Siyan "Sylvia" Li

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing   Atlanta, GA

B.S. in Computer Science; Overall GPA: 3.96, 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*

- Added screenshot functionality to work stations to improve debugging.

COLLEGE OF COMPUTING, Georgia Tech   Atlanta, GA

Head Teaching Assistant, Intro to AI   *Aug 2019 - Present*

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

RESEARCH

ENTERTAINMENT INTELLIGENCE LAB, Georgia Tech   Atlanta, GA

Research Assistant, Advisor: Mark O. Riedl   *Aug 2019 - Present*

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

INTELLIGENT CONTROL LAB, Carnegie Mellon University   Pittsburgh, PA

Research Assistant, Advisor: 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.

HEALTHCARE ROBOTICS LAB, Georgia Tech   Atlanta, GA

Research Assistant, Advisor: Charles C. Kemp   *Aug 2018 - May 2019*

- Trained Convolutional Neural Networks and Fully Connected Neural Networks on RGB and spectral data.
- Combined spectroscopy and RGB data to improve the performance of material recognition in AI.

PROJECTS AND PUBLICATIONS

- X. Peng, <u>S. Li</u>, 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, <u>S. Li</u>, 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

LEADERSHIP AND INVOLVEMENTS

DRAMATECH THEATER   Atlanta, GA

Actress, Director, Former Marketing Director, Costumes Designer   *Aug 2017 - Present*

- Marketing Director of DramaTech Theatre for the 2018/2019 Academic Year: Digital Marketing and Publicity.
- Performing member in Lets Try This! Comedy Improv Troupe, a group of 20+ individual.
- Design and create costumes for theater productions based on the directors' visions.