

Teaching Portfolio

* Formal educational training:

Lecturer training programme ("Universitetspædagogikum", 2008).

* Administrative tasks related to education:

Member of the Education Committee for physics and chemistry (2012-present).

Member of the Study Board of Science (2018-2021).

Head of studies for the physics education (2021-present)

Responsible teacher in a majority of the courses in which I have been lecturer (see below).

* Experience with teaching, supervision and examination:

Teaching assistant 1999-2004 in

Mathematics:

- Calculus

- Linear algebra.

Applied mathematics:

- Analytical and computational mechanics.

Physics:

- Introduction to chaos

- Functional biomedicine A

- Functional biomedicine B

- Introduction to computer simulations

- Non-equilibrium statistical mechanics (partly