

# Alex Walczak

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	206 Roosevelt Way San Francisco, CA 94114 (425) 350-8482	awal@awal.io awal.io (work in progress)
INTERESTS	Distributed machine learning, data and software engineering for large scale AI	
EDUCATION	<b>University of California, Berkeley</b> B.A., Computer Science, 2017	
COURSES	CS189: Machine Learning CS170: Algorithms/Complexity EE222: Nonlinear Control Theory	CS162: Operating Systems EE123: Digital Signal Processing EE126: Statistics & Probability
RESEARCH & EXPERIENCE	<b>Adobe Systems, Search Team</b> San Francisco <i>Software Engineer</i> Summer 2017-Present  Automating large scale distributed deep learning using Tensorflow r1.5 and custom AWS CloudFormations. The purpose is to investigate, prototype, and refine new algorithms in computer vision and deep learning to improve image search at Adobe.  <b>Umbo CV</b> Taipei, Taiwan <i>Computer Vision Research Intern</i> 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.  <b>UC Berkeley EECS, Lawrence Berkeley National Lab</b> Berkeley, CA <i>Research Programmer</i> Fall 2014-Spring 2017  Produced a video segmentation algorithm for automated data collection and processing of rotating <i>E. coli</i> .	
PUBLICATIONS	T. Zajdel, <b>A. Walczak</b> , D. Sengupta, V. Tieu, & M. Maharbiz, "Towards A Biohybrid Sensing Platform Built on Impedance-based Bacterial Flagellar Motor Tachometry," <i>IEEE BioCAS Conference</i> , Turin, Italy. October 2017.	
LANGUAGES & SOFTWARE	Python ✓✓✓    Java ✓✓    C ✓✓    iOS (Swift) ✓ Tensorflow ✓✓✓    Torch/Lua ✓✓    git & Agile ✓✓    Android UI ✓	
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	

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