Alexis Zubiolo

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🅢 alexis.zubiolo   •   Nationality: French

Professional Experience

Industry

HyperScience   **Sofia, Bulgaria**
Machine Learning Engineer   *June 2017 – present*
- Handwritten and printed text recognition
- Duplicated page detection

Adcash   **Sofia, Bulgaria**
Data Science Team Lead   *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   **Sofia, Bulgaria**
Lecturer   *2016 – present*
- Machine Learning from Scratch (Jan-Apr 2017, 15 hours)
- Introduction to Machine Learning (Oct-Dec 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

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

Mathematics: Machine Learning, Statistics, Optimization, Image and Video Processing, Computer Vision
Programming: Python (sk-learn, NumPy, TensorFlow), Scala (Spark, Breeze), Java, Matlab, SQL, bash
Multidisciplinary: Extended experience interacting with professionals from a variety of fields (Biologists, Medical Doctors, Sales and Marketing managers)

Languages

French: Native
English: Fluent
Spanish: Advanced
Bulgarian: Intermediate
Russian: Beginner

Publications

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