

Joseph Chet Redmon

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I'm a Ph.D. student at the University of Washington interested in computer vision, including object detection, image classification, and model compression.

Education

Ph.D. (in progress)	University of Washington	3.8 GPA	2013 - 2019
M.Sc.	University of Washington	3.8 GPA	2013 - 2015
B.A.	Middlebury College	3.7 GPA	2008 - 2012

Publications

YOLOv3: An Incremental Improvement

arXiv 2018

Joseph Redmon, Ali Farhadi

Cited by: 144

Who Let The Dogs Out? Modeling Dog Behavior From Visual Data

CVPR 2018

Kiana Ehsani, Hessam Bagherinezhad, **Joseph Redmon**, Roozbeh Mottaghi, Ali Farhadi

Cited by: 2

IQA: Visual Question Answering in Interactive Environments

CVPR 2018

Daniel Gordon, Aniruddha Kembhavi, Mohammad Rastegari, **Joseph Redmon**, Dieter Fox, Ali Farhadi

Cited by: 26

YOLO9000: Better, Faster, Stronger

CVPR 2017, Best Paper Honorable Mention

Joseph Redmon, Ali Farhadi

Cited by: 1360

XNOR-Net: Imagenet Classification Using Binary Convolutional Neural Networks

ECCV 2016

Mohammad Rastegari, Vicente Ordonez, **Joseph Redmon**, Ali Farhadi

Cited by: 844

You Only Look Once: Unified, Real-Time Object Detection

CVPR 2016, OpenCV People's Choice Award

Joseph Redmon, Santosh Divvala, Ross Girshick, Ali Farhadi

Cited by: 2773

Real-Time Grasp Detection Using Convolutional Neural Networks

ICRA 2015

Joseph Redmon, Anelia Angelova

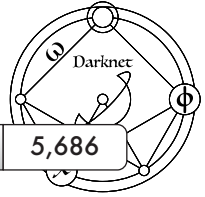
Cited by: 134

Darknet

Open Source Neural Networks in C

★ Stars 10,540

🔗 Forks 5,686



Author of comprehensive neural network framework with support for convolutional, fully connected, locally connected, and recurrent primitives. Used by IBM, Amazon, and the United States Military. Cloned on GitHub more than 600 times per day.

<https://pjreddie.com/darknet/>

Cited by: 137

Teaching

Instructor: CSE 490G1/599G1 - Introduction to Deep Learning *Fall 2018*
University of Washington

Undergraduate/graduate deep learning course: neural networks, optimization, CNNs, RNNs, RL, current research

Instructor: CSE 455 - Computer Vision *Spring 2018*
University of Washington

Undergraduate computer vision course: image processing, filtering, edge detection, stereo, flow, neural networks

Guest Lecturer: CSE 446 - Machine Learning *Spring 2017*
University of Washington

Taught 3 weeks of undergraduate machine learning: k-means, PCA, non-parametric models, neural networks

Teaching Assistant: CSE 446 - Machine Learning *Winter 2016*
University of Washington

TA for undergraduate machine learning including making and grading assignments, holding office hours, etc.

Talks

What Is Computer Vision? *October 2018*
Zillow AI - Seattle, Washington

Invited talk for the Seattle Deep Learning Meetup hosted by Zillow AI

Computers can see. Now what? *January 2018*
TEDx Gateway - Mumbai, India

<https://www.youtube.com/watch?v=XS2UWYuh5u0>

How computers learn to recognize objects instantly *April 2017*
TED - Vancouver BC, Canada

https://www.ted.com/talks/joseph_redmon_how_a_computer_learns_to_recognize_objects_instantly

Ridiculously fast object detection *Fall 2015*
Allen Institute for Artificial Intelligence - Seattle, Washington

Invited talk for the Allen Institute for Artificial Intelligence Scientific Advisory Board

Experience

XNOR.ai - Internship *Spring/Summer 2017*

Developed faster detection models for mobile devices, wrote and directed advertising videos, presented to VCs

Allen Institute for Artificial Intelligence - Internship *Spring/Summer 2016*
Improved object detection on small devices using binarization, model compression, and better model design

Google Brain - Internship *Summer 2014*
Worked on computer vision and object detection for real-time robotic systems

IBM Research - Internship *Summer 2011*
Worked on marketing analytics and consumer product search

NIST Center for Neutron Research - Internship *Summer 2010*
Developed a web-based data reduction pipeline for triple-axis thermal neutron spectrometry data

Service

Reviewer
ECCV 2018, CVPR 2018, ICCV 2017, ECCV 2016, CVPR 2016, ICCV 2015, CVPR 2015

Volunteer Tutor for Undergraduates *2014 - 2017*
University of Washington

Volunteer Mentor for High-School Students *2014, 2015*
Paul Allen Computing Challenge - Seattle, Washington

Volunteer Mentor for Graduate Students *2014, 2017*
University of Washington

Social Co-Chair, CSE Graduate Student Committee *2014*
University of Washington

Awards

Google Ph.D. Fellowship *2018*

Best Paper Honorable Mention *CVPR 2017*
YOLO9000: Better, Faster, Stronger

OpenCV People's Choice Award *CVPR 2016*
You Only Look Once: Unified, Real-Time Object Detection

NSF Big Data IGERT Fellowship *2013*

Fun!

DarkGo - 5 dan Go bot, 45,000+ games played against humans online
<https://online-go.com/user/view/434218>

Darknet Twitter API - Run computer vision over Twitter
<https://twitter.com/darknetforever>