

□ sax@berkeley.edu
□ alexsax.github.io
□

**Education** 

Doctor of Philosophy; Electrical Engineering and Computer Science

2022 (expected)

University of California, Berkeley; Berkeley, CA

Advisor: Jitendra Malik

Masters of Science with Distinction in Research; Computer Science

. . . . Oil. ii . O . . . . . . . .

Stanford University; Stanford, CA

Advisor: Silvio Savarese

Bachelor of Science; Mathematics

2018

Stanford University; Stanford, CA

**Recent Experience** 

Facebook Al Research, Research Intern; Menlo Park, CA

2018-2019

Improved perception for visuomotor policies by injecting computational visual biases (Mid-Level Representations).

Stanford University, Research Assistant; Stanford, CA

2017-2018

Developed methods for computing similarity between tasks and then using this similarity to develop efficient transfer curricula (Taskonomy). Also, created perceptually realistic environments for training embodied agents (Gibson).

Awards

Best Paper Award, CVPR 2018

2018

Taskonomy: Disentangling Task Transfer Learning

NVIDIA Pioneering Research Award

2018

Embodied Real-World Active Perception

Stanford University Distinction in Research

2018

Computational Evidence for Structure in the Space of Tasks

**Teaching** 

CS 331B: Representation Learning (TA)

2018

CS 103: Mathematical Foundations of Computer Science (TA)

2015

**Papers** 

[4] Mid-Level Visual Representations Improve Generalization and Sample Efficiency for Learning Visuomotor Policies

Alexander Sax, Amir Zamir, Bradley Emi, Leonidas Guibas,, Silvio Savarese Jitendra Malik. *In submission*.

[3] Taskonomy: Disentangling Task Transfer Learning

Amir Zamir, Alexander Sax\*, William B. Shen\*, Leonidas Guibas, Jitendra Malik, Silvio Savarese. *CVPR*, 2018. (Best Paper) (Oral)

[2] Embodied Real-World Active Perception

Fei Xia\*, Zhiyang He\*, Amir Zamir\*, Alexander Sax, Silvio Savarese. CVPR, 2018. (Spotlight)

[1] Joint 2D-3D-Semantic Data for Indoor Scene Understanding

Iro Armeni\*, Alexander Sax\*, Amir Zamir\*, Silvio Savarese. Arxiv (preprint), 2016.

**Talks** 

Visual Biases in Embodied Agents, Facebook Al Research, Menlo Park

Apr. 2018

# Sasha Sax



Volunteering BAIR Undergraduate Mentoring: Graduate Mentor 2019-Present

PyTorch: Developer2017-Present3DV Conference: Student Organizer2016Stanford Class of 2016: Junior Class President2014-2015East Palo Alto Tutoring and Tennis: Tutor2013-2014

Business Association of Stanford Entrepreneurial Students: social good subgroup 2014

**Older Experience** 

# Microsoft Corporation, Mountain View, CA

Software Engineering Intern, 2016

Improved response time in Powerpoint Designer via better parallelism.

## Stanford University, Stanford, CA

Research Assistant, 2015

Investigated square-finding algorithms to find faster ones—or else to show they don't exist. I found alternative algorithms similar to best-known speed. I also investigated alternative algorithms for replacement paths in the presence of edge failures. I was supervised by Dr. Virginia Williams.

#### RTI International, Washington, DC

Software Engineering Intern, 2014

Created a statistical analysis package which assesses effectiveness of interventions in national educational systems in developing countries. The package was used by the governments of Kenya, Ghana, and Zambia. I also designed and implemented software development process that required coordination between multiple teams, and drove this change through institutional resistance by gathering consensus.

### Blackboard Inc., Washington, DC

Software Engineering Intern, 2013

Created an early-warning analytics system to monitor traffic and system health in real-time. The system used NodeJS, MongoDB, and Hadoop.

# RTI International, Washington, DC

Software Engineering Intern, 2010-2012

Developed an automated survey-data cleaning process within STATA to reduce survey turnaround from 2 months to 1 week.