

# Sasha Sax | Curriculum Vitae

✉ [sax@berkeley.edu](mailto:sax@berkeley.edu) • [alex.sax.github.io](https://github.com/alex.sax)

## Education

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Ph.D. Student, Electrical Engineering & Computer Science: **UC Berkeley** **Berkeley, CA**  
2018-2021 (Expected)

M.S. Candidate, Computer Science: **Stanford University** **Stanford, CA**  
*Distinction in Research*  
GPA: **4.0/4.0** 2016-2018 (Expected)

B.S. Candidate, Mathematics: **Stanford University** **Stanford, CA**  
GPA: **3.7/4.0** 2012-2018 (Expected)

Semester Abroad: **Independent University of Moscow** **Moscow, Russian Federation**  
GPA: **4.0/4.0** 2014

Coursework: **University of Maryland College Park** **College Park, MD**  
GPA: **4.0/4.0** 2011-2012

## Experience

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**Stanford University** **Palo Alto, CA**  
*Graduate Researcher* *Current, from Sep 2016*  
My research focuses on broad visual perception and on models that can generalize to perform multiple tasks. I work on understanding and leveraging how visual problems are related to each other. My advisor is Dr. Silvio Savarese, and I am also supervised by Dr. Amir Zamir.

**Microsoft** **Mountain View, CA**  
*Software Engineering Intern* *Summer 2016*  
I worked on parallelizing computing within PowerPoint Designer. Designer is a service which uses both expert systems and modern machine learning to lay out content on slides. As a side contribution, I developed a CNN-based system to identify logos on slides.

**Stanford University** **Palo Alto, CA**  
*Undergraduate Researcher* *Summer 2015*  
I investigated square-finding algorithms to find faster ones—or 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 Engineer* *Summer 2014*  
I 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** **San Francisco, CA**  
*Software Engineering Intern* *Summer 2013*  
I used NodeJS, MongoDB, and Hadoop to create an early-warning analytics system to monitor traffic and system health in real-time. The system was designed to alert engineers to abnormal behavior.

References available upon request

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## Experience (ctd.)

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<b>RTI International</b> <i>Data Analyst; Software Engineer</i>	<b>Washington, DC</b> 2010-2012
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I was hired to clean and analyze survey data, but developed an automated process within STATA to reduce survey turnaround from 2 months to 1 week.

## Publications

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A. R. Zamir, A. Sax\*, W. B. Shen\*, L. J. Guibas, J. Malik, S. Savarese, *Taskonomy: Disentangling Task Transfer*, CVPR, 2018. <http://taskonomy.vision>

F. Xia, Z. He, A. R. Zamir, A. Sax, S. Savarese, *Embodied Real-World Active Perception*, CVPR, 2018. <http://gibson.vision>

I. Armeni\*, A. Sax\*, A. R. Zamir, S. Savarese, *Joint 2D-3D-Semantic Data for Indoor Scene Understanding*, arXiv preprint, 2017. <http://3dSemantics.stanford.edu>

## Teaching

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<b>CS331B (TA):</b> <i>Representation Learning for Computer Vision</i>	Autumn 2017
<b>CS103 (TA):</b> <i>Mathematical Foundations of Computing</i>	Winter 2016

## Conference Volunteer Work

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<b>CVPR:</b> <i>reviewer</i>	2018
<b>ICCV:</b> <i>Beyond Supervised Learning Workshop, reviewer</i>	2017
<b>3DV:</b> <i>Student Organizer</i>	2016

## Extracurricular Volunteer Work

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<b>PyTorch:</b> <i>Developer &amp; member of GitHub organization</i>	Current, from 2017
<b>Stanford Class of 2016:</b> <i>Junior Class President</i>	2014-2015
<b>Business Association of Stanford Entrepreneurial Students:</b> <i>Member of prosocial entrepreneurship subgroup</i>	2013-2014
<b>East Palo Alto Tutoring &amp; Tennis:</b> <i>Tutor</i>	2013-2014

References available upon request