

Alex Walczak

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INTERESTS Machine learning, computer vision, control theory.

EDUCATION **University of Washington, Seattle** (September 2017-)
Master's & Ph.D. in Electrical Engineering
Research focus: Human-cyber-physical systems: engineered systems that are built from, and depend upon, the seamless integration of computational algorithms, physical components, and human interaction.

University of California, Berkeley (Class of 2017)
B.A. in Computer Science

COURSES CS189: Machine Learning CS162: Operating Systems
CS170: Algorithms EE123: Digital Signal Processing
EE222: Nonlinear Control Theory EE126: Statistics & Probability

RESEARCH & EXPERIENCE *Software Engineering Research Intern* **San Francisco, CA**
Adobe Research **Summer 2017**

I am investigating, prototyping, and refining new algorithms in computer vision and deep learning on the Adobe Search team.

Computer Vision Research Intern **Taipei, Taiwan**
Umbo CV **Summer 2016**

I developed a program to do online few-shot learning with an ordinary laptop and webcam. Using an additional layered architecture, this ConvNet automatically expands as new objects are seen.

Undergraduate Researcher **Berkeley, CA**
UC Berkeley EECS Department, **Fall 2014-Spring 2017**
Lawrence Berkeley National Lab

I developed a video segmentation algorithm for automated data collection and processing of rotating *E. coli*.

LANGUAGES & SOFTWARE Python Java C iOS (Swift)
Torch with Lua Tensorflow git & Agile Android UI

iOS PROJECTS I developed an app that tracks users' activity in real time. This app utilizes the iPhone's sensing capabilities, converting accelerometer, GPS, to various activity metrics. Animated charts visualize results for the day, week, month, or year.

RECOGNITIONS Berkeley CITRIS Invention Lab Fellowship 2016
Huang Scholar: scholarship to study Chinese in Beijing 2015 and hold an internship in Taiwan 2016
Scholarship to study Southeast Asian culture in Singapore (NUS) 2014

HOBBIES & OTHER Chinese language, College Ski and Snowboard Club,
Native Polish speaker