

Minh Hai NGUYEN

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I am a PhD student in MAMBO team at Université de Toulouse (expected graduation: December 2026), advised by Prof. Pierre Weiss and Prof. Edouard Pauwels. My research focuses on inverse problems in imaging with applications to microscopy.

EDUCATION

PhD in Applied Mathematics

[Toulouse University, France](#)

Advised by Prof. Pierre Weiss and Prof. Edouard Pauwels

Research topics: Inverse Problems in Imaging, applications to Microscopy

2023 -

Master of Engineering in Applied Mathematics

[INSA Toulouse, France](#)

Major in AI / Data Science

(*Location: 2018-2020 in Vietnam and 2020-2023 in France)

2018 - 2023

EXPERIENCE

Research Engineer

[Agenium Space](#)

Correcting micro-vibrations in satellite imaging with pushbroom cameras.

Dec. 2022 - Sept. 2023

Research Intern

[Institut Mathématiques de Toulouse](#)

Product-convolution neural networks: applications to image deblurring with space-varying blurs.

Jun. 2022 - Sept. 2022

PUBLICATIONS

- [1] M. H. Nguyen, F. de Vieilleville, and P. Weiss. "DeepVibes: Correcting Microvibrations in Satellite Imaging With Pushbroom Cameras". In: *IEEE Transactions on Geoscience and Remote Sensing* 62 (2024), pp. 1–9.

LANGUAGE

English: fluent

French: fluent

Vietnamese: native

PROGRAMMING LANGUAGE

Python (advanced): PyTorch (DDP, AMP)

C/C++ (intermediate)

OTHER SERVICES

Open source project

DeepInverse:

[Github Repository](#)

PyTorch library for solving imaging inverse problems using deep learning

Teaching

- Signal Processing (1st Master level) at INSA Toulouse, in 2024.
- Stochastic Optimization and Learning (1st Master level) at INSA Toulouse / ENSEEIHT, in 2024.