Alexis Zubiolo

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Ⓢ alexis.zubiolo • Nationality: French

Education

University of Nice Sophia Antipolis – INRIA – I3S Laboratory   **Nice, France**
Ph.D. in Machine Learning   *2012 – 2015 (expected)*
Automatic classification of biological data using Machine Learning

National Polytechnic Institute of Toulouse – ENSEEIHT   **Toulouse, France**
M.Sc. and M.Eng. in Applied Mathematics and Computer Science   *2009 – 2012*
Specialization in applied mathematics and multimedia (image, video and signal processing)

Summer/Spring Schools

École Normale Supérieure de Paris   **Paris, France**
ENS/INRIA Visual Recognition and Machine Learning Summer School   *July 2013*

École de printemps "Nouvelles tendances en vision par ordinateur"   **Cabrerets, France**
CNRS Spring School in Computer Vision   *May 2013*

Professional Experience

Research

INRIA – I3S   **Sophia Antipolis, France**
Research Internship   *March – September 2012*
Classification of cells using multiclass Support Vector Machines and Kernel Methods

IRIT – ENSEEIHT   **Toulouse, France**
Engineering School Project   *January – March 2012*
Team leader of a research project in 3D Building reconstruction using Graph Cuts

IRIT   **Toulouse, France**
Research Internship   *July – September 2011*
Automatic lip-reading project using Active Shape Models

Teaching

University of Nice-Sophia Antipolis   **Nice, France**
Teaching Assistant (66 hours)   *2014 – 2015*
- Introduction to Computer Science (18 hours)
- Web programming (48 hours)

University of Nice-Sophia Antipolis   **Nice, France**
Teaching Assistant (66 hours)   *2013 – 2014*
- Introduction to Computer Science (36 hours)
- Web Programming (12 hours)
- Object-Oriented Programming with Python (18 hours)

University of Nice-Sophia Antipolis – Polytech Nice-Sophia   **Nice – Sophia Antipolis, France**
Teaching Assistant (73 hours)   *2012 – 2013*
- Introduction to Computer Science (21 hours)
- Operating Systems (42 hours)
- Image Processing (10 hours)

Skills

Mathematics: Machine Learning, Statistics, Data Mining, Optimization, Graph Theory, Image and Video Processing, Computer Vision

Programming: Matlab, Python, C/C++, R, Shell, LaTeX

Operating Systems: UNIX, Microsoft Windows

Multidisciplinary: Extended experience interacting with people from a variety of fields (*e.g.* Biologists and Medical Doctors)

Languages

French: Fluent   *Native speaker*

English: Fluent

Spanish: Advanced

Russian: Beginner   *Started learning the language in January 2014*

Publications

Conferences..

○ **Alexis Zubiolo**, Barbara André, Éric Debreuve and Grégoire Malandain: *A Recursive Approach For Multiclass Support Vector Machine: Application to Automatic Classification of Endomicroscopic Videos*. International Conference on Computer Vision Theory and Applications (VISAPP), Lisbon, Portugal, 2014

○ **Alexis Zubiolo**, Kawssar Harb, Michèle Studer, Éric Debreuve, Xavier Descombes *Morphological Analysis and Feature Extraction of Neurons from Mouse Cortices Multiscale 3D Microscopic Images*. International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Milano, Italy, 2015

○ **Alexis Zubiolo**, Kawssar Harb, Michèle Studer, Éric Debreuve, Xavier Descombes: *Comment Retrouver une Constellation dans la Galaxie ?* Colloque GRETSI, Lyon, France, 2015

Workshops..

○ **Alexis Zubiolo**, Kawssar Harb, Nikita Lukianets, Franck Grammont, Michèle Studer, Éric Debreuve and Xavier Descombes: *Towards Neuron Classification From 3D Confocal Microscopic Images*. SIGNALIFE Workshop on Cell Signaling, Nice, France, 2014

○ Christian Alfano, Kawssar Harb, Elia Magrinelli, Nikita Lukianets, **Alexis Zubiolo**, Celine Nicolas, Éric Debreuve, Guillaume Sandoz, Xavier Descombes, Franck Grammont and Michèle Studer: *Concomitant expression of subcerebral- and callosal-specific genes defines a deep layer cell population in the postnatal mouse neocortex*. Society for Neuroscience, Washington DC., USA, 2014

Miscellaneous

Sports: Gymnastics, Hiking and Rugby

Travels: Europe and Latin America

Reading: French, English and Spanish literature