

# Rohan Taori

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## Education

### University of California, Berkeley

Aug '16 - May '19

GPA: 3.98

B.S. in Electrical Engineering and Computer Science

Awards: Regents' & Chancellor's Scholar (2% of students), Highest Honors & Dean's List (3% of engineers)

Memberships: Eta Kappa Nu (HKN) honor society, 2019 Accel Scholar (VC firm Accel and Berkeley)

## Research & Work Experience

### Uber ATG – AI Research Resident

Sep '19 - Present

- Working on understanding and improving the reliability of autonomous driving systems

### Berkeley AI Research – Undergraduate Researcher

Aug '16 - Present

- Worked with Prof. Ben Recht on understanding robustness in real-world distribution shifts  
Study was the largest to date: compared 150+ models with 200+ ImageNet distribution shifts
- Worked with Prof. Jitendra Malik on sample efficient deep RL using non-parametric value functions
- Worked with Prof. Carlo Séquin on finding optimal solutions of irregular solids via gradient descent

### NVIDIA – Deep Learning Research Intern

May - Aug '19

- Worked on new techniques for large-scale texture synthesis in near real-time for arbitrary textures  
Developed a new architecture which improves generalization to unseen textures

Also previously a software engineering intern at Facebook, Salesforce, and Xamarin (Microsoft)

## Teaching

### Machine Learning @ Berkeley – VP of Education

Jan '17 - Present

- Led a 15-person team running 2 student classes, workshops, boot camps, and reading groups
- Organized and created content for a new deep learning class of 200+ students; taught regular lectures
- Spearheaded creation of Deep Learning Workshop Series and member education program
- Goal to bring ML education to students: content up for [fall17](#), [spring18](#), [fall18](#), [member class](#), [workshops](#)

## Project Highlights

### Autoregressive Models – Deep Unsupervised Learning Research Project

Jan - May '19

- Studied failure cases of image-based autoregressive generative models

### Audio Adversarial Examples – Deep Neural Networks Research Project

Jan - May '18

- Adversarially attacked Mozilla's speech recognition system using genetic algorithms

### Take a Picasso – CalHacks 3.0 Project

Oct '16

- Robotic sketch artist; won Best Hardware Hack, Best 3D Printed Hack, and grant from Peter Thiel's 1517 Fund

## Papers

**Rohan Taori**, Achal Dave, Vaishaal Shankar, Nicholas Carlini, Benjamin Recht, Ludwig Schmidt. *When Robustness Doesn't Promote Robustness: Synthetic vs. Natural Distribution Shifts on ImageNet*. In submission ICLR 2020. [link](#).

Guilin Liu, **Rohan Taori**, Zhiding Yu, Ting-Chung Wang, Edward Liu, Karan Sapra, Fitsum Reda, Brandon Rowlett, Andrew Tao, Bryan Catanzaro. *Real-Time Universal Texture Synthesis using Feature Maps as Transpose Convolution Filters*. In submission CVPR 2020. [link](#).

**Rohan Taori**, Amog Kamsetty, Brenton Chu, Nikita Vemuri. *Targeted Adversarial Examples for Black Box Audio Systems*. Published at the 2019 IEEE Security and Privacy Workshops. Appeared in NeurIPS 2018 Security in ML Workshop and DEFCON 26 CAAD Village. [link](#).

Murtaza Dalal\*, Alexander Li\*, **Rohan Taori\***. *Autoregressive Models: What Are They Good For?* Appearing in NeurIPS 2019 Information Theory and ML Workshop. [link](#).

Carlo Séquin, Yifat Amir, Ruta Jawale, Hong Jeon, Alex Romano, **Rohan Taori**. *Modular Toroids Constructed from Nonahedra*. Berkeley EECS 2017 Tech Report. [link](#).