Alex Walczak

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INTERESTS	Cloud infrastructure, distributed machine learning, and software engineering for AI/ML/CV

EDUCATION
University of California, Berkeley
B.A., Computer Science, 2017

COURSES

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

RESEARCH & EXPERIENCE

Adobe Systems, ML Team — San Francisco
Software Engineer — Summer 2017-Present

Cloud computing and infrastructure for fast, large scale distributed deep learning. The purpose is to investigate and deploy new ML algorithms at Adobe.

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

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.

UC Berkeley EECS, — Berkeley, CA
Lawrence Berkeley National Lab — Fall 2014-Spring 2017
Research Programmer

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

PUBLICATIONS
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 Conference*, Turin, Italy. October 2017.

LANGUAGES & SOFTWARE

Python ✓✓✓	Terraform ✓✓✓	Java ✓✓	iOS (Swift) ✓
Tensorflow ✓✓✓	AWS ✓✓✓	C ✓✓	Android UI ✓
The Cloud ✓✓✓	git ✓✓✓		Agile ✓

iOS PROJECTS
Developed an app that tracks users' activity in real time. This app collects data on the iPhone's many sensors and visualizes it on dynamic graphs and charts.

RECOGNITIONS
Berkeley CITRIS Invention Lab Fellowship 2016
Huang Scholarship 2015-2016
Santander Bank Scholarship 2014

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