

Freek Klabbers

Master AI & Engineering Systems

Scientific Machine Learning Engineer | Physicist



About me

My interest lies in combining my strong domain knowledge with AI and other data-driven methods. During my master's, I am part of the 'Science and discovery' track, which specialises in combining physics and AI.

One example is my predictive maintenance project at Canon, where I used Physics knowledge in the predictions of pump lifetimes.

personal

Freek Klabbers
nationality: Dutch
born in: 2002

Areas of specialization

Physics • Machine Learning
• R&D • Physics informed AI

Skills

- Research & Development
- (Applied) Physics
- Data Science and Machine Learning
- Object Oriented Programming (OOP)
- Working in a digital office space and online communications
- Solution-oriented mindset



EXPERIENCES

2025

MSc Thesis: Physics Informed machine learning for ALD

FULL-TIME · Eindhoven

Applying physics-informed machine learning and Bayesian inference methods to do parameter estimation with uncertainty. The goal is to infer the hidden parameters that determine the process with uncertainty. These parameters can then be used to optimise the process and model it better.



2025

Chair and co-founder of Master Association Mimir

CHAIRMAN · Eindhoven

During my Master AI&ES I co-founded an study association for the Master. I learned a lot about project management, taking initiative and reaching the right people during this period. During this year we managed to go from 0 to over 110 members



23-24

Working Student Technical Services

PART-TIME · Venlo

After my graduation internship I have been hired to work part-time on my predictive maintenance project. During this time I also did some other projects like implementing SS, Power BI dashboard data management and updating the Quality Management System conform ISO 9001.



22-23

Graduation Intern Predictive Maintenance

FULL-TIME · Venlo

During my graduation internship I made a pilot for a Predictive maintenance system using production data implemented with Python. In this project I got the chance to combine my technical knowledge with data science and machine learning. My system was able to accurately predict failures of equipment before they happened, saving a predicted 150 hours production loss yearly. I got rewarded with an average grade of 9 for this graduation internship.



21-22

Intern LabVIEW Programming

FULL-TIME · Weert

During my internship, we designed, built and coded a Biometric bodysuit which can track the arm location and orientation of the wearer. During this I got a taste for Software development, LabVIEW, Python, and Object Oriented Programming.



DEGREES

2023–2026

AI & Engineering Systems

MSc · TU/e

2019–2023

Applied Physics

BSc · Fontys

PROGRAMMING

Python



LabVIEW



MATLAB



R



LANGUAGES

Dutch
English

C2

mother tongue

C2

Cambridge Certificate

CERTIFICATES

2023 "Implementing a Lakehouse using Microsoft Fabric", at: Microsoft Learn.

2025 Greencomp at Engineers4Europe