

Yunting (Heather) Yin

LinkedIn : <https://www.linkedin.com/in/heather-yin-960812143>
Github : <https://github.com/Yinsight>

yunyin@cs.stonybrook.edu
<https://yinsight.github.io>

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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, L ^A T _E X 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", FAIML 2023. |
| | 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. |