

# Alexis Zubiolo

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## Professional Experience

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### Industry.....

#### HyperScience

*Machine Learning Engineer*

**Sofia, Bulgaria**

*June 2017 – October 2017*

- Page classification
- Handwritten and printed text recognition

#### Adcash

*Data Science Team Lead*

**Sofia, Bulgaria**

*October 2016 – June 2017*

- Lead projects involving a team of 7 people
- Define priorities and design specifications
- Interact with and report to stakeholders

*Data Scientist*

*January – September 2016*

- Click and conversion prediction
- Exploration-exploitation

### Teaching.....

#### STEP Computer Academy

*Lecturer*

**Sofia, Bulgaria**

*October 2016 – April 2017*

- Machine Learning from Scratch (January – April 2017, 15 hours)
- Introduction to Machine Learning (October – December 2016, 15 hours)

#### University of Nice-Sophia Antipolis – Polytech Nice-Sophia

**Nice area, France**

*Teaching Assistant (205 hours)*

*2012 – 2015*

- Introduction to Computer Science (75 hours)
- Operating Systems (42 hours)
- Image Processing (10 hours)
- Web programming (60 hours)
- Object-Oriented Programming with Python (18 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)

## Skills

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

**Programming:** Python (sk-learn, NumPy, TensorFlow, Django), Scala (Spark, Breeze), Java, Matlab

**Multidisciplinary:** Experience interacting with professionals from a variety of fields (Biologists, Medical Doctors, Sales and Marketing managers)

## Languages

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**French:** Native

**English:** Fluent

**Spanish:** Advanced

**Bulgarian:** Intermediate

**Russian:** Beginner

## Publications

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### Conferences.....

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

### 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