Sasha Sax

Research Scientist, FAIR (Meta)

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Education

Ph.D. Computer Science [*AI, Minor: Theoretical Statistics*] *2023*
University of California, Berkeley; Berkeley, CA *Advisors:* Jitendra Malik & Amir Zamir

M.S. Computer Science [*Distinction in Research*] *2018*
Stanford University; Stanford, CA Advisor: Silvio Savarese

B.S. Mathematics. *2018*
Stanford University; Stanford, CA

Miscellaneous: AMS Math in Moscow *(Independent University of Moscow/HSE)*, Sensory Ecology *(Lund University, Sweden)*, Concurrent enrollment *(University of Maryland 2011-12)*

Recent Experience

Research Scientist (Computer Vision), FAIR, Meta, Menlo Park, CA *2023-present*
Research Intern, FAIR, Meta; San Francisco, CA *2022-2023*
Research Intern, FAIR, Facebook; Menlo Park, CA *2017-2018*
Software Engineering Intern, Powerpoint, Microsoft,; Mountain View, CA *2016*

Awards

Best Paper Award Nomination, CVPR *2020*
Robust Learning Through Cross-Task Consistency

Best Paper Award, CVPR *2018*
Taskonomy: Disentangling Task Transfer Learning

NVIDIA Pioneering Research Award *2018*
Embodied Real-World Active Perception

NVIDIA Graduate Fellowship (Honorable Mention) *2021-2022*
Mid-Level Representations for Robotic Perception

Stanford University Distinction in Research *2018*
Computational Evidence for Structure in the Space of Tasks

Winner of CVPR 2019 Habitat Embodied Agents Challenge [RGB Track] *2019*
Mid-Level Visual Representations Improve Generalization and Sample Complexity

Outstanding Reviewer, CVPR 2020 *2020*

Teaching

Machine Learning (TA)*: Berkeley CS 189/289A* *2020*
Representation Learning (Head TA)*: Stanford CS 331B* *2018*
Mathematical Foundations of Computing (TA)*: Stanford CS 103* *2015*

Invited Talks

Learning-Based Computational Models of Visual Behavior (Poster), Lund, SE *2022*
This sensory ecology seminar was simply delightful—more embodied AI people should go!! You need to **apply early!** It's a 2-week lecture series for 40 PhD/postdocs, taught by the world's leading sensory ecologists every 2 years. And you will learn how animals sense and represent their environment, and that the line between sensing and thinking is a blurry one.

Mid-Level Visual Representations, CS 280 (guest lecture), Berkeley, CA *2021*
Visual Biases in Embodied Agents, Facebook AI Research, Menlo Park, CA *2019*

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Service

Graduate Mentor: BAIR Undergraduate Mentoring *2019-2023*
Reviewer: (CVPR ECCV ICCV ICRA CoRL NeurIPS ICML TPAMI …) *2018-Present*
Graduate Admissions: Student Committee *2019, 2021*
Student Organizer: 3DV Conference *2016*
Junior Class President: Stanford Class of 2016 *2014-2015*
K-5 Math Tutor: East Palo Alto Tutoring and Tennis *2013-2014*

Demos

Robust Cross-Task Consistency, ECCV 2020, Glasgow. *2020*

Older Experience

Stanford University, Research Assistant; Stanford, CA *2016-2017*
Visual task relatedness (Taskonomy), Gibson environment. (Silvio Savarese group)

Microsoft Corporation, Mountain View, CA Software Engineering Intern, *2016*
Powerpoint Designer: improved response time through parallelization (C#), and prototyped a logo detector, one of the first internal ML elements in Designer (TF ResNet backbone).

Stanford University, Stanford, CA Research Assistant, *2015*
Fast square-finding in graphs and fast finding of low-cost replacement paths in present of edge failures (Virginia Williams group)

RTI International, Washington, DC Software Engineering Intern, *2014*
Created STATA package to automate statistical analysis and survey ingestion for Early Grade Reading + Math (EGRMA) evaluations in developing countries. Correctly handles reweighing + variance adjustments for multi-level stratified cluster samples. Later used by government orgs in Kenya, Ghana, and Zambia.

Blackboard Inc., San Francisco, CA Software Engineering Intern, *2013*
Created an early-warning analytics system to monitor app API traffic, health metrics in real-time. The system used NodeJS, MongoDB, and Hadoop.

RTI International, Washington, DC Software Engineering Intern, *2010-2012*
Using STATA, developed an automated data-cleaning process that reduced turnaround from 2 months to 1 week and freed PhD statisticians to work on other problems.

Publications

Please see **Google Scholar** for current list of publications:
https://scholar.google.com/citations?hl=en&user=PIq7jcUAAAAJ