

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

LCDC Telecoms 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
- Web development (Frontend): HTML, CSS, JavaScript
- Computer Vision libraries: OpenCV, Pillow, FFmpeg
- AI & Data Science: Pytorch, MONAI, Hugging-face, Timm, JAX, 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