Yunting (Heather) Yin

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Github : https://github.com/Yinsight https://yinsight.github.io

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, Large Language Models
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 various machine learning research projects including vocal aging analysis and forecasting with large language models.

Teaching Assistant, Stony Brook University Aug 2019 - Jan 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

Feasibility of Reducing Prescription Drug Cost Through Generic Alternatives
Capstone project for Correlation One Data Science for All (DS4A) / Women program, which explores market dynamics of generic vs brand-name prescription drugs.

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, Steven Skiena, and Sean A P Clouston. "Quantifying Healthy Aging in Older Veterans using Computational Audio Analysis", in the Journals of Gerontology: Series A, 2023.

Yunting Yin, and Steven Skiena. "Word Definitions from Large Language Models", submitted to EMNLP 2023.

Charuta Pethe, **Yunting Yin**, and Steven Skiena. "Prosody Prediction for Audiobook Generation", submitted to EMNLP 2023.

Yunting Yin, and Steven Skiena. "Inferring Age from Linguistic and Verbal Cues in Celebrity Interviews", 2023 International Conference on Frontiers of Artificial Intelligence and Machine Learning.

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.