
Curriculum Vitae

Leonid Pishchulin

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Research Interests

- **Computer Vision:** articulated human pose estimation, articulated people detection and tracking, 3D human shape modelling, human activity recognition, face recognition
- **Machine Learning:** deep learning, graphical models, structured prediction and learning

Education

- **Ph.D. student**, Computer Science (Jun. 2010 – Apr. 2015)
Max Planck Institute for Informatics, Saarbrücken, Germany
Thesis title: "Articulated Human Pose Estimation and People Detection in Challenging Real-World Scenarios"
Advisor: Prof. Dr. Bernt Schiele
- **M.Sc. student**, Computer Science (Oct. 2007 – Feb. 2010)
RWTH Aachen University, Aachen, Germany
Final grade: "very good"
Thesis title: "Matching Algorithms for Image Recognition"
Advisor: Prof. Dr.-Ing. Hermann Ney
- **Diploma student** (equivalent to M.Sc.), Computer Science (Sep. 2003 – Jul. 2007)
National University of Science and Technology "MISIS", Moscow, Russia
Final grade: "excellent" (with distinction)
Specialization: Automatic Control Systems

Professional Experience

- **Research Scientist**, (Apr. 2015 – present)
Amazon.com, Seattle, USA
Occupation: solving real world computer vision problems
- **Software Developer**, (Dec. 2005 – Jul. 2007)
FarmCom, Moscow, Russia
Occupation: developed automation of pharmacy business
- **Software Developer**, (Sep. 2005 – Dec. 2005)
Rigera.ru, Moscow, Russia
Occupation: developed accounting software for auto parts warehouse

Peer-Reviewed Publications

- [1] Ahmed Elhayek, Edilson de Aguiar, Arjun Jain, Jonathan Tompson, Leonid Pishchulin, Mykhaylo Andriluka, Christoph Bregler, Bernt Schiele, and Christian Theobalt. "Efficient ConvNet-based Markerless Motion Capture in General Scenes with a Low Number of Cameras". In: *CVPR'15, IEEE Conference on Computer Vision and Pattern Recognition*. 2015.
- [2] Mykhaylo Andriluka, Leonid Pishchulin, Peter Gehler, and Bernt Schiele. "Human Pose Estimation: New Benchmark and State of the Art Analysis". In: *CVPR'14, IEEE Conference on Computer Vision and Pattern Recognition*. 2014.
- [3] Leonid Pishchulin, Mykhaylo Andriluka, and Bernt Schiele. "Fine-grained Activity Recognition with Holistic and Pose based Features". In: *GCPR'14, German Conference on Pattern Recognition*. 2014.
- [4] Stefanie Wuhrer, Leonid Pishchulin, Alan Brunton, Chang Shu, and Jochen Lang. "Estimation of Human Body Shape and Posture Under Clothing". In: *Computer Vision and Image Understanding (CVIU)* (2014).
- [5] Leonid Pishchulin, Mykhaylo Andriluka, Peter Gehler, and Bernt Schiele. "Poselet Conditioned Pictorial Structures". In: *CVPR'13, IEEE Conference on Computer Vision and Pattern Recognition*. Oral. 2013.
- [6] Leonid Pishchulin, Mykhaylo Andriluka, Peter Gehler, and Bernt Schiele. "Strong Appearance and Expressive Spatial Models for Human Pose Estimation". In: *ICCV'13, IEEE International Conference on Computer Vision*. 2013.
- [7] Leonid Pishchulin, Tobias Gass, Philippe Dreuw, and Hermann Ney. "Image warping for face recognition: From local optimality towards global optimization". In: *Pattern Recognition (PR)* 45.9 (2012).
- [8] Leonid Pishchulin, Arjun Jain, Mykhaylo Andriluka, Thorsten Thormaehlen, and Bernt Schiele. "Articulated People Detection and Pose Estimation: Reshaping the Future". In: *CVPR'12, IEEE Conference on Computer Vision and Pattern Recognition*. 2012.
- [9] Tobias Gass, Leonid Pishchulin, Philippe Dreuw, and Hermann Ney. "Warp that Smile on your Face: Optimal and Smooth Deformations for Face Recognition". In: *FG'11, IEEE International Conference on Automatic Face and Gesture Recognition*. 2011.
- [10] Leonid Pishchulin, Tobias Gass, Philippe Dreuw, and Hermann Ney. "The Fast and the Flexible: Extended Pseudo Two-Dimensional Warping for Face Recognition". In: *IbPRIA'11, Iberian Conference on Pattern Recognition and Image Analysis*. 2011.
- [11] Leonid Pishchulin, Arjun Jain, Christian Wojek, Mykhaylo Andriluka, Thorsten Thormaehlen, and Bernt Schiele. "Learning People Detection Models from Few Training Samples". In: *CVPR'11, IEEE Conference on Computer Vision and Pattern Recognition*. 2011.
- [12] Leonid Pishchulin, Arjun Jain, Christian Wojek, Thorsten Thormaehlen, and Bernt Schiele. "In Good Shape: Robust People Detection based on Appearance and Shape". In: *BMVC'11, British Machine Vision Conference*. Oral. 2011.
- [13] Leonid Pishchulin. *Matching Algorithms for Image Recognition*. Master Thesis. Aachen, Germany, 2010.

