



Favour Nerrise

Ph.D. Student in Electrical Engineering, admitted Summer 2021

Bio

HONORS AND AWARDS

- Stanford Graduate Fellowship, Stanford University (2021)
- NeuroTech Training Program Fellowship, Stanford University (2021)
- EDGE Fellowship, Stanford University (2021)
- Gilman Scholar, Benjamin A. Gilman International Scholarship (2018)
- Scholar, Forbes 30 Under 30 Scholars (2017)
- UNCF Scholar, Gates Millenium Fellowship (2016)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- National Chairperson, National Society of Black Engineers (2021 - present)
- Region II Chairperson, National Society of Black Engineers (2020 - 2021)
- Region II Treasurer & Finance Chairperson, National Society of Black Engineers (2019 - 2020)
- Vice President, Toastmaster's UMD (2019 - 2020)
- Chapter President (UMD), National Society of Black Engineers (2018 - 2019)
- Director of Shared Governance, Student Government Association (2017 - 2018)
- Undergraduate Student Affairs Representative, University of Maryland-College Park Senate (2018 - 2020)
- Women in Engineering Student Advisory Board, University of Maryland, College Park (2019 - 2021)
- Member, Black in AI (2020 - present)
- Student Member, IEEE (2017 - present)
- Student Member, ACM (2017 - present)
- Student Member, American Geophysical Union (AGU) (2020 - present)

EDUCATION AND CERTIFICATIONS

- B.S., University of Maryland, College Park , Computer and Information Sciences (2021)

Publications

PUBLICATIONS

- **A framework of digital biomarkers for neurodegenerative diseases** *NATURE REVIEWS BIOENGINEERING*
Nerrise, F., Schutz, N., Zhao, Q., Gould, C., Milstein, A., Schulman, K., Henderson, V. W., Landay, J., Fei-Fei, L., Lin, F., Adeli, E.
2026

- **GAMMA-PD: Graph-based Analysis of Multi-Modal Motor Impairment Assessments in Parkinson's Disease.** *Graphs in biomedical image analysis : 6th International Workshop, GRAIL 2024, held in conjunction with MICCAI 2024, Marrakesh, Morocco, October 6, 2024, Proceeding. GRAIL (Workshop) (6th : 2024 : Marrakesh, Morocco)*
Nerrise, F., Heiman, A. L., Adeli, E.
2025; 15182: 57-68
- **GraFS: An Integrated GNN-LLM Approach for Inferring Best Functional Substitute Products**
Nerrise, F., Huang, E. W., Ji, X., Subbian, K., Koutra, D., ACM
ASSOC COMPUTING MACHINERY.2025: 5047-5051
- **Data-Driven Discovery of Movement-Linked Heterogeneity in Neurodegenerative Diseases.** *Nature machine intelligence*
Endo, M., Nerrise, F., Zhao, Q., Sullivan, E. V., Fei-Fei, L., Henderson, V. W., Pohl, K. M., Poston, K. L., Adeli, E.
2024; 6 (9): 1034-1045
- **Data-driven discovery of movement-linked heterogeneity in neurodegenerative diseases** *NATURE MACHINE INTELLIGENCE*
Endo, M., Nerrise, F., Zhao, Q., Sullivan, E. V., Fei-Fei, L., Henderson, V. W., Pohl, K. M., Poston, K. L., Adeli, E.
2024
- **An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Nerrise, F., Zhao, Q., Poston, K. L., Pohl, K. M., Adeli, E.
2023; 14221: 723-733
- **An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment.** *ArXiv*
Nerrise, F., Zhao, Q., Poston, K. L., Pohl, K. M., Adeli, E.
2023
- **User-Driven Support for Visualization Prototyping in D3**
Bako, H. K., Varma, A., Faboro, A., Haider, M., Nerrise, F., Kenah, B., Dickerson, J. P., Battle, L., ACM
ASSOC COMPUTING MACHINERY.2023: 958-972
- **Predictive Agent-Based Modeling of Natural Disasters Using Machine Learning**
Nerrise, F., Assoc Advancement Artificial Intelligence
ASSOC ADVANCEMENT ARTIFICIAL INTELLIGENCE.2021: 15976-15977