

# Xuan Huy NGUYEN

## PhD Student - Computer Vision Engineer

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## EXPERIENCES

### PhD Student

#### CentraleSupélec - ONERA - SONDRA Lab

📅 October 2024 – Now     📍 Gif-sur-Yvette, 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