

# Andrea Vedaldi – RESUMÉ

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## CONTACT INFORMATION

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## Research

Visual recognition, image processing, machine learning, automatic reasoning, robust inference.

## Positions

**University of Oxford**, Oxford - United Kingdom

*Postdoctoral Researcher* (8/08-present),

affiliated with the Visual Geometry Group of Prof. A. Zisserman.

**University of California - Los Angeles** Los Angeles - California

*Postdoctoral Researcher* (6/08-8/08)

affiliated with the Vision Lab of Prof. S. Soatto.

## Education

**University of California - Los Angeles**, Los Angeles - California

*Doctor of Philosophy* (5/05-6/08),

Thesis: “Invariant representations and learning for computer vision”

Advisor: Prof. S. Soatto.

**University of California - Los Angeles**, Los Angeles - California

*Master in Computer Science* (7/03-5/05)

G.P.A. 4/4

**Università degli studi di Padova**, Padova - Italy

*Laurea in Ingegneria Informatica* (highest honors) (9/98-4/03)

Thesis: “Modelli stocastici per il riconoscimento di sistemi di gesti complessi”

G.P.A. 110/110 e Lode. Advisor: Prof. R. Frezza.

## Publications

A. Vedaldi and A. Zisserman, “Efficient Additive Kernels via Explicit Feature Maps”, in *Proceedings of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2010.

A. Vedaldi and A. Zisserman “Structured regression for detection with partial truncation”, in *Advances in Neural Information Processing Systems (NIPS) 22*, pp. 1928–1936, 2009

A. Vedaldi, V. Gulshan, M. Varma and A. Zisserman “Multiple Kernels for Object Detection”, in *Proceedings of the International Conference on Computer Vision (ICCV)*, 2009.

- B. Fulkerson, A. Vedaldi and S. Soatto “Class Segmentation and Object Localization with Superpixel Neighborhoods”, in *Proceedings of the International Conference on Computer Vision (ICCV)*, 2009.
- B. Fulkerson, A. Vedaldi and S. Soatto “Localizing Objects with Smart Dictionaries”, in *European Conference on Computer Vision (ECCV)*, vol. 1, pp. 179–192, 2008.
- A. Vedaldi and S. Soatto “Quick Shift and Kernel Methods for Mode Seeking”, in *European Conference on Computer Vision (ECCV)*, vol. 4, pp. 705–718, 2008.
- A. Vedaldi “Invariant Representation and Learning for Computer Vision,” in *Ph.D. Thesis, University of California at Los Angeles (UCLA)*, 2008.
- A. Vedaldi and S. Soatto, “Relaxed Matching Kernels for Object Recognition,” in *Proceedings of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2008.
- A. Vedaldi and S. Soatto, “Joint Alignment up to (Lossy) Transformations,” in *Proceedings of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2008.
- A. Vedaldi, P. Favaro, and E. Grisan, “Boosting Invariance and Efficiency in Supervised Learning,” in *Proceedings of the International Conference on Computer Vision (ICCV)*, 2007 (oral presentation).
- A. Rabinovich, A. Vedaldi, C. Galleguillos, E. Wiewiora, and S. Belongie, “Objects in Context,” in *Proceedings of the International Conference on Computer Vision (ICCV)*, 2007 (oral presentation).
- E. Jones, A. Vedaldi and S. Soatto, “Inertial structure from motion with autocalibration”, in *Proceedings of the ICCV Workshop on Dynamical Vision*, 2007.
- A. Vedaldi, G. Guidi, and S. Soatto, “Moving Forward in Structure From Motion,” in *Proceedings of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2007.
- A. Vedaldi and S. Soatto, “A Complexity-Distortion Approach to Joint Pattern Alignment,” in *Advances in Neural Information Processing Systems (NIPS) 19*, pp. 1425–1432, 2007.
- A. Vedaldi and S. Soatto, “Local Features, All Grown Up,” in *Proceedings of the IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, vol. 2, pp. 1753–1760, 2006 (oral presentation).
- A. Vedaldi and S. Soatto, “Viewpoint Induced Deformation Statistics and the Design of Viewpoint Invariant Features: Singularities and Occlusions,” in *Proceedings of the European Conference on Computer Vision (ECCV)*, vol. 2, pp. 374, 2006.
- A. Vedaldi and S. Soatto, “Features for recognition: Viewpoint invariance for non-planar scenes,” in *Proceedings of the International Conference on Computer Vision (ICCV)*, vol. 2, pp. 1474–1481, 2005 (oral presentation).
- A. Vedaldi, H. Jin, P. Favaro, and S. Soatto, “KALMANSAC: Robust filtering by consensus,” in *Proceedings of the International Conference on Computer Vision (ICCV)*, vol. 1, pp. 633–640, 2005.
- Remark.** *The major computer vision publication avenues are ICCV, ECCV, and CVPR (acceptance rates: oral < 10%, poster < 30%). CiteSeer ranks ICCV and ECCV respectively in the top 5% and 7% of all computer science journals and conferences.*

## Open-source projects

<http://www.vlfeat.org/> (library of computer vision algorithms)

<http://www.vlfeat.org/~vedaldi/code/sift.html> (implementation of the Scale Invariant Feature Transform (SIFT))

## Awards

“Outstanding Doctor of Philosophy in Computer Science,” *The Henry Samueli School of Engineering and Applied Science, University of California – Los Angeles*, 2008.

“Outstanding Master of Science in Computer Science,” *The Henry Samueli School of Engineering and Applied Science, University of California – Los Angeles, 2005.*