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

LinkedIn
GitHub

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 5S, 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	C2	mother tongue
English	C2	Cambridge Certificate

Certificates

2023 "Implementing a Lakehouse using Microsoft Fabric", at: *Microsoft Learn*.
2025 Greencomp at *Engineers4Europe*

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