

# 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 – 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

### 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 librairies: 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