Yunting (Heather) Yin

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EDUCATION

Stony Brook University, Stony Brook, NY Aug 2019 - Present
Ph.D. Candidate in Computer Science GPA: 3.8/4.0
Research Areas: Speech Processing, Natural Language Processing, Machine Learning
Recipient of Chairman's 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: CSE 307, CSE 351, CSE 215, CSE 519, CSE 310

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 integrate into WordPress CMS
- Work in team to create client-friendly web interfaces using CSS and JavaScript

PROJECTS

Speech Analysis on Aging and Age-related Diseases
Skills: Python, C++, Audio & Speech Processing
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
Skills: Python, Audio & Speech Processing
Transformed VoxCeleb into a longitudinal dataset with speaker age information and performed age prediction tasks.

How much do people sleep?
Skills: Python, Sentiment Analysis
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
Skills: C#, Python
Developed during MTA hackathon to predict occupancy patterns using historical data and calculate real time passenger count using camera feeds and object identification.

PUBLICATION

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.