

# Alexis Zubiolo

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## Professional Experience

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### Industry.....

<b>Adcash</b>	<b>Sofia, Bulgaria</b>
<i>Data Science Team Lead</i>	<i>October 2016 – present</i>
Leading the Data Science team	
<i>Data Scientist</i>	<i>January – September 2016</i>
Research and development in online advertising	
○ Click and conversion prediction	
○ Exploration-exploitation	
○ Numerical optimization	

### Academic research.....

<b>INRIA – I3S</b>	<b>Sophia Antipolis, France</b>
<i>Research Internship</i>	<i>March – September 2012</i>
Classification of cells using multiclass Support Vector Machines and Kernel Methods	
<b>IRIT – ENSEEIHT</b>	<b>Toulouse, France</b>
<i>Engineering School Project</i>	<i>January – March 2012</i>
Team leader of a research project in 3D Building reconstruction using Graph Cuts	
<b>IRIT</b>	<b>Toulouse, France</b>
<i>Research Internship</i>	<i>July – September 2011</i>
Automatic lip-reading project using Active Shape Models	

### Teaching.....

<b>STEP Computer Academy</b>	<b>Sofia, Bulgaria</b>
<i>Lecturer</i>	<i>2016 – present</i>
○ Introduction to Machine Learning (15 hours)	
<b>University of Nice-Sophia Antipolis</b>	<b>Nice, France</b>
<i>Teaching Assistant (66 hours)</i>	<i>2014 – 2015</i>
○ Introduction to Computer Science (18 hours)	
○ Web programming (48 hours)	
<b>University of Nice-Sophia Antipolis</b>	<b>Nice, France</b>
<i>Teaching Assistant (66 hours)</i>	<i>2013 – 2014</i>
○ Introduction to Computer Science (36 hours)	
○ Web Programming (12 hours)	
○ Object-Oriented Programming with Python (18 hours)	
<b>University of Nice-Sophia Antipolis – Polytech Nice-Sophia</b>	<b>Nice area, France</b>
<i>Teaching Assistant (73 hours)</i>	<i>2012 – 2013</i>
○ Introduction to Computer Science (21 hours)	
○ Operating Systems (42 hours)	
○ Image Processing (10 hours)	

## Education

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### 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

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

**Programming:** Python (sk-learn, NumPy), Scala (Spark, Breeze), Java, Matlab, SQL,  $\text{\LaTeX}$

**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

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**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

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### 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.....

- **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

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**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.