PIM NELISSEN

Computational Physics student in Nuclear Science

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EDUCATION

M.Sc. Computational Science, Physics

Lund University

Sep 2024 – ***exp. Jun 2026*** | Lund, Sweden

- My thesis consists of extending work on Bayesian computational code for localization of multiple lost radiation sources using mobile gamma spectroscopy data
- Completed a large independent research project, developing an advanced statistical model for radioactivity in seaweed as a response to seawater discharge

ODE/PDEs | Radioecology | Reactor physics | Dataviz | Time series analysis | Machine learning

B.Sc. Physics

Lund University

Sep 2020 – Jun 2024 | Lund, Sweden

- My thesis involved machine learning applied to Monte Carlo simulated data of radioactive decays from superheavy nuclei.

Monte Carlo | Nuclear Physics | Research skills

EXPERIENCE

Teaching assistant

Lund University

Sep 2025 – Dec 2025 | Lund, Sweden

- Assisting the first-year undergraduate students in mathematics and physics in the introductory scientific programming course "Computational Programming with Python".

Sales

Jumbo Supermarkten

Nov 2015 – Aug 2020 | Oss, Netherlands

- Promoted in 2018 to specialist, which involved leadership in small teams.

VOLUNTEERING

Digital Literacy Instructor

City Library Oss

Sep 2013 –Jun 2014 | Oss, Netherlands

- I hosted an education program for promoting digital skills (e.g. use email, search and save information) within the local community, particularly aimed at the elderly.

SUMMER SCHOOLS

ENEN# Nuclear Summer School

Budapest University of Tech. and Econ. (BME)

Sep 2025 | Budapest, Hungary

- An intensive 1-week course on reactor physics at the BME training reactor. Activities included hands-on experiments and analysis of obtained data. The course was organised under the ENEN# program.

HIGHLIGHTED COURSES

Computational Reactor Physics
Uppsala University

Core Modeling For Core Design
GRE@T-PIONEeR

Reproducible data science and statistical learning
Lund University

ONLINE WORKSHOPS

HPC with Python
Jülich Supercomputing Centre (Jun 2025)

Intermediate Bash and Linux
HPC2N, Umeå University (Jun 2025)

Git, code testing and documentation
EPFL, CECAM, BioNT (Feb 2025)

TECHNICAL SKILLS

Python | Linux | R (programming) | Git | MATLAB | C# | TensorFlow | PyTorch | SQL

LANGUAGES

Dutch (C2, Native)
English (C1, IELTS Certified)
German (A2)
Swedish (A2)

PUBLICATIONS

Bachelor's Thesis

- P. Nelissen, *Scrutinizing the Schmidt Test and Exploring the Use of Machine Learning for Statistical Assessment of Radioactive Decay Chains...* Lund University Publications, 2024. [Online]. Available: http://lup.lub.lu.se/student-papers/record/9168893.