

Alexis Zubiolo

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Professional Experience

Industry.....

Adcash **Sofia, Bulgaria**
Data Science Team Lead
October 2016 – present
Leading the Data Science team

Data Scientist **January – September 2016**
Research and development in online advertising

- Click and conversion prediction
- Exploration-exploitation
- Numerical optimization

Academic 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.....

STEP Computer Academy **Sofia, Bulgaria**
Lecturer
2016 – present

- Introduction to Machine Learning (15 hours)

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 area, France**
Teaching Assistant (73 hours)
2012 – 2013

- Introduction to Computer Science (21 hours)
- Operating Systems (42 hours)
- Image Processing (10 hours)

Education

University of Nice Sophia Antipolis – INRIA – I3S Laboratory

Nice, France

Ph.D. in Machine Learning

2012 – 2015

Automatic classification of biomedical 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

Skills

Mathematics: Machine Learning, Statistics, Optimization, Image and Video Processing, Computer Vision

Programming: Python (sk-learn, NumPy), Scala (Spark, Breeze), Java, Matlab, SQL, \LaTeX

Operating Systems: UNIX, Microsoft Windows

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

Languages

French: Fluent

Native speaker

English: Fluent

Spanish: Advanced

Bulgarian: Intermediate

Currently living in Bulgaria and learning the language

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
- **Alexis Zubiolo**, Éric Debreuve, Damien Ambrosetti, Philippe Pognonec, Xavier Descombes: *Is the vascular network discriminant enough to classify renal cell carcinoma?* International Workshop on Content-Based Multimedia Indexing (CBMI), Bucharest, Romania, 2016

Workshops.....

- o **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
- o 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: Weightlifting, Gymnastics, Hiking and Rugby

Travels: Europe and Latin America

Reading: French, English and Spanish literature

Volunteering: Member *Sofia accueil*, an association in charge of helping French speaking people in Sofia. Organization of social events and trips.