

Alexandre ZOUAOU



 26 March 1995
 France
 (+33) 06 65 50 71 50
 alexandre.zouaoui@free.fr

Languages

French
Monther tongue

English
Fluent, C1
115 out of 120 TOEFL iBT

German
Good, B2
Goethe-Institut Certification

Interests

Triathlon

Machine Learning

Python

Linux

Energy

PhD Candidate

October 2020

Education

2018-2019	Master 2 MVA (Mathématiques, Vision, Apprentissage) Data: <i>Object Recognition and Computer Vision, Image processing, Biostatistics</i> Learning: <i>Reinforcement L, (Advanced) Deep L., Mathematical Foundations of Data Science, Probabilistic Graphical Models, Kernel Methods, Distributed Optimization</i>	ENS Cachan
2015-2019	Master in Computer Science Engineering Data Science: <i>Advanced Statistics, Machine Learning, Optimization, Databases</i> Networks: <i>Mobile telecommunication systems, TCP/IP stack, Graph theory, Information theory, Queues theory</i>	Télécom ParisTech
2013-2015	Preparation of Entrance Exam Maths and Physics major	Lycée Sainte-Geneviève
2010-2013	Highschool Scientific Baccalaureate: 18.8/20	Lycée Saint-Michel (Saint-Étienne)

Work Experience

2020 (9 mths.)	Research Engineer at INRIA Thoth System Administrator on Thoth resource cluster. Research: Project on Deep Sparse Coding Models for Image Classification.	Grenoble
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Internships

2019 (4 mths.)	Computer Vision Intern at Naver Labs Europe Developed an attribute prediction model on urban outdoor scenes that handles multiple store fronts using a <i>listwise</i> ranking approach coupled with a semantic segmentation loss. ICCV19 reviewer.	Grenoble
2018 (3 mths.)	Machine Learning Intern at Uizard Technologies Developed and deployed an image upload filter model Designed performance tests on the entire processing pipeline Research: Multi-Objective Learning applied to Object Recognition	Copenhagen
2017 (6 mths.)	Data Scientist Intern at STMicroelectronics Improved supply chain indicators using Machine Learning: data pipeline, benchmarking, prototyping, monitoring and deployment in an international culture	Singapore

Student Projects

2018-2019	Run the Neural Baby Talk approach to image captioning on the UnRel dataset in Object Recognition and Computer Vision
2018-2019	Implementation of the <i>ranVGG</i> method for Random Weights Texture Synthesis in Image processing
2018-2019	Review on the Alternating Descent Conditional Gradient method in Mathematical Foundations of Data Science
2018-2019	Review on curiosity-driven exploration in Reinforcement Learning
2017	Explore Reddit <i>subreddits</i> structure using Graph Theory tools
2016	Machine Learning research paper implementation: <i>Classification models transfer method based on Kolmogorov's complexity</i>
2015	Mini-services Android application prototype (food rating and events)
2015	WordPress blog on the engineer past and future roles

Skills

Development	Python and Linux savvy user Libraries: <i>PyTorch, scikit-learn, keras, pandas, altair, networkX</i> Machine Learning practice: <i>Job interviews and Kaggle data challenges</i> Personal use: <i>diet, weather, finance and pollution monitoring</i>
Management	Project management tools Git, Github, Amazon Web Services, \LaTeX