

Sara Vicente

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RESEARCH INTERESTS Computer vision, machine learning, MRF models, combinatorial optimization, interactive image segmentation, higher-order priors for segmentation, 3D reconstruction, non-rigid structure from motion.

EDUCATION **University College London**, London, United Kingdom.
PhD in Computer Science, April 2007 - November 2011.

- Dissertation Topic: “Global optimisation techniques for image segmentation with higher order models”;
- Supervisor: Dr. Vladimir Kolmogorov.

New University of Lisbon, Lisbon, Portugal.
Bachelor in Applied Mathematics, September 2000 - July 2004.

PROFESSIONAL EXPERIENCE **Queen Mary University of London, School of Electronic Engineering and Computer Science**, London, UK (since November 2011), *Postdoctoral Research Assistant in Computer Vision*.

Microsoft Research Cambridge, Computer Vision Group, Cambridge, UK (August 2008 - October 2008), *Research intern*, Supervisor: Dr. Carsten Rother.

European Space Operations Center, European Space Agency, Advanced Mission Concepts and Technologies Office, Darmstadt, Germany (April 2006 - March 2007), *Intern*, Supervisor: Alessandro Donati.

Everis, Lisbon, Portugal (June 2005 - March 2006), *Junior IT consultant*.

Swiss Federal Institute of Technology (ETHZ), Seminar for Applied Mathematics, Zurich, Switzerland (September 2004 to February 2005), *Intern*, Supervisor: Prof. Dr. Ralf Hiptmair.

PUBLICATIONS **Book Chapters**

S. Vicente, V. Kolmogorov, C. Rother. “Graph-cut based image segmentation with connectivity priors”. In *Markov Random Fields for Vision and Image Processing*, MIT Press, July 2011.

Refereed Conferences

S. Vicente, C. Rother, V. Kolmogorov. “Object cosegmentation”. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2011.

S. Vicente, V. Kolmogorov, C. Rother. “Cosegmentation revisited: models and optimization”. In *European Conference on Computer Vision (ECCV)*, September 2010.

S. Vicente, V. Kolmogorov, C. Rother. “Joint optimization of segmentation and appearance models”. In *IEEE International Conference on Computer Vision (ICCV)*, October 2009.

S. Vicente, V. Kolmogorov, C. Rother. “Graph cut based image segmentation with

connectivity priors". In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2008.

AWARDS AND
GRANTS

PhD Scholarship under the European PhD Scholarship Programme, **Microsoft Research Cambridge**.

Award for the best graduating student in 2003/04, **School of Sciences and Technology, New University of Lisbon**.

Award for the best graduating student of Mathematics in 2003/04, **School of Sciences and Technology, New University of Lisbon**.

INVITED TALKS

Joint optimization of segmentation and appearance models, Oxford Brookes Vision Group, UK, January 2010.

Graph cut based image segmentation with connectivity priors, HCI Colloquia, Heidelberg Collaboratory for Image Processing, Germany, June 2010.

SKILLS

Language skills: native speaker of Portuguese. Fluent in English.

Computer skills: *Operating systems:* Windows, some experience with Linux. *Programming languages:* C, C++. *Applications:* Matlab, L^AT_EX.

REFERENCES

Dr. Vladimir Kolmogorov,
Lecturer, Department of Computer Science,
University College London, London, UK.

Dr. Carsten Rother,
Researcher, Computer Vision Group,
Microsoft Research, Cambridge, UK.