Curriculum Vitae

Sua Bae

Contact

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Education

Sungkyunkwan University — ***Mar. 2021- Aug. 2025 (Expected)***

- B.S in Biomedical Engineering

  Cumulative GPA: 4.06/4.5
  (Major GPA: 4.06/4.5)

Research Experiences

Sensory-Motor Cognition and Computation Laboratory — ***Jun. 2022- Jun. 2023***

Undergraduate Researcher

- Participated in Undergraduate Research Program
  : Interdependence between Temporal and Directional Expectations in Sensory-Motor Behaviors
- Participated in research paper seminars — ***Aug. 2023-***

Relevant Courseworks

- Deep Learning with Python and Brain
- Circuit Theory for Biomedical Engineering
- BME Electromagnetism
- Artificial Neural Circuits
- Anatomy & Physiology
- Brain Science

Skills

- Programming Skills: Python, Matlab
- English (Fluent)
- Statistical Data Analysis (Intermediate)

Integrated Neuro-Prosthesis Laboratory — ***Aug. 2024***

Undergraduate Researcher

- Participated in Undergraduate Research Program
  : Mitigating Motion Sickness with Electrotactile Anticipatory Cues
- Participated in research paper seminars

Other Experiences

Student Council for Biomedical Engineering Department *(10th, 11th)* — ***Mar. 2021-Aug. 2023***

Member of the Welfare Department

- Organized department gathering events

AI Study Club (INIT) — ***Mar. 2021-Present***

Member

- Opensource: Basic Knowledge about the Linux Environment
- Data Analysis : Different Data Analysis Tools
- AI & Deep Learning: Sequential Data Processing

Projects

Patrol Car with Object Detection Features

- Team project for the course: Deep Learning with Python and Brain of 2023-Spring semester

- Circuit Analysis (Advanced Beginner)

Awards and Honors

- Academic Excellence Scholarship (4.25/4.5) *2*
- 2023 Engineering Festival *2*

  (President's Award of the Korea Women Venture Association)
- Sungkyunkwan Consortium Creative Comprehensive Design Competition

  (Silver Award)

- Implemented lane detection and car direction adjustment
- Implemented lower body detection system (Transfer Learning with YOLOv3 used)

RNN mimicking human behavior in competence task

- Team project for the course: Introduction to Computational Neuroscience of 2024-Fall semester *(In Progress)*
- Build RNN model that mimics human behavior in competence tasks & analyze