Other Publications

- [14] Leonid Pishchulin, Eldar Insafutdinov, Siyu Tang, Andres Bjoern, Mykhaylo Andriluka, Peter Gehler, and Bernt Schiele. *DeepCut: Joint Subset Partition and Labeling for Multi Person Pose Estimation*. ArXiv 1511.06645. 2015.
- [15] Leonid Pishchulin, Stefanie Wuhrer, Thomas Helten, Christian Theobalt, and Bernt Schiele. *Building Statistical Shape Spaces for 3D Human Modeling*. ArXiv 1503.05860. 2015.

Invited Talks

- University of California, Berkeley, USA, 2013
- University of California, Irvine, USA, 2013
- Stanford University, USA, 2013
- Carnegie Mellon University, USA, 2014
- New York University, USA, 2014

Academic Experience

- **Teaching assistant** (Oct. 2014 – Apr. 2015)
Saarland University
Course: Probabilistic Graphical Models and their Applications
- **Research assistant** (Jan. 2010 – Jun. 2010)
RWTH Aachen University
Human Language Technology and Pattern Recognition Group
Occupation: developed image registration algorithms as a part of
European Union project QUAERO
Advisor: Prof. Dr.-Ing. Hermann Ney
- **Student assistant** (Apr. 2009 – Jan. 2010)
Human Language Technology and Pattern Recognition Group
Occupation: developed image registration algorithms
Advisor: Prof. Dr.-Ing. Hermann Ney
- **Student assistant** (Oct. 2008 – Jan. 2010)
RWTH Aachen University
Data Management and Data Exploration Group
Occupation: developed subspace clustering algorithms and quality measures,
contributed to extension of WEKA framework
Director: Univ.-Prof. Dr. rer. nat. Thomas Seidl

Awards and Scholarships

- Outstanding Reviewer Award at ECCV 2014 and CVPR 2015
- International Max Planck Research School Scholarship (2010 – 2012)
- Doctor Carl-Arthur Pastor-Foundation Scholarship (2007 – 2008, 2008 – 2009)
- MISIS Scholarship for Academic Excellence (2003 – 2007)

Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (2015)
- International Journal of Computer Vision (2012, 2015)
- Computer Vision and Image Understanding (2013 – 2015)
- ECCV 2014, CVPR 2015 (both Outstanding Reviewer Award); ICCV 2015, CVPR 2016

- ACM Transactions on Interactive Intelligent Systems (2015)

Technical Skills

- **Programming:** C/C++, Matlab, Unix/Linux shell scripting, L^AT_EX,
- **Distributed environments:** Sun Grid Engine
- **Applications:** GIT/SVN, Microsoft Office, Apple Keynote, GIMP, Apple iMovie
- **Content Management Systems:** Drupal, Typo3

Languages

- Russian (native), English (fluent), German (fluent), Japanese (basic)

References

- Available upon request