Yoonhyeok Choi

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EDUCATION

Yonsei University   *Seoul, Republic of Korea*
Bachelor of Science Student in Computer Science   2022 – Ongoing (Junior)
- Relevant courses : Computer Programming, Object-Oriented Programming, Data Structures, Discrete Mathematics, Probability and Statistics, Linear Algebra, Signal Processing for AI, Software Engineering

PUBLICATIONS (*, † : Equal contributors)

1. Bo Kyu Choi*, **Yoonhyeok Choi***, Sooyoung Jang, Woo Seok Ha, Soomi Cho, Kimoon Jang, Beomseok Sohn, Kyung Min Kim†, Yu Rang Park†. "Multimodal Deep Learning Model for Prediction of Prognosis in Central Nervous System Inflammation", *Brain Communications*, 2025.

PRESENTATIONS

1. Bo Kyu Choi, Jaehyeok Jang, **Yoonhyeok Choi**, Kyung Min Kim, Yu Rang Park. "Deep learning model for the prognostic prediction of acute inflammation of the central nervous system using T2-weighted brain magnetic resonance imaging", *Pacific Symposium on Biocomputing*, 2025. (Poster Presentation)

2. Bo Kyu Choi, **Yoonhyeok Choi**, Yu Rang Park, Kyung Min Kim. "Development of an Artificial Intelligence Model for Diagnosis and Classification of Idiopathic Generalized Epilepsy using 3D Brain Magnetic Resonance Imaging", *Korean Epilepsy Congress*, 2024. (Poster Presentation)

EXPERIENCE

Gangnam Severance Hospital   *Seoul, Republic of Korea*
Department of Neurology, Yonsei University College of Medicine
Undergraduate Research Intern (*Advisors: Prof. Won Ju Kim, Prof. Bo Kyu Choi*)   2025/11/13 – Ongoing
- Developed a thorough understanding of the properties of EEG data and relevant analysis methods

Republic of Korea Army   *Republic of Korea*
Compulsory military service as per the regulations of the South Korean government
Imagery Intelligence (IMINT) Operator   2024/05/13 – 2025/11/12

Digital Healthcare Laboratory   *Seoul, Republic of Korea*
Department of Biomedical Systems Informatics, Yonsei University College of Medicine
Undergraduate Research Intern (*Advisor: Prof. Yu Rang Park*)   2023/11/01 – 2024/04/30
- Constructed and deployed public code repositories on Github for academic publications utilizing the Git workflow
- Processed and analyzed medical imaging (mainly T1W MRIs) and clinical data for research applications
- Acquired practical experience in operating linux-based external multi-GPU environments
- Gained hands-on experience in the academic paper writing process including writing, submission, review and revision

CERTIFICATIONS

The Medical Scientist Training Program (Undergraduate Course) (2024/08/24)   Yonsei University

PERSONAL INFORMATION

- **Skills :** Proficient in Python/PyTorch, Fluent in English, Decent at visualizations and making presentations.
- **Interests :** Generative models, Diffusion models, AI interpretability, Applications of reinforcement learning in vision and language tasks and Medical applications of AI.
- Passionate about teaching, especially the job of making complex concepts easier to understand for students using comprehensive visualizations and adequate metaphors.