# JEDRZEJ J. KOZERAWSKI

(805) 284-6904 | jkozerawski@ucsb.edu
www.linkedin.com/in/jkozerawski

## EDUCATION

*University of California Santa Barbara* — *Santa Barbara, CA, USA*
**PhD** in Electrical and Computer Engineering — GPA: 3.85 / 4.0
**Awards:** Fulbright Scholarship – renounced — Expected: 2021

*Poznan University of Technology* — *Poznan, Poland*
**MS** in Mechatronics — GPA: 4.68 / 5.0
**Awards:** Dean's Scholarship (2014) — 2014 – 2015

*Poznan University of Technology* — *Poznan, Poland*
**BS** in Mechatronics — GPA: 4.63 / 5.0
**Awards:** Award for the Best Freshman, Dean's Scholarship (2011, 2012, 2013) — 2010 – 2014

*Online education*

- PyTorch Scholarship Challenge – Facebook (Udacity)
- Neural networks for machine learning – University of Toronto (Coursera)
- Artificial intelligence for robotics – Stanford (Udacity)
- Artificial intelligence – UC Berkeley (EdX)

## PROFESSIONAL EXPERIENCE

*Microsoft Research* — *Redmond, WA, USA*
***Research Software Development Engineer*** — *Oct '19 – Jan '20*

- Research in long-tail and imbalanced classification leading towards patent and publication

*Microsoft Research* — *Redmond, WA, USA*
***Computer Vision Research Intern*** — *Jun '19 – Sep '19*

- Research in large-scale long-tail image recognition
- Utilized adversarial training for imbalance datasets

*University of California, Santa Barbara* — *Santa Barbara, CA, USA*
***Graduate Student Researcher – Four Eyes Lab*** — *Sep '16 – Jun '19*

- Research in machine learning algorithms for computer vision applications
- Developed novel object classification algorithms for tasks with insufficient training data
- Deep transfer learning for One-Shot / Few-Shot One-Class image recognition

*Samsung Research America* — *Mountain View, CA, USA*
***Computer Vision Intern – Think Tank Team*** — *Apr '18 – Sep '18*

- Object detection and tracking from stereo vision for autonomous driving applications
- Experimental stereo vision setups for autonomous driving applications
- Deep learning for stereo matching and scene segmentation

*FLIR Systems* — *Santa Barbara, CA, USA*
***Deep Learning Engineer*** — *Jun '17 – Sep '17*

- Responsible for creating deep learning methods for pedestrian re-identification from camera images
- Developed deep networks for semantically meaningful people and clothing descriptors
- Deep pose estimation for better pedestrian re-identification

*Autodesk* — *Boston, MA, USA*
***Machine Learning Intern*** — *Jun '16 – Sep '16*

- Developed supervised learning algorithms to reflect user preferences in architectural documentation
- Worked on automated object placement in a 2D space
- Unsupervised clustering of architectural views

*University of California, Santa Barbara* — *Santa Barbara, CA, USA*
***Graduate Student Researcher – Intelligent and Predictive Systems Lab*** — *Oct '15 – Sep '16*

- Team leader in National Library of Medicine "Pill Image Recognition Challenge"
- Developed machine learning algorithms for network data prediction
- Performed unsupervised feature selection and classification of medical data sets

*Institute of Biocybernetics and Biomedical Engineering* — *Poznan, Poland*
***Research Intern*** — *Jun '12 – Jul '12*

- Performed scientific evaluation of the clinical usefulness of the designed devices
- Completed 70+ page report analyzing patients data on Huntington Disease

## TEACHING EXPERIENCE

*Stanford University* — *Stanford, CA, USA*
***Voluntary Section Leader – CS 106A Code in Place*** — *Apr '20 – Now*

- Leading weekly live practical coding sections for students
- Creating challenging problems for students

## TEACHING EXPERIENCE continued

*University of California, Santa Barbara* — *Santa Barbara, CA, USA*

***Teaching Associate – CS 32 Object Oriented Design and Implementation*** — *Mar '20 – Now*

- The lead instructor for the CS 32
- Leading lectures, course organization, course materials preparation

***Teaching Assistant – CS/ECE 181 Introduction to Computer Vision*** — *Jan '20 – Mar '20*

- Led discussion sections to explain novel concepts in machine learning
- Helped students with practical implementations of algorithms and their theoretical understanding

***Teaching Assistant – CS 165B Machine Learning*** — *Jan '19 – Mar '19*

- Led discussion sections to explain novel concepts in machine learning
- Helped students with practical implementations of algorithms and their theoretical understanding

***Teaching Assistant – ECE 152A Digital Design Principles*** — *Jan '16 – Mar '16*

- Led computer labs classes where student designed and implemented electronic circuits
- Created and graded homework assignments and practice exercises

## GIVEN TALKS

"*Explaining concepts visually: a novel approach for general object recognition*" – at UCSB Dynamical Neuroscience seminar, Nov 2018

"*Explaining concepts visually: continuous AI learning*" – at UCSB CS Summit, Mar 2018

„*SVM Transfer Learning for Object Recognition*" – at UCSB Society for Industrial and Applied Mathematics, Mar 2017

## PUBLICATIONS

[1] CLEAR: Cumulative LEARning for one-shot one-class image recognition
**J. Kozerawski** and M. Turk
IEEE Conference on Computer Vision and Pattern Recognition **(CVPR)**, 2018

[2] HALT: Hallucinating Adversarial Images for Long-Tailed Datasets
**J. Kozerawski**, V. Fragoso, N. Karianakis, G. Mittal, M.Turk and M. Chen
In Submission

## SKILLS

Python, PyTorch, Caffe, TensorFlow, OpenCV, Linux, C++, C, Git