

Personal

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Languages

French	Native
Anglais	C2
Espagnol	B2

Wauquiez Mathis

Passionate about generative models, 2D/3D computer vision, and deep learning, I am pursuing a Research Master's in **Mathematics, Vision, and Learning (MVA)** at **École Normale Supérieure Paris-Saclay**, alongside an **engineering degree** at **École des Ponts ParisTech**. I am looking for a **4-5 month research internship** starting in **October 2025**, as part of the final requirements of my studies. For more information, please visit my academic page: [mathis-wauquiez.github.io](https://mathis-wauquiez.github.io)

Education and Qualifications

<b>MVA - ENS Paris-Saclay</b> <i>Second-Year Master's in Mathematics &amp; AI, Paris</i>	Sep 2024 - Present
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Double degree at École Normale Supérieure Paris-Saclay, in the highly selective MVA Master's program. I am specialized in computer vision (2D/3D) and generative models, and follow courses about deep learning and its practice, computer vision, inverse problems, geometry processing and geometric deep learning.

<b>École des Ponts Paristech</b> <i>Engineering degree, Champs-sur-Marne</i>	Aug 2022 - Present
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Top-tier French engineering school. Specialization in Mathematical Engineering & Informatics, emphasizing advanced mathematical modeling, machine learning, optimization, computer vision, applied mathematics, and programming skills.

<b>CPGE (Preparatory Classes for Grandes Écoles)</b> <i>Lycée Gustave Eiffel, Armentières</i>	Sep 2020 - Jul 2022
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French Preparatory Classes for Grandes Écoles. This highly intensive program not only developed my analytical thinking, but also greatly improved my learning skills by mastering multiple STEM domains. Ranked 26th nationwide in the competitive entrance exams, I gained a strong problem-solving mindset and the ability to thrive under pressure.

Work experience

<b>Research Internship</b> <i>Télécom Paris</i>	May 2025 - Sep 2025
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Ongoing research internship in the IMAGES team at Telecom Paris, supervised by Yann Gousseau and Alasdair Newson. My goal is to study the use of flow matching techniques for image inpainting.

<b>Research Internship</b> <i>GRASP Earth, Lille</i>	Jun 2024 - Sep 2024
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- Processed and clustered several years of satellite imagery.
- Built an unsupervised pipeline using VAE-based representations.
- Collaborated with research scientists on model evaluation and result interpretation.
- Gained practical insight into the organization and dynamics of scientific research teams.

<b>Worker Internship</b> <i>Stellantis, Valenciennes</i>	Jun 2023 - Jul 2023
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Integrated two teams in an automotive factory: production line operators and their supervisors. Developed a strong understanding of team dynamics and management.

<b>Receptionist</b> <i>Société Générale, Armentières</i>	Aug 2021 - Aug 2021
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- Assisted with client reception and basic administrative procedures and provided first-level support and guidance to customers.

Certificates

## Technical Skills

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Python, PyTorch, PyTorch-Lightning, Hydra, OpenCV, NumPy, Scikit-learn  
Diffusion Models, Flow Matching, GANs, VAEs, Optimization