# Siyan "Sylvia" Li

**Website:** siyan-sylvia-li.com

**Email:** siyanli@stanford.edu

**LinkedIn:** linkedin.com/in/siyan-sylvia-li


## Education

**STANFORD UNIVERSITY, School of Engineering** — Palo Alto, CA
M.S. in Computer Science — *Sept 2021 - June 2023*

**GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing** — Atlanta, GA
B.S. in Computer Science; Overall GPA: 3.97, Major GPA: 4.0 — *Aug 2017 - Dec 2020*

## Coursework

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

## Professional Experience

**AMAZON ROBOTICS, Amazon** — Boston, MA
Software Engineering Intern — *May 2020 - Aug 2020*

**COLLEGE OF COMPUTING, Georgia Tech** — Atlanta, GA
Head Teaching Assistant, Intro to AI — *Aug 2019 - Dec 2020*

## Research

**STANFORD NLP GROUP, Stanford University** — Palo Alto, CA
Research Assistant, Advisor: Dr. Chris Manning — *Aug 2021 - Present*

- Designs and implements human-facing dialogue agents.

**ROBOTICS, EVOLUTION, AND ART LAB, ITU Copenhagen** — Copenhagen, Denmark
Research Assistant / Programmer, Employer: Dr. Sebastian Risi — *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** — Atlanta, GA
Research Assistant, Advisor: Dr. Mark O. Riedl — *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** — Pittsburgh, PA
Research Assistant, Advisor: Dr. Changliu Liu — *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.
- A. Alabdulkarim,, S. Li, X. Peng, "Automatic Story Generation: Challenges and Attempts," in proceedings of 3rd Workshop on Narrative Understanding.
- X. Peng, S. Li, S. Wiegreffe, 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