Yunting (Heather) Yin

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EDUCATION

Stony Brook University, Stony Brook, NY   Aug 2019 - Present (Expected May 2024)
Ph.D. Candidate in Computer Science   GPA: 3.8/4.0
Advisor: Steven Skiena
Research Areas: Speech Processing, Natural Language Processing, Machine Learning
Recipient of Chairman′s Fellowship and Inclusive Computing Fellowship

Pace University, New York, NY   Sept 2016 - May 2019
B.S. in Computer Science   Rank: 1, GPA: 3.98/4.0
Graduated with Scholastic Achievement Award and Summa Cum Laude Honors
Recipient of Honors College Scholarship and Honors Opportunity Scholarship

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, SQL, R, PHP, JavaScript
Tools & Software: Jupyter, PyCharm, Eclipse, Git, Kaldi, Visual Studio, LaTeX
Libraries: NumPy, Scikit-learn, NLTK, PyTorch, TensorFlow, Hadoop, React, D3.js

EXPERIENCE

Research Assistant, Stony Brook University   Jan 2021 - Present
- Working on machine learning methods for audio/video processing

Teaching Assistant, Stony Brook University   Aug 2019 - Aug 2021
- TA for the following courses: Data Science, Principles of Programming Languages, Foundations of Computer Science, Computer Networks

Math Tutor, Pace University Learning Center   Sep 2018 - May 2019
- Explain theories of statistics and calculus to students

Web Developer Intern, Overseas Students Services Corp   Oct 2017 - May 2018
- Code web applications and create client-friendly web interfaces

PROJECTS

Speech Analysis on Aging and Age-related Diseases
An ongoing research project that aims to identify biomarkers of aging and symptoms of cognitive diseases from acoustic features in video interviews.

Age Prediction on VoxCeleb Datasets
Transformed VoxCeleb into a longitudinal dataset with speaker age information and performed age prediction tasks.

How much do people sleep?
Analyzed large-scale Twitter data to get insight into factors affecting how much sleep different populations receive, and how sleeping schedule affects mental health.

Seatizen App
Developed during MTA hackathon to predict occupancy patterns using historical data and calculate real time passenger count using camera feeds and object identification.

PUBLICATIONS

Yunting Yin, Douglas William Hanes, Sean A P Clouston, and Steven Skiena. "Speech Analyses of Health Conditions based on Non-verbal Vocal Cues of US Military Veterans", to be submitted to Lancet Healthy Longevity.

Charuta Pethe, **Yunting Yin**, and Steven Skiena. "Prosody Prediction for Audiobook Generation", submitted to EMNLP 2022.

Nanjie Deng, Junchao Xia, Lauren Wickstrom, Clement Lin, Kaibo Wang, Peng He, **Yunting Yin**, and Danzhou Yang. "Ligand Selectivity in the Recognition of Protoberberine Alkaloids by Hybrid-2 Human Telomeric G-Quadruplex: Binding Free Energy Calculation, Fluorescence Binding, and NMR Experiments", in Molecules 2019, 24(8), 1574.