Jonathan Zheng

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EDUCATION

Georgia Institute of Technology　　　　　　　　　　　　　　　　　　　　　　Atlanta, GA
Ph.D. in Machine Learning　　　　　　　　　　　　　　　　　　*Aug. 2023 – May 2028 (Expected)*
Advisors: Prof. Wei Xu and Prof. Alan Ritter
GPA: 4.0 / 4.0

Georgia Institute of Technology　　　　　　　　　　　　　　　　　　　　　　Atlanta, GA
Bachelor of Science in Computer Science　　　　　　　　　　　　　　　*Aug. 2019 – May 2023*
Specification: Intelligence-Theory
GPA: 4.0 / 4.0
GRE: 163 / 170 V, 169 / 170 Q, 5.5/6.0 W

PUBLICATIONS

[1] NEO-BENCH: Evaluating Robustness of Large Language Models with Neologisms
Jonathan Zheng, Alan Ritter, Wei Xu
- ACL 2024 (long paper)
- Links: [paper]

[2] Stanceosaurus 2.0: Classifying Stance Towards Russian and Spanish Misinformation
Anton Lavrouk, Ian Ligon, Tarek Naous, **Jonathan Zheng**, Alan Ritter, Wei Xu
- Proceedings of the Ninth Workshop on Noisy and User-generated Text (W-NUT 2024) (short paper)
- Links: [paper]

[3] Broad-coverage Multi-culture Stance Classification
Jonathan Zheng, Ashutosh Baheti, Tarek Naous, Wei Xu, Alan Ritter
- Proceedings of EMNLP 2022 (long paper)
- Links: [paper]

The papers can be found on my webpage.

TEACHING

Introduction to Artificial Intelligence (CS 3600)　　　　　　　August 2021 – December 2021
Teaching Assistant　　　　　　　　　　　　　　　　　　　　Georgia Institute of Technology
- Helped to teach the largest introductory AI course of over 300 students by managing the Piazza forum
- Held bi-weekly office hours to assist students in course concerns, course logistics, and course concepts
- Organized bi-monthly review sessions to go over course concepts for every project and exam
- Worked under Professor Mark Riedl

EXPERIENCE

Software Engineering Intern　　　　　　　　　　　　　　　　　May 2021 – August 2021
XPO Logistics　　　　　　　　　　　　　　　　　　　　　　　　　　　*Marietta, GA*
- Built an LSTM and RNN deep neural network to forecast work orders for individual market hubs and companies
- Built data pipelines to validate data forecasts and upload them to BigQuery for data visualization
- Conducted ablation studies and feature engineering to improve forecast performance of deep learning models

Exchange Student　　　　　　　　　　　　　　　　　　　　　　　Sydney, Australia
Bachelor of Science in Computer Science　　　　　　　　　　　　　　　*Aug. 2022 – Dec. 2022*
Concentration: Artificial Intelligence
- Cultural Experience by doing an exchange program to the University of New South Wales in Sydney, Australia

Projects

Financial Sentiment Analysis | *Python, Jupyter Notebook, TensorFlow, scikit-learn*   May 2020 – Aug. 2020
- Trained Natural Language Processing machine learning models to conduct <u>financial sentiment analysis</u> on the Financial PhraseBank dataset
- Built Logistic Regression, Convolutional, and Recurrent Neural Network models based on previous research

Awards

Academic: President's Undergraduate Research Award 2022

References

Professor Wei Xu   *Georgia Institute of Technology*
- wei.xu@cc.gatech.edu

Professor Alan Ritter   *Georgia Institute of Technology*
- alan.ritter@cc.gatech.edu

Professor Mark Riedl   *Georgia Institute of Technology*
- riedl@cc.gatech.edu