

# Federica Bogo

Curriculum Vitae (Last update: October 2014)

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## Personal information

First name Federica  
Surname Bogo  
Date of birth December 12th, 1983  
Nationality Italian  
Gender Female

## Current position

2011–present **Ph.D. student in Computer Engineering.** Department of Information Engineering, University of Padova (Italy). Supervisor: E. Peserico.

2013–present **Affiliated Ph.D. student.** Perceiving Systems Department, Max Planck Institute for Intelligent Systems (Germany). Supervisors: J. Romero and M.J. Black.

Current research interests *Computer vision/Graphics.* Human body modeling, tracking, 3D mesh registration. In particular, I worked on the development of registration algorithms that exploit both 3D geometry and texture information to extract accurate appearance models. I am also interested in the segmentation and registration of medical (namely, dermatological) images [1, 2, 3, 4, 5].

Past research interests *Wireless networks.* Design and theoretical analysis of efficient routing algorithms for delay-tolerant networks [6].  
*High-performance computing and large dataset algorithms.* Development of *psort*, a C++ sorting library for large datasets on external memory [7].

## Education

2008–2010 **Master of Science in Computer Engineering**, *University of Padova.*  
*Summa cum laude.*

2005–2008 **Bachelor of Science in Computer Engineering**, *University of Padova.*  
*Summa cum laude.*

2002–2005 **Bachelor of Science in Philosophy**, *University of Padova.*  
*Summa cum laude.*

## Work experience

2010–2011 **Research assistant**, *University of Padova, Padova, Italy.*  
Research grant under the project Naevi in Silico. Development of segmentation algorithms for dermatological images.

- 2009–2010 **Software developer**, *Siav Spa*, Padova, Italy.  
Full-time employment. Development of software for Enterprise Document Management and Business Process Management (languages: C, C++).
- 2008–2009 **Software developer**, *Zucchetti Spa*, Padova, Italy.  
Full-time employment. Development of iCASE software for business applications (languages: Java).
- 2003 **Journalist**, *Corriere delle Alpi (Finogil Spa)*, Belluno, Italy.

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## Teaching experience

- 2011 **Teaching assistant**. Courses: *Introduction to computer programming*, *Software engineering*.
- 2010 **Teaching assistant**. Course: *Software engineering*.

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## Personal skills and competences

### Professional licenses

P.E. Professional Engineer since 2011.

### Languages

Italian	<b>Mother tongue</b>
English	<b>Fluent</b>
German	<b>Basic</b>
French	<b>Basic</b>

### Computer skills

Languages	C, C++, Python, Java, Perl, Matlab
OSes	Linux, Windows, Mac OS X
Libraries	OpenCV, OpenGL, Android SDK

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## Interests

Road cycling, reading, chess, mobile development.

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## Publications

- [1] F. Bogo, J. Romero, M. Loper, and M.J. Black. FAUST: Dataset and evaluation for 3D mesh registration. In *IEEE CVPR*, 2014. (Oral presentation).
- [2] F. Bogo, J. Romero, E. Peserico, and M.J. Black. Automated detection of new or evolving melanocytic lesions using a 3D body model. In *MICCAI*, 2014.
- [3] F. Peruch, F. Bogo, M. Bonazza, V. Cappelleri, and E. Peserico. Simpler, faster, more accurate melanocytic lesion segmentation through MEDS. *IEEE Transactions on Biomedical Engineering*, 61(2):557–565, February 2014.
- [4] F. Peruch, F. Bogo, M. Bonazza, M. Bressan, V. Cappelleri, and E. Peserico. Simple, fast,

- accurate melanocytic lesion segmentation in 1D colour space. In *Proc. VISAPP (1)*, pages 191–200, 2013.
- [5] F. Bogo, M. Samory, A. Belloni Fortina, S. Piaserico, and E. Peserico. Psoriasis segmentation through chromatic regions and Geometric Active Contours. In *Proc. IEEE EMBC*, pages 5388–5391, 2012.
- [6] F. Bogo and E. Peserico. Optimal throughput and delay in delay-tolerant networks with ballistic mobility. In *Proc. ACM MOBICOM*, pages 303–314, 2013.
- [7] P. Bertasi, F. Bogo, M. Bressan, and E. Peserico. psort 2011, Winner of PennySort Benchmark 2011 (<http://sortbenchmark.org>). Technical report.