

EDUCATION

- **Computer Science**, Boston University (Ph.D. **anticipated graduation dates: 12/2023**. M.S conferred in 2019.)
- Master of Science, **Biophysics**, University of Wisconsin-Madison
- Bachelor of Science, **Biological Sciences**, Fudan University, Shanghai, China

CODING LANGUAGE

- Proficient in Python, JavaScript. Familiar with MySQL, MongoDB, C#, NodeJS, MatLab.

TEACHING EXPERIENCE

- CS 640: Artificial Intelligence, Fall 2020, 2021
- Research in Science & Engineering Program (RISE), Summer 2020
- CS 111: Introduction to Computer Science, Spring 2020

WORKING EXPERIENCE

- Software Engineer Intern, SAIL, Hariri Institute for Computing, BU Feb – Aug, 2019
 - Developed a web application for our collaborator from the Dept. Archaeology to visualize cult and landscape information in ancient Greece
 - Contributed to a python library which performs natural language processing to quantitatively assess historical differences in literary works for our collaborator from the Dept. Political Science
 - Improved data visualization and explored alternatives the for American Sign Language project
- Backend Developer Intern, MIDA. Inc Jun – Aug, 2018
 - Created database using PostgreSQL

AWARD

- NSF Doctoral Consortium Travel Award
- Invited participant for the Grad Cohort Workshop of the CRA-W

OTHER RESEARCH EXPERIENCE

- Bioinformatics Specialist, Ge Laboratory, Human Proteomics Program, School of Medicine and Public Health, UW-Madison
- Research Assistant, Chapman Laboratory, UW-Madison

PUBLICATIONS

- M Patel*, Y Gu*, L Carstensen, M Hasselmo, M Betke. Animal Pose Tracking: 3D Multimodal Dataset and Token-based Pose Optimization. *International Journal of Computer Vision*, 1-17. (IJCV 2022).
*: **Co-first author**
- Z Zhang, Y Gu, B Plummer, X Miao, J Liu, H Wang. Effectively leveraging Multi-modal Features for Movie Genre Classification. *arXiv:2203.13281*. (2022)
- Z Zhang, Y Gu, B Plummer. Show and Write: Entity-aware News Generation with Image Information. *arXiv:2112.05917*. (2021)
- Y Gu, M Bahrani, A Billot, S Lai, EJ Braun, M Varkanitsa, J Bighetto, B Rapp, TB Parrish, D Caplan, CK Thompson, S Kiran, M Betke. A machine learning approach for predicting post-stroke aphasia recovery: a pilot study. *Proceedings of the 13th ACM International Conference on Pervasive Technologies Related to Assistive Environments*. (2020).
- S McIlwain, Z Wu, Y Gu, S Ramanathan, X Liu, R Sun, I Ong, Y Ge. MASH Explorer: A Universal Software Environment for Top-Down Proteomics, *Journal of Proteome Research*. (2020).
- Y Gu, S Pandit, E Saraee, T Nordahl, T Ellis, M Betke. Home-Based Physical Therapy with an Interactive Computer Vision System. *Proceedings of the IEEE International Conference on Computer Vision Workshops*. (2019).
- E Saraee, Y Gu, S Pandit, S Tran, E Shandelman, S Singh, TJ Nordahl, T Ellis, M Betke. ExerciseCheck: data analytics for a remote monitoring and evaluation platform for home-based physical therapy. *Proceedings of the 12th ACM International Conference on Pervasive Technologies Related to Assistive Environments*. (2019).
- S Pandit, S Tran, Y Gu, E Saraee, F Jansen, S Singh, S Cao, A Sadeghi, E Shandelman, T Ellis, M Betke. ExerciseCheck: A scalable platform for remote physical therapy deployed as a hybrid desktop and web application. *Proceedings of the 12th ACM International Conference on Pervasive Technologies Related to Assistive Environments*. (2019).