

SERGEY KARAYEV

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OBJECTIVE	Develop and deploy AI systems to improve human life.
EDUCATION	University of California, Berkeley · <i>August 2009 - December 2014</i> Ph.D. Computer Science <i>Thesis Advisor: Trevor Darrell</i> University of Washington, Seattle · <i>September 2005 - June 2009</i> B.S. Computer Science & B.A. Psychology <i>Thesis Advisor: Steven Seitz</i>
EXPERIENCE	Co-founder, Director of Research <i>Gradescope, Berkeley, CA</i> <i>September 2014 - present</i> We are making the process of grading at least 10x faster using AI, in order to build the data layer for higher education and enable learners to reach their full potential. Graduate Student Researcher <i>UC Berkeley</i> <i>September 2009 - September 2014</i> Worked on hierarchical generative models, 3D perception, and applying reinforcement learning techniques to object recognition. Research Intern <i>Creative Tech. Lab at Adobe, San Francisco, CA</i> <i>Summer 2013</i> Developed a system for recognizing the style of photographs and paintings. Graduate Student Instructor <i>University of California, Berkeley</i> <i>Fall 2012, Fall 2013</i> Led section and composed exams for the CS 188 Intro to AI course. Research and Development Intern <i>Artsy, New York City, NY</i> <i>Summer 2012</i> Prototyped a system for the recognition of visual properties of artwork. Undergraduate Researcher <i>University of Washington</i> <i>October 2007 - June 2009</i> Worked on augmented reality on the iPhone and human-computer interaction via webcam. Software Development Intern <i>Zillow.com, Seattle, WA</i> <i>Summer 2008</i> Maintained, improved, and added features for a high-traffic consumer website. Research Apprentice <i>Friday Harbor Laboratories (UW)</i> <i>Spring 2006</i> Explored the distribution of neuropeptides in a sea slug central nervous system.
SKILLS	AI: Deep Learning, Computer Vision, System Deployment Scientific and data: Python, Matlab, C/C++ Web development: Ruby, JavaScript Most code is open-source at http://github.com/sergeyk Fluent in Russian.

PUBLICATIONS

Gradescope: A Fast, Flexible, and Fair System for Scalable Assessment at *ACM L@S 2017*
Arjun Singh, Sergey Karayev, Kevin Gutowski, Pieter Abbeel

Anytime Recognition of Objects and Scenes at *CVPR 2014* (oral)
Sergey Karayev, Mario Fritz, Trevor Darrell

Recognizing Image Style at *BMVC 2014*
Sergey Karayev, Matthew Trentacoste, Helen Han, Aseem Agarwala, Trevor Darrell, Aaron Hertzmann, Holger Winnemöller

Caffe: Convolutional Architecture for Fast Feature Embedding at *ACM MM 2014*
Yangqing Jia, Evan Shelhamer, Jeff Donahue, Sergey Karayev, Jonathan Long, Ross Girshick, Sergio Guadarrama, Trevor Darrell

Dynamic Feature Selection for Classification on a Budget at *ICML-W 2013*
Sergey Karayev, Mario Fritz, Trevor Darrell

A Category-Level 3-D Object Dataset: Putting the Kinect to Work at *ICCV-W 2013*
Allison Janoch, Sergey Karayev, Yangqing Jia, Jonathan T. Barron, Mario Fritz, Kate Saenko, Trevor Darrell

Timely Object Recognition at *NIPS 2012*
Sergey Karayev, Tobias Bamgartner, Mario Fritz, Trevor Darrell

3-D Object Detection Using Category and Instance-level Appearance Models at *IROS 2011*
Kate Saenko, Sergey Karayev, Yangqing Jia, Alex Shyr, Allison Janoch, Jon Long, Mario Fritz, Trevor Darrell

A Probabilistic Model for Recursive Factorized Image Features at *CVPR 2011*
Sergey Karayev, Mario Fritz, Sanja Fidler, Trevor Darrell

An Additive Latent Feature Model for Transparent Object Recognition at *NIPS 2009*
Mario Fritz, Michael Black, Gary Bradski, Sergey Karayev, Trevor Darrell

AWARDS

Mark Everingham Prize (for work on the Caffe open source software), 2017
National Defense Science and Eng. Grad. Fellowship (full tuition and stipend), 2009-2012
Mary Gates Research Scholarship (undergraduate research stipend), 2008
Microsoft Scholarship (CS department award), 2008
Honors Bordeaux Scholarship (full tuition for one year), 2008
Mary Gates Honors Scholarship (full tuition for three years), 2005-2007
Robert C. Byrd Honors Scholarship (Washington State award), 2005-2009
National Merit Scholarship (sponsored by the Boeing Company), 2005-2009
Undergraduate Academic Excellence Scholarship (UW award), 2005.