

Xuan Huy NGUYEN

PhD Researcher

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EXPERIENCES

PhD Researcher

ONERA - DEMR

 October 2024 – Now  Palaiseau, FR

Self-supervised Anomaly Detection in complex-valued SAR imaging

Research Engineer

CEA Tech - PIMS

 October 2023 – Now  Pessac, FR

Research and develop Computer Vision algorithms for industrial applications

AI Scientist

Torus AI

 December 2022 – September 2023  Toulouse, FR

Research and Develop AI-based algorithms for skin health and skin diseases

AI Project Manager - Internship


THALES Digital Identity & Security, Identity & Biometric Solutions

 March – August 2022  La Ciotat et Gémenos, FR

Computer Vision applied to Biometrics: Facial Recognition and Contactless Digital Fingerprint

Computer Vision Engineer - Internship

LCDC Telecoms SA

 Sept 2020 – Jan 2021  Morsang-sur-Seine, FR

Control a stabilized VSAT antenna

EDUCATION

PhD Student

CentraleSupélec - SONDRALaboratory

 2024 – 2027  Gif-sur-Yvettes, FR

Engineering Degree

INSA Hauts-de-France

 2019 – 2022  Valenciennes, FR

Industrial Informatics and Engineering

Preparatory Classes PCSI - PSI

Hoche & Jules Ferry High School

 2017 – 2019  Versailles, FR

TECHNICAL SKILLS

AI

- SAR Image processing
- Multispectral and Hyperspectral imaging
- Image classification and segmentation
- Object detections algorithms
- Image translations and GANs
- Embedded GPU Jetson NVIDIA

Image database management

- Build and manage structured / unstructured database
- Test and validation support

Tools

- Python, C++, Qt: clear code structure, OOP
- Computer Vision libraries: OpenCV, Pillow, FFmpeg
- AI & Data Science: Pytorch, MONAI, Hugging-face, Timm, Tensorflow, pandas, scikit-learn, seaborn, numpy, matplotlib, streamlit
- Familiar with Slurm and Git versioning

SOFT SKILLS

- Problem solving
- Curiosity
- Motivated
- Active listening
- Responsible

LANGUAGES

Vietnamese Native

French Bilingual

English Professional - TOEIC 850

INTEREST



Photography

Landscape, Cityscape, Portrait, Gears and Techniques



Fitness

Physical Exercises, Nutritions and Self discipline



Volunteering

Mentor at the Article1 association, helping young people find their bearings and support them in their professional lives