

Xuan Huy NGUYEN

PhD Student - Computer Vision Engineer

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EXPERIENCES

PhD Student

CentraleSupélec - ONERA - SONDRALab

📅 October 2024 – Now 📍 Gif-sur-Yvettes, Palaiseau, FR

Self-Supervised Anomaly Detection in complex-valued SAR imaging

Research Engineer

CEA Tech - PIMS

📅 October 2023 – October 2024 📍 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

LCDCTelecoms SA

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

Control a stabilized VSAT antenna

EDUCATION

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, Nutrition and Self discipline

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