Shangyang Min

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EDUCATION

Brown University | Master of Science (Sc.M.) **09/2023 – Current**
- GPA: 3.95/4.0
- Pathway: Artificial Intelligence/Machine Learning

Michigan State University | BSc in Computer Science Engineering with high Honor **08/2019 – 05/2023**
- GPA:4.0/4.0
- Minor in Game Design and Development Program

SKILLS

- **Research Areas**: Deep Learning, Biomedical Engineering, Vision, Game Engines
- **Additional Interests & Proficiencies**: Multimodal, LLM, HCI

EXPERIENCE

Lee Lab | Graduate Researcher **09/2024 - Present**
- Conducting research on Brain-Computer Interface integration with gaming.
- Developed a real-time BCI data processing system using Unity, working on enable natural control of avatars through EEG and vision models.

Human Augmentation and Artificial Intelligence Laboratory | Undergraduate Researcher **05/2022 – 08/2023**
- Developed Feature Imitating Networks for biomedical imaging tasks.
- Led the project and mentored undergraduates in research.

Henry Ford Health System | Undergraduate Researcher **09/2022 – 09/2023**
- Collaborated on a funded research program between Henry Ford Health System and Michigan State University.
- Conducted machine learning analysis on tumor detection and radiomics features from DCE-MRI scans.

PROJECTS

Game Development Studio **09/2021 – 05.2023**
- Developed game mechanics and AI behaviors for various game projects
- Gained professional development experience under mentorship from Iron Galaxy Studio professionals.

ML/DL Research Projects
- Multiple recent or under review deep learning research projects across diverse domains including vision, LLM, etc. can be viewed in my project webpage.

PUBLICATIONS

- **S. Min**, H. B. Ebadian, T. Alhanai and M. M. Ghassemi, *Feature Imitating Networks Enhance the Performance, Reliability and Speed of Deep Learning on Biomedical Image Processing Tasks*, *2024 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*, Orlando, FL, USA, 2024, pp. 1-5, doi: 10.1109/EMBC53108.2024.10782373.