Ian Yang

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https://scholar.google.com/citations?user=7A4ZCDoAAAAJ&hl=en

Education

Georgia Institute of Technology, Atlanta, GA
Bachelors of Science in Computer Science, Minor in Mathematics (Expected May 2024)
Major/Cumulative GPA: 4.00/3.92

Relevant Completed Coursework: Natural Language Processing, Machine Learning, Artificial Intelligence, Advanced Algorithms, Automata and Complexity Theory

Pre-Prints

Robust Preference Learning for Storytelling via Contrastive Reinforcement Learning
Louis Castricato, Alex Havrilla, Shahbuland Matiana, Michael Pieler, Anbang Ye, **Ian Yang**, Spencer Frazier, Mark Riedl; *Under Review*. Full Paper: https://arxiv.org/abs/2210.07792

Work & Research Experience

Undergraduate Research Assistant | Carnegie Mellon University (May 2023 – Present)

Visiting researcher as part of the REUSE (Research Experience for Undergraduates in Software Engineering) program at CMU advised by Prof. Norman Sadeh.

Exploring applications of NLP with respect to privacy policies and regulations.

Undergraduate Research Assistant | Georgia Tech (Jan 2022 – Present)

Research assistant in the Entertainment Intelligence Lab advised by Prof. Mark Riedl and mentored by PhD candidate Spencer Frazier. Have worked on a variety of projects, including:

- Extension of the Moral Stories Dataset with human authoring of datapoints given world states.
- Human evaluations via Qualtrics for storytelling with fine-tuned language model preference learning.
- Relational triple generation using large language models for knowledge graph creation, used for character action evaluation. Emphasis on GPT-3.
- Generation of TextWorlds for navigation of reinforcement learning agents. Research funded by Amazon.

Currently writing undergraduate thesis titled *Relationship Extraction via Language Models for Normativity Analysis*.

Software Development Intern | FlightBridge, Inc. (Aug 2021 – May 2022)

FlightBridge is the technology platform connecting Private Aviation with their trusted network of trip service vendors and partners. One-stop online to book and manage FBO and handling requests, hotel reservations, rental car bookings with FBO delivery, catering, fuel, ground transportation, aircraft detailing, security, and much more.

Software engineering intern, crafting full-stack solutions to bugs and developed novel features. Key technologies used were ASP.NET, C#, SQL, Microsoft Azure, and Subversion.

Undergraduate Research Assistant | The Ohio State University (Apr 2021 – May 2022)

Research assistant at The Ohio State University advised by Prof. Dong Xuan and mentored by PhD candidate Yunqi Zhang. Relevant Projects:

- Implementing ASR (Automatic Speech Recognition) technologies with Android Applications.
- Using Vosk, a speech recognition API, for speaker ID via cosine distance of x-vectors.
- Literature reviews of 15 distinct facial recognition algorithms.

Teaching Experience

CSE 6040 | Georgia Tech (Aug 2022 – Present)

Tutor for 1000+ students enrolled in CSE6040, Computing for Data Analytics, in the Master of Analytics program. Tasked with holding hourly sessions daily for topics including but not limited to: linear algebra, multivariate calculus, NumPy, pandas, algorithms (k-means, DBSCAN, PCA, logistic regression, image compression).

CS 1100 | Georgia Tech (Aug 2021 – Dec 2021 / Aug 2023 – Present)

Teaching Assistant for CS1100, Freshman Leap Seminar. Graded assignments including career goals, 4/5-year schedules, and resumes. Worked directly with Director of Computing Engagement for planning activities and class assignments.

Peer Mentor | Georgia Tech (Aug 2021 – Dec 2021 / Aug 2023 – Present)

Mentored 28 freshmen in their transition to the College of Computing at Georgia Tech. Helped with adjusting to workloads, planning schedules, and minimizing stress when entering a rigorous and fast-paced academic environment.

Technical Skills

Programming: Java, C# (ASP.NET), Python (NumPy, SciKit, pandas), HTML, CSS, JavaScript, SQL

Software/Tools: Git, Subversion, TeX, Bootstrap (Dashkit), Qualtrics, Android, Unix