wrote the whole paper
  ; received Best Poster Award at the SNU Undergraduate Research Conference (Research conducted as part of the Interdisciplinary Major in Brain-Mind-Behavior)

Experiences

Apr 2025 – present	**Project Developer**

Programming Foundations Course, Seoul National University, Seoul, South Korea
- SeNseU : A Self-Assessment Health Platform for University Students
  - Independently designed and developed a Python-based self-assessment program for university students' mental health, sleep quality, and alcohol use
  - Implemented validated screening tools (PHQ-9, PSQI-K, AUDIT-K) and created custom functions for score calculation, result interpretation, and personalized support suggestions
  - Building full program logic including flowcharts, modular functions, data structures, and user interaction
  - Aimed to improve awareness and self-monitoring among youth; potential for integration with campus health services

Jan 2025 – Feb 2025	**Editor**

Pacific Publishing Co., Academic Publishing Division, Seoul, South Korea
- Revised and updated full content of the Mental Health Nursing section of Korean National Nursing Licensing Examination(KNNLE) prep books

2017 – present	**Private Tutor**

- Provided individualized academic tutoring(Math, English, Science) to middle and high school students

Certifications

Mar 2025	**Registered Nurse (RN)**, Republic of Korea

Licensed by the Korea Health Personnel Licensing Examination Institute (KHPLEI)

Awards

Dec 2024	**Best Poster Award**

Seoul National University Undergraduate Research Conference
- Awarded for outstanding individual research on "Language Development and Event Boundaries in Children's Episodic Memory" conducted under the Bran-Mind-Behavior interdisciplinary major

Skills

Languages	Korean(Native), English(Intermediate Working Proficiency)
Programming	Python(Intermediate), MATLAB(Beginner)