

## Education

**University of California, Berkeley**  
*Bachelor of Arts, Computer Science*

Berkeley, CA  
*Fall 2013 - Spring 2017*

## Experience

### Google LLC

*Software Engineer, YouTube*

New York, NY

*March 2021 - Present*

- Developing features on the YouTube Kids iOS app to give kids a fun, accessible experience and parents peace of mind.

### Apple Inc.

*Software Engineer, Accessibility*

Cupertino, CA

*October 2018 - February 2021*

- Created the Magnifier app in iOS, which helps people with visual impairments to see the world.
- As a response to the COVID-19 pandemic, implemented People Detection, which leverages the depth sensors on iPhones to enable blind people to maintain 6 feet of social distancing.
- Brought complete accessibility to first-party apps including the Apple TV app and Home app.
- Delivered a talk at Apple's annual conference WWDC: *VoiceOver Efficiency with Custom Rotors*.

### Adobe Inc.

*Machine Learning Software Engineer*

San Francisco, CA

*May 2017 - September 2018*

- Created a system of serving machine learning models to drive interactive features in Adobe Stock search.

### Lawrence Berkeley National Lab

*Undergraduate Researcher*

Berkeley, CA

*August 2014 - May 2017*

- Designed and carried out experiments to control the rotation of *E. coli* flagella to study whether the rotation patterns can be used as inputs to a biosensor of chemicals around the bacteria.
- Learned fluorescent microscopy and 3D printing to observe and run experiments in a flow cell of my design.
- Created a video segmentation algorithm to automate data collection and analysis.

### Umbo Computer Vision

*Machine Learning Intern*

Taipei, Taiwan

*May 2016 - August 2016*

## Volunteering

I volunteer as an emergency medical technician (EMT) at Park Slope Volunteer Ambulance Corps in Brooklyn.

## Hobbies

- iOS app development. My 2-year project: Layout Studio .
- Outdoor activities including hiking, skiing, and kayaking.
- Taking courses in fields from social psychology to molecular biology.

## Awards

Huang Scholarship 2016-2017: sponsored study of third-year Chinese in Beijing one summer and an internship in Taipei the next summer.

## Publications

Dour et al. (2020). User interfaces for indicating distance. *U.S. Patent Application No. 2022/0084374(A1)*. Cupertino, CA: U.S. Patent and Trademark Office.

T. Zajdel, **A. Walczak**, D. Sengupta, V. Tieu, & M. Maharbiz, “Towards A Biohybrid Sensing Platform Built on Impedance-based Bacterial Flagellar Motor Tachometry,” *IEEE BioCAS*, Turin, Italy. October 2017.

## Conference Abstracts

T. Zajdel, **A. Walczak**, D. Sengupta, V. Tieu, C. Ajo-Franklin, & M. Maharbiz, “Impedance-Based Electrochemical Readout of Bacterial Flagellar Rotation,” *Biophysical Journal*. June 2016. **Outstanding Poster Award**