

SKANDA VAIDYANATH

First year Master's Student, Computer Science

@ svidyan@stanford.edu

[skandavaidyanath.github.io](https://github.com/skandavaidyanath)

in [skanda-vaidyanath](#)

[skandavaidyanath](#)

EDUCATION

M.S. Computer Science A.I. Track

Stanford University

📅 Sep 2021 – Present

- CGPA: 4.105

B.E. (Hons.) Computer Science with a Minor in Data Science

BITS Pilani, Hyderabad Campus

📅 June 2016 – May 2020

- Class valedictorian.
- CGPA: 9.93/10, Major CGPA (only CS courses): 10.00/10

SELECT EXPERIENCE

Graduate Researcher

Stanford University

📅 Sep 2021 – Present

📍 Stanford, California

- Advised by Prof. Stefano Ermon and Prof. Dorsa Sadigh
- Worked on developing self-supervised models for satellite images and language-conditioned imitation learning
- Working on multi-agent reinforcement learning
- **Keywords:** Self-supervised learning, reinforcement learning, robotics

Research Intern

Microsoft Research

📅 Dec 2020 – July 2021

📍 Bangalore, India

- Advised by Dr. Sriram Rajamani
- Used program synthesis techniques to generate code from multi-modal user input using large language models like GPT-3
- **Keywords:** Program Synthesis, natural language processing

Research Intern

Max Planck Institute for Informatics

📅 Aug 2019 – May 2020

📍 Saarbrücken, Germany

- Advised by Dr. Andrew Yates and Dr. Paramita Mirza
- Worked on projects at the intersection of deep RL and information retrieval
- **Keywords:** Information retrieval, natural language processing, reinforcement learning

Research Intern (IUSSTF-Viterbi programme)

USC Institute for Creative Technologies

📅 May 2019 – July 2019

📍 Los Angeles, USA

- Advised by Prof. Kallirroi Georgila and Prof. David Traum
- Worked on RL algorithms to control a swarm of drones that attempts to negotiate with and save civilians from a forest fire.
- **Keywords:** Reinforcement learning

AWARDS, HONORS



BITS Hyderabad Merit Scholarship (for being in the top 1% of my graduating class every semester)



IUSSTF-Viterbi Scholar 2019 (one out of fifteen students chosen from India for the programme)



Max Planck Institute for Informatics 2019 Research Scholar Fellowship

PUBLICATIONS

- Divyansh Garg*, **Skanda Vaidyanath***, Kuno Kim, Jiaming Song, Stefano Ermon. LISA: Learning Interpretable Skill Abstractions from Language (under review) [\[pdf\]](#)
- Naman Jain, **Skanda Vaidyanath**, Arun Iyer, Nagarajan Natarajan, Suresh Parthasarathy, Sriram Rajamani, Rahul Sharma. Jigsaw: Large Language Models meet Program Synthesis. ICSE 2022, Pittsburgh [\[pdf\]](#)
- **Skanda Vaidyanath**, Kallirroi Georgila, David Traum. Using Reinforcement Learning to Manage Communications Between Humans and Artificial Agents in an Evacuation Scenario. Accepted at FLAIRS 2020 and presented at FLAIRS 2021, Florida. (Short Paper) [\[pdf\]](#)[\[poster\]](#)[\[slides\]](#)

ACTIVITIES, INTERESTS

- Course Assistant, Artificial Intelligence: CS221 Spring 2021-22
- Course Assistant, Reinforcement Learning: CS234 Winter 2021-22
- Research With Impact, SGSI 2021, Stanford University [\[link\]](#)
- Leadership Labs, SGSI 2020, Stanford University [\[link\]](#)

SKILLS

Python

C/C++

SQL

Java

Pytorch

Tensorflow

Git

COURSEWORK

Meta-Learning

Probabilistic Graphical Models

Reinforcement Learning

Computer Vision

Information Retrieval

NLP