Abdelazyz RKHISS

*Image and signal processing,
deep learning*

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Education

2023–2026	**Ph.D. : Signal Image Speech Telecoms**, *GIPSA-Lab, Grenoble INP, CIFRE thesis with Engie, In progress*
2021–2023	**Master's in Business Intelligence and Smart Vision**, *University USMBA, Fès, End-of-study internship at ENGIE Green, With honors*
2018–2021	**Bachelor's in Fundamental Mathematics, Computer Science and Applications**, *University FPO, Ouarzazate, End-of-study internship in Computer Vision, With honors*
2017–2018	**Mathematics for Technologies**, *National University of Kharkiv, Kharkiv, Left*
2016–2017	**High School Diploma in Mathematical Sciences**, *Lycée Dadès, Boumalne, Good*

Communications and Publications

Impact of environmental data on wind turbine noise level estimation
International Conference on wind turbine noise, Copenhagen, june 2025.

Constructing wind turbine noise spectrograms using deep learning : contribution of environmental data
Congrès Français d'Acoustique, Paris, April 2025.

Automatic estimation of wind turbine noise with recurrent neural networks
International Conference Inter-Noise, Nantes, August 2024.

Research Experience

03/2023 – 08/2023	**Research Internship**, *ENGIE Green*, Lyon — Acoustic signal processing. — Synthesis of wind turbine noise and dataset creation. — Deep learning model training, evaluation, and visualization.
12/2020 – 06/2021	**End-of-Study Internship**, *FPO*, Ouarzazate — Introduction to medical imaging, image manipulation and processing. — Built a convolutional neural network model for classification.

Skills

Mathematics	General math, Probability, Statistics, Analysis & Algebra
Programming Languages	C, Matlab, Python, Java, JavaEE
Tools & Libraries	Pandas, Numpy, PyTorch, TensorFlow, Scipy, scikit-learn
AI & Machine Learning	K-Means, KNN, SVM, RL, Naïve Bayes, Neural Networks
Business Intelligence	MDX, Pentaho, Microsoft SQL Server
Relational Databases	Oracle Database, SQL
Video Analysis	SIFT, GMM, Yolo, RCNN, basics of Roboflow framework

Languages

Amazigh (native), English (B2 : Cambridge language test), French (fluent), Arabic (fluent)

University Projects

Image & signal processing	Mathematics and algorithms for image and signal processing
Matlab GUI	Developed a Matlab application for image processing
Computer Graphics	Created and animated 3D shapes using C
Big Data	Analyzed Tweets using KAFKA, Python, and ELASTICSEARCH
Video Analysis	Object detection methods
Data Mining	Basic mathematical models, data and text mining for natural language processing
Image Segmentation & Mining	Developed a Deep Learning model for Medical Imaging Analysis

Teaching and extracurricular Activities

2025	Professor for high school students 'Armé de Salut'
2024	part-time teacher at the University of Grenoble Alpes
2023	Member of IAESTE France association
2019	Volunteer at GHIRASS orphanage center : Taught Mathematics, children's animator
2018	Member of ENACTUS Morocco Club : IT Assistant, Member of Management Team

Interests

Hobbies	Chess, Photography, Football, Swimming

References

Gabriel VASILE	gabriel.vasile@cnrs.fr – Researcher, CNRS
Colin LE BOURDAT	colin.lebourdat@engie.com – Manager, ENGIE Green Acoustics R&D
Julien MAILLARD	julien.maillard@CSTB.fr – Research Engineer, CSTB Acoustics & Vibration