

Philipp Krähenbühl

EDUCATION

- 2009–2014 **PhD, Computer Science**, *Stanford University*, Stanford CA.
- 2007–2008 **Student Exchange, Computer Science**, *University of Washington*, Seattle WA.
- 2005–2009 **BSc, Computer Science**, *ETH Zurich*, Zurich, Switzerland.

RESEARCH AND INDUSTRY EXPERIENCE

- 2016– **Assistant Professor, Zeitlin Fellow**, *UT Austin*, Department of Computer Science.
Computer Vision and Machine Learning
- 2014–2016 **Postdoctoral Researcher**, *UC Berkeley*, with Alexei Efros and Jitendra Malik.
Computer Vision and Machine Learning
- 2009–2014 **Research Assistant**, *Stanford University*, with Vladlen Koltun.
Focus on Computer Vision and Machine Learning
- 2012,2013 **Research Internship**, *Adobe Creative Technologies Lab*.
- 2011 **Research Internship**, *Disney Research Zurich*.
- 2008 **Research Assistant**, *University of Washington*, with Zoran Popovic.
- 2006–2009 **Research Assistant**, *ETH Zurich*, with Markus Gross, Gaston Gonnet and Bertrand Meyer.

TEACHING EXPERIENCE

- Fall 2016 **Instructor**, *CS395T - Deep learning seminar*, UT Austin.
- Spring 2015 **Guest Lecture**, *CS231B: The Cutting Edge of Computer Vision*, Stanford University.

SELECT PUBLICATIONS

Peer-Reviewed Journal and Conference Publications

- [1] Jun-Yan Zhu, Philipp Krähenbühl, Eli Shechtman, and Alexei A. Efros. “**Generative Visual Manipulation on the Natural Image Manifold**”. In: (ECCV 2016). 2016.
- [2] Deepak Pathak, Philipp Krähenbühl, Jeff Donahue, Trevor Darrell, and Alyosha Efros. “**Context Encoders: Feature Learning by Inpainting**”. In: (CVPR 2016). 2016.
- [3] Tinghui Zhou, Philipp Krähenbühl, Mathieu Aubry, Qixing Huang, and Alyosha Efros. “**Learning Dense Correspondence via 3D-guided Cycle Consistency**”. In: (CVPR 2016). 2016.
- [4] Philipp Krähenbühl, Carl Doersch, Jeff Donahue, and Trevor Darrell. “**Data-dependent initializations of convolutional neural networks**”. In: (ICLR 2016). 2016.
- [5] Jun-Yan Zhu, Philipp Krähenbühl, Eli Shechtman, and Alyosha Efros. “**Learning a Discriminative Model for the Perception of Realism in Composite Images**”. In: (ICCV 2015). 2015.

- [6] Tinghui Zhou, Philipp Krähenbühl, and Alyosha Efros. “**Learning Data-driven Reflectance Priors for Intrinsic Image Decomposition**”. In: (ICCV 2015). 2015.
- [7] Deepak Pathak, Philipp Krähenbühl, and Trevor Darrell. “**Constrained Convolutional Neural Networks for Weakly Supervised Segmentation**”. In: (ICCV 2015). 2015.
- [8] Philipp Krähenbühl and Vladlen Koltun. “**Learning to propose objects**”. In: (CVPR 2015). 2015.
- [9] Philipp Krähenbühl and Vladlen Koltun. “**Geodesic Object Proposals**”. In: (ECCV 2014 (oral)). 2014.
- [11] Philipp Krähenbühl and Vladlen Koltun. “**Parameter Learning and Convergent Inference for Dense Random Fields**”. In: (ICML 2013). 2013.
- [12] Philipp Krähenbühl and Vladlen Koltun. “**Efficient Nonlocal regularization for Optical Flow**”. In: (ECCV 2012). 2012.
- [13] Federico Perazzi, Philipp Krähenbühl, Yael Pritch, and Alexander Hornung. “**Saliency Filters: Contrast Based Filtering for Salient Region Detection**”. In: (CVPR 2012). 2012.
- [14] Philipp Krähenbühl and Vladlen Koltun. “**Efficient Inference in Fully Connected CRFs with Gaussian Edge Potentials**”. In: (NIPS 2011 (best student paper)). 2011.
- [15] Sergey Levine, Philipp Krähenbühl, Sebastian Thrun, and Vladlen Koltun. “**Gesture Controllers**”. In: (SIGGRAPH 2010). 2010.
- [16] Philipp Krähenbühl, Manuel Lang, Alexander Hornung, and Markus Gross. “**Retargeting of Streaming Video**”. In: (SIGGRAPH Asia 2009). 2009.

Complete list available at www.philkr.net.

SERVICE AND AFFILIATIONS

- Area Chair International Conference on Computer Vision (ICCV): 2017
European Conference on Computer Vision (ICCV): 2016
- Speaker Tutorial on Higher Order Models and Inference Approaches, ECCV 2014
- Coach Swiss Olympiad in Informatics, 2005-2009

COLLABORATORS & OTHER AFFILIATIONS

- Graduate Advisor Koltun, Vladlen; Stanford
- Postdoctoral Sponsors Darrell, Trevor; UC-Berkeley
Efros, Alexei; UC-Berkeley
Malik, Jitendra; UC-Berkeley

HONORS AND AWARDS

- 2011 **NIPS Outstanding Student Paper Award.**
Highest award at the conference, given to 3 out of 1400 submissions.
- 2010 **Member of Stanfords Team at ACM ICPC World Finals.**

- 2005 **Silver Medal at International Olympiad in Informatics.**
- 2004,2005 **First Place at Swiss Olympiad in Informatics.**
- 2005 **Silver Medal at Swiss Mathematics Olympiad.**