

MARCO LORENZI



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ABOUT ME

I'm genuinely passionate for data analysis problems, with specific focus in the development of efficient computational and statistical methods for the spatio-temporal analysis of biomedical images and clinical data. My general scientific interests include: Machine/Statistical Learning, Signal/Image processing, Medical Imaging, Differential Geometry.

PROFESSIONAL EXPERIENCE

- 2014 - present
- Research Associate.** [Translational Imaging Group](#), University College London, UK.
Statistical modeling with Gaussian Processes, medical image processing, teaching.
- 2014 - present
- Engineering Consultant.** [INRIA Sophia Antipolis](#), France.
Data scientist for clinical trials, C++ developer.
- 2014
- Visiting postdoctoral fellow.** University College London, UK.
Machine learning in medical images.
- 2012 - 2014
- Expert Engineer.** [Asclepios Research Group](#), INRIA, Sophia Antipolis, France.
C++ developer, medical image processing.
- 2011 - 2012
- Statistical consultant.** European clinical project [Pharmacog](#), with GlaxoSmithKline.
Sample size and power analysis for clinical trials.
- 2007 - 2009
- Laboratory assistant.** IRCCS Fatebenefratelli, Brescia, Italy.
Statistical analysis in epidemiology and medical imaging, Matlab and C developer.

EDUCATION

- PhD** at University of Nice, France. 2012
Thesis title: “*Deformation based morphometry of the brain for the development of surrogate markers in Alzheimer’s disease*”.
- Vote: Mention très honorable (highest degree).
 - Field of study: Medical Imaging, Signal processing, Statistics, Computer Science.

Master's degree in Mathematics at Università degli Studi di Torino, *Italy*. 2007

- Vote: 110/110 cum laude (highest degree)
- Field of study: Algebra, Theory of Representations.

LANGUAGES

English (proficient in listening, speaking, reading and writing); **French** (proficient in listening, speaking, reading and writing); **Italian** (native speaker).

COMPUTER SKILLS

Programming: C/C++, Python, Matlab and R (proficient), SAS and SPSS (limited).

OS: Proficient in the use of Linux, working experience with MacOS and Windows.

RELEASED SOFTWARE

2013: [LCC-logDemons non-linear image registration algorithm](#) (C++, ITK and vnl libraries).

TEACHING ACTIVITY

Co-supervisor of PhD students: Sebastiano Ferraris and Jonathan Tarquino Gonzalez, (UCL, 2014-present), Bishesh Kahanal and Mehdi Hadj-Hamou (INRIA, 2012-2014).

2004-2007: Computer Science Teaching Assistant at Department of Mathematics, Università degli Studi di Torino, Italy.

EDITORIAL ACTIVITY

2014: [Editorial board member of Nature Scientific Report \(Neurology Panel\)](#).

INVITED TALKS

2012: Workshop on Geometry and Statistics in Bioimaging: Manifolds and Stratified Spaces. Center for Stochastic Geometry and Advanced Bioimaging, Sonderborg, Denmark.

2011: Workshop on Shape and Size in Medicine. University of Milan, Italy.

HONORS AND AWARDS

2015: Official UCL nominee for participating to The Global Young Scientists Summit 2016, Singapore University of Technology and Design.

2015: Honorary Mention at 2015 ERCIM Cor Baayen Award (promising young researcher in computer science and applied mathematics).

2012-13: 'Travel Fellowship', Alzheimer's Association International Conference.

2011: Honorable Mention for the Erbsmann Award, at Information Processing in Medical Imaging International Conference (IPMI).

2010: Best oral presentation award at Spatio-Temporal Image Analysis MICCAI workshop

PUBLICATIONS

Author of 12 articles published in peer-reviewed scientific journals, 1 book chapter, and 15 papers presented at international conferences (339 citations on Nov 2015, [Google scholar](#)).