

## Alvin Wan

[github.com/alvinwan](https://github.com/alvinwan) . [aavlv.in/googlescholar](https://aavlv.in/googlescholar) . [research.alvinwan.com](https://research.alvinwan.com)

Apple research scientist studying efficient deep learning for computer vision, previously specializing in autonomous vehicles and virtual reality. Recognized internationally for social impact and design.

### University of California, Berkeley

**Ph.D. in Computer Science** . 1600+ citations 2018 - 2022

**Published:** CVPR, ICCV, ICLR . **Service:** IROS, CVPR, I/ECCV . **Awards:** NSF GRFP (2018)<sup>1</sup>

**B.S. in Electrical Engineering and Computer Science** . Major GPA: 3.81/4.0 2014 - 2018

**Honors:** Samuel Silver Memorial Award (2018), Summer Ugrad. Research Fell. (2017), Leadership Award (2016), Dean's Honor List (2016), Regents' and Chancellor's Sch. (2014)

**Computer Science Lecturer 2x, Head TA 6x** . 4.83 / 5.00 rating 2015 - 2021

**Data Science (Fa21), Machine Learning (Fa19, Sp18, Fa17, Sp17), Discrete Mathematics & Probability Theory (Sp16, Fa16, Sp17) . Introductory Computer Science (Fa15)**

- handled staffs of up to 70 TAs, tutors, interns; serving 500-1100 students
- organized weekly events with 100+ attendees; co-wrote course notes, assignments
- Ok.py autograder dev: raised test coverage from 37.1% to 90.7%, 3k+ users annually
- published 3 booklets for [math](#), [probability](#), [intro. computer science](#) (10k+ downloads)
- Head Tutor (*Intro. CS, Su16*), Tutor (*ML, Su18; AI, Su16; Intro. CS, Sp15*)

**Apple** Research Scientist 2022 - now  
Research efficient neural networks for computer vision

**Tesla AutoPilot** AI Intern 2021  
Build kinematics neural networks for pedestrians, cyclists, etc., deployed to millions of cars

**Facebook Reality Labs** Student Researcher 2019 - 2021  
Build efficient neural networks called "FBNet" (V2, V3), deployed to millions of headsets

**Rex Homes** Machine Learning Engineer 2018 - 2021  
Built scheduling assistant to handle 5k+ monthly messages, home scans for VR tours

**Facebook** Software Engineering Intern 2016  
cut 50%+ networks requests for Android Messenger photo gallery

### Volunteering

- **Be My Eyes** Volunteer (2016 - now): help visually-impaired by answering 'visual questions' on video chat
- **Bit by Bit** Founder, Mentor (2017 - 2020): collaborate with LinkedIn, Facebook, Unity etc. to teach coding to kids in underprivileged communities. [link](#); organized Sp19 tour: 40+ participants, 6 partner orgs
- **TEDxBerkeley** Developer (2014 - 2018): annually manage ~250 volunteers, built 4 iOS apps and [website](#)

### International Awards

- Microsoft Imagine Cup "Big Data" **World Finals Top 6 Finalists** (2018, of 40k+ entrants, 200+ countries)
- Rookies Co. "Web and Mobile" **Int'l Top 16 Semifinalist** (2017, ~9k entries, 80+ countries)
- Adobe Design Achievement Awards "Social Impact" **Int'l Semifinalist** (2017, 2018, ~7k entrants)

### Hobbies

- teach on AirBnb (**50+ 5-star reviews**, [link](#)) and Skillshare ("Top Teacher"<sup>2</sup>, **30,000+ students**, [link](#))
- write for Smashing Magazine (virtual reality + RTC, [link](#)), LogRocket (optimized Javascript, [link](#)), DigitalOcean (machine learning, [link](#), **2.2+ million views**)
- design ([dribbble.com/alvinwan](https://dribbble.com/alvinwan))

<sup>1</sup> One of 20 nation-wide recipients for Machine Learning, representing ~0.1% of 12,000+ applicants.

<sup>2</sup> One of ~100 teachers with the "Top Teacher" designation, representing <1% of 10,000+ teachers on the platform