Yunting (Heather) Yin

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EDUCATION

Stony Brook University, Stony Brook, NY Aug 2019 - Present
Ph.D. in Computer Science GPA: 3.86/4.0
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, Visual Studio, Matlab, LaTeX
Libraries: NumPy, Scikit-learn, NLTK, PyTorch, TensorFlow, Hadoop, React, d3.js

EXPERIENCE

Teaching Assistant, Stony Brook University Aug 2019 - Present
Teaching assistant for the following courses:
- CSE 307 Principles of Programming Languages (Fall 2019 & Spring 2020)
- CSE 351 Introduction to Data Science (Summer 1 2020)
- CSE 215 Foundations of Computer Science (Summer 2 2020)
- CSE 519 Data Science Fundamentals (Fall 2020)

Math Tutor, Pace University Learning Center Sep 2018 - May 2019
- Help students understand Statistics and Calculus

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

AI and Aging
Skills: Python
Analyzed phenotypes from video interviews as biomarkers of aging. This project breaks down videos into time series quantifications of phenotypic variables that provide measurements of physical or mental health of the person in them. Information is gathered from three channels: video, audio, and text.

How much do people sleep?
Skills: Python
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. [**Contribution: Python Scripts for Computation**]