

Siyan “Sylvia” Li
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EDUCATION

STANFORD UNIVERSITY, School of Engineering

M.S. in Computer Science

Palo Alto, CA

Sept 2021 - June 2023

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing

B.S. in Computer Science; Overall GPA: 3.97, Major GPA: 4.0

Atlanta, GA

Aug 2017 - Dec 2020

COURSEWORK

- Machine Learning, Knowledge-based AI, Natural Language Processing

PROFESSIONAL EXPERIENCE

AMAZON ROBOTICS, Amazon

Software Engineering Intern

Boston, MA

May 2020 - Aug 2020

- Added screenshot functionality to work stations to improve debugging.

COLLEGE OF COMPUTING, Georgia Tech

Head Teaching Assistant, Intro to AI

Atlanta, GA

Aug 2019 - Present

- Holds office hours and instructs review sessions.
- Debugs and creates course coding assignments.

RESEARCH

ROBOTICS, EVOLUTION, AND ART LAB, ITU Copenhagen

Research Assistant / Programmer, Employer: Dr. Sebastian Risi

Copenhagen, Denmark

Feb 2021 - Aug 2021

- Implements online system for interactive evolution of Minecraft structures.
- Utilizes CLIP embeddings for Minecraft structure generation.

ENTERTAINMENT INTELLIGENCE LAB, Georgia Tech

Research Assistant, Advisor: Dr. Mark O. Riedl

Atlanta, GA

Aug 2019 - Dec 2020

- Incorporated COMET into GPT-2 language model to generate sensible multi-character narratives.
- Applied VerbNet filtering techniques to GPT-2 to generate logically coherent stories.
- Combined GPT-2 and reinforcement learning to generate socially-normative texts.

INTELLIGENT CONTROL LAB, Carnegie Mellon University

Research Assistant, Advisor: Dr. Changliu Liu

Pittsburgh, PA

May 2019 - Aug 2019

- Used multi-task seq2seq model to simultaneously predict human intention and trajectory.
- Enabled a Kinova Gen3 robot arm to collaborate with humans using the prediction results.

PROJECTS AND PUBLICATIONS

- S. Sudhakaran, D. Grbic, S. Li, A. Katona, E. Najarro, C. Glanois, S. Risi, “Growing 3D Artefacts and Functional Machines with Neural Cellular Automata,” in proceedings of ALIFE 2021.
- X. Peng, S. Li, S. Wiegrefe, M. Riedl, “Improving Neural Storytelling with Commonsense Inferences,” in proceedings of 3rd Workshop on Narrative Understanding.
- X. Peng, S. Li, S. Frazier, M. Riedl, “Reducing Non-Normative Text Generation from Language Models,” in proceedings of International Conference on Natural Language Generation (INLG) 2020.
- A. Abuduweili, S. Li, C. Liu, “Adaptable Human Intention and Trajectory Prediction for Human-Robot Collaboration,” in proceedings of AI-HRI 2019.

PROGRAMMING SKILLS

- **Languages / Frameworks (In order of Proficiency):** Python, Java, Android, ROS, Keras, Pytorch, C, Tensorflow, HTML & CSS, JavaScript, React
- **Hardware / Devices:** Kinova Gen3 Robot Arm, PR2 Robot, SCiO Sensor
- **Concepts:** Deep Learning, Neural Networks, Artificial Intelligence Algorithms, Computer Vision (ConvNets), NLP Algorithms, Data Structures and Algorithms, Object-Oriented Programming