

# Jonathan Zheng

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## EDUCATION

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### 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

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### [1] Probabilistic Reasoning with LLMs for k-anonymity Estimation

Jonathan Zheng, Alan Ritter, Wei Xu

- Under Review at NeurIPS [Scores: 5 (Accept), 5 (Accept), 4 (Borderline Accept), 4 (Borderline Accept)]
- Links: [\[paper\]](#)

### [2] NEO-BENCH: Evaluating Robustness of Large Language Models with Neologisms

Jonathan Zheng, Alan Ritter, Wei Xu

- ACL 2024 (long paper)
- Links: [\[paper\]](#)

### [3] 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: [\[paper\]](#)

### [4] 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

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### Natural Language Processing (CS 4650)

January 2025 – May 2025

*Graduate Teaching Assistant*

Georgia Institute of Technology

- Held Office hours to assist students in course concerns, homeworks, and course concepts
- Held a lecture about Recurrent Neural Networks and Gated Recurrent Networks
- Helped construct theoretical and application-based questions about for the Midterm Exam

### Introduction to Artificial Intelligence (CS 3600)

August 2021 – December 2021

*Undergraduate 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

## EXPERIENCE

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### 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

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### Financial Sentiment Analysis | *Python, Jupyter Notebook, TensorFlow, scikit-learn*

May 2020 – Aug. 2020

- Trained Natural Language Processing machine learning models to conduct financial sentiment analysis on the Financial PhraseBank dataset
- Built Logistic Regression, Convolutional, and Recurrent Neural Network models based on previous research

## AWARDS

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**Academic:** President's Undergraduate Research Award 2022

## REFERENCES

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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

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