

Alex Walczak

206 Roosevelt Way
San Francisco, CA 94114
(425) 350-8482

awal@awal.io
awal.io (work in progress)

INTERESTS Distributed machine learning, large scale software engineering for AI

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

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

RESEARCH & *Software Engineer* **San Francisco, CA**
EXPERIENCE ***Adobe Systems, Search*** **Summer 2017-Present**
 Innovation Team

I focus on the automation of massive scale distributed deep learning training and inference using TF r1.5 and custom AWS CloudFormation configurations. The purpose is to investigate, prototype, and refine recent algorithms in computer vision and deep learning to improve image search at Adobe.

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

As an intern, I developed a demo to perform online few-shot learning with an ordinary laptop and webcam. Using an additional layered architecture, this ConvNet automatically expands its final layer to learn new objects in real time.

Research Programmer **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 & Python ✓✓✓ Java ✓✓ C ✓✓ iOS (Swift) ✓
SOFTWARE Tensorflow ✓✓✓ Torch/Lua ✓✓ git & Agile ✓✓ Android UI ✓

iOS PROJECTS I developed an app that tracks users' activity in real time. This app collects data with the iPhone's many sensors and visualizes it with animated graphs and charts.

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

Updated December 2017