

Alexandre Zouaoui

PhD Student

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Education

- 2020 – Now | **PhD, Université Grenoble Alpes, Inria**
PhD in Computer Science on Efficient Algorithms for Hyperspectral Image Processing
Supervisors: Julien Mairal, Jocelyn Chanussot and Behnood Rasti
- 2018 – 2019 | **MVA, ENS Paris-Saclay**
Master of Research in Mathematics, Vision and Learning
- 2015 – 2019 | **Engineering School, Télécom Paris**
Master in Computer Science Engineering
Specializations: Data Science and Networks
- 2013 – 2015 | **Preparation of Engineering School Entrance Exam, Lycée Sainte-Geneviève**
Major in Maths and Physics (MPSI, MP)

Work Experience

- Dec 2019 – Sep 2020 | **Inria Thoth, Grenoble**
Research Engineer
- System administrator on Thoth computing resources cluster.
 - *Research:* Project on deep sparse coding models for natural images classification.

Internships

- Apr 2019 – Aug 2019 | **Naver Labs Europe, Grenoble**
Computer Vision Intern
- Developed an attribute prediction model on urban outdoor store fronts scenes.
- Jun 2018 – Sep 2018 | **Uizard Technologies, Copenhagen**
Machine Learning Intern
- Developed and deployed an image upload filter model.
 - Designed performance tests on the entire processing pipeline.
- Sep 2017 – Mar 2018 | **STMicroelectronics, Singapore**
Data Science Intern
- Improved supply chain indicators using a machine learning model.

Publications

- 2023 | 1. Rasti, B., **Zouaoui, A.**, Mairal, J. & Chanussot, J. SUnAA: Sparse Unmixing using Archetypal Analysis. *IEEE Geoscience and Remote Sensing Letters* (2023).
- 2022 | 2. **Zouaoui, A.**, Muhawenayo, G., Rasti, B., Chanussot, J. & Mairal, J. Entropic descent archetypal analysis for blind hyperspectral unmixing. *arXiv preprint arXiv:2209.11002* (2022).
- 2021 | 3. Bodrito, T., **Zouaoui, A.**, Chanussot, J. & Mairal, J. A trainable spectral-spatial sparse coding model for hyperspectral image restoration. *Adv. in Neural Information Processing Systems (NeurIPS)* **34**, 5430–5442 (2021).