

PIM NELISSEN

Computational Physics student in Nuclear Science

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Lund, Sweden

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pim-nelissen

pim-n

EDUCATION

M.Sc. Computational Science, Physics

Lund University

Sep 2024 – exp. Jun 2026

Lund, Sweden

- As part of the Biospheric and Anthropogenic Radioactivity research group at the Department of Physics, I am a student researcher. I study the sources of radionuclide concentrations measured on Sweden's west coast and try to improve transport time estimates from known radioactive discharge sites. For this, I am using advanced data-driven approaches.

ODE/PDEs

Subatomic physics

Reactor physics

Data visualisation

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 – ongoing

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, responsibilities included occasional leadership of a team of 3-5 people.

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 with Python

Artificial Neural Networks and Deep Learning

Numerical methods for Differential Equations

Reproducible Data Science

ONLINE WORKSHOPS



HPC with Python

Jülich Supercomputing Centre (2025)



Intermediate Bash and Linux

HPC2N, Umeå University (2025)



Introduction to Fortran

Leibniz Supercomputing Centre (2025)



Git, code testing and documentation

EPFL, CECAM, BioNT (2025)

TECHNICAL SKILLS

Python

Linux

MATLAB

Git

C#

R (programming)

OpenMC

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>.