

Alex Walczak

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INTERESTS Cloud infrastructure, distributed ML, 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, Machine Learning Team** San Francisco
Software Engineer May 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
Software Engineering Intern Summer 2016

Developed a demo to perform online few-shot learning with a basic laptop and webcam. Using an additional ML architecture, this model automatically expands its final layer to learn new objects in real time.

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

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

MACHINE LEARNING	✓✓✓		✓✓
	Tensorflow	Torch	Caffe

LANGUAGES & TOOLS	✓✓✓	✓✓	✓	
	Python	Cloud infra.	Java	iOS (Swift)
	Docker	Terraform	C	Android UI
	git	AWS		Agile

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.

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

Updated May 2018