

Gu, Yiwen

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EDUCATION

Computer Science, Boston University (current, PhD program. M.S conferred in 2019)

Master of Science, **Biophysics**, University of Wisconsin-Madison

Bachelor of Science, **Biological Sciences**, Fudan University, Shanghai, China

COMPUTATIONAL SKILLS

Programming Language: Proficient in Python, Java, C#. Familiar with C/ C++, Matlab, R programming.

Database: Proficient in MySQL and MongoDB. Familiar with PostgreSQL, Hadoop

App Development: Proficient in NodeJS, Familiar with Android Studio

TEACHING EXPERIENCE

- CS 640: Artificial Intelligence, Fall 2020
- 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

- **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 (PETRA 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 (PETRA 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 (PETRA 2019).*

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- S McIlwain, Z Wu Z, **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
 - L Yang, ZR Gregorich, W Cai, L Ye, T Nickel, C Johnson, C Henke, **Y Gu**, Y Ge, J Zhang. Quantitative Proteomics and Immunohistochemistry Reveal Insights into Cellular and Molecular Processes in the Infarct Border Zone One Month after Myocardial Infarction. *Journal of Proteomics*, 2017