

Han Yu

Email: hy29@rice.edu | [linkedin.com/in/han-yu-527840109/](https://www.linkedin.com/in/han-yu-527840109/)
Web: hanyu1994.com | Publications: [Google Scholar - jcyVhlwAAAAJ](#)

SUMMARY

Passionate researcher with years of experience in deep learning and human health. Gain solid problem-solving skills from graduate school. Have experience working on large-scale and industry-level sequential data and models as an intern at Apple.

EDUCATION

- Rice University** Houston, TX
PhD in Electrical and Computer Engineering (Major: Data Science) Expected: Aug. 2019 – May. 2024
Supervisor: Akane Sano
- Rice University** Houston, TX
Master of Electrical Engineering (Major: Data Science) *Aug. 2017 – Dec. 2018*
- University of Electronic Science and Technology of China** Chengdu, China
Bachelor of Electrical Engineering *Aug. 2013 – June. 2017*

RELEVANT EXPERIENCE

- Apple Inc.** May. 2021 – Aug. 2021
PhD Intern, AI/ML (Biomedical Algorithm) in Health Technology *Cupertino, CA*
- Processed time-series wearable data and worked on the explainability of deep neural network for health application
 - Improved the existing model performances significantly by explicitly pruning network nodes with ill-learned representations.
- Computational Wellbeing Group, Rice University** May. 2018 – Present
Research Assistant *Houston, TX*
- Design **self-supervised learning** algorithm for extracting robust time-series learning representations in **time-series** data. The proposed method outperforms the existing state-of-the-art method with significantly lower computational cost.
 - Design deep **semi-supervised learning** framework and leverage actively sampled unlabeled sensor data collected in the wild to estimate **human emotional status**. The designed method can improve the performance of stress detection by over 10% from the traditional method.
 - Extract features from **multi-modal human-centered data** to construct deep learning model for emotion prediction and mental health applications.
 - Deploy real-world emotion prediction back-end system and provide daily well-being feedback to participants.

RELEVANT SKILLS

Programming Languages: Python, Java, C#, Swift, Dart
Deep Learning Skills: Time-Series Learning, Self-supervised Learning, Multi-Modal Learning
Deep Learning Libraries: Pytorch, Tensorflow, Keras
Developer Tools: Linux, AWS, Git, SSH, Docker