Yunting (Heather) Yin

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EDUCATION

Stony Brook University, Stony Brook, NY Aug 2019 - Present
Ph.D. in Computer Science GPA: 3.80/4.0
Research Interests: Natural Language Processing, Machine Learning
Recipient of Chairman's Fellowship

Pace University, New York, NY Sept 2016 - May 2019
B.S. in Computer Science 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++, Matlab, R, SQL, JavaScript
Tools & Software: Jupyter, PyCharm, Eclipse, Git, Visual Studio, Matlab, LaTeX
Libraries: NumPy, Scikit-learn, NLTK, PyTorch, Keras, TensorFlow, Hadoop, d3.js

EXPERIENCE

Teaching Assistant, Stony Brook University Aug 2019 - Present
- CSE 307 Principles of Programming Languages (Fall 2019 & Spring 2020)

Math Tutor, Pace University Learning Center Sep 2018 - May 2019
- Provide tutoring for Statistics and Calculus

Lab Support Volunteer, TEALSK12 Jun 2018 - Jun 2019
- Teach lab section of Introduction to CS class at South Bronx Preparatory

Web Developer Intern, Overseas Students Services Corp Oct 2017 - May 2018
- Update online applications
- Work in team to create client-friendly web applications

PROJECTS

How much do people sleep?
Skills: Python, Beautiful Soup, **Numpy**, **Scikit-learn**
Analyzed large-scale Twitter data to get insight into factors affecting how much sleep different populations receive, and how sleeping schedule affects mental health.

Seq2Seq ChatBot
Skills: Python, **TensorFlow**, **TensorBoard**
Created a neural network-based chatbot model from a dataset of movie conversations.

Automated Stock Trader
Skills: Python, OpenAI Gym, **Scikit-learn**
Implemented a deep reinforcement learning program to automatically buy and sell stocks in a simulated stock market environment.

IEEE-CIS Fraud Detection
Skills: Python, **PyTorch**
Predicted fraud transactions for a large e-commerce dataset with sparse tensors.

PUBLICATIONS

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 Data Analysis**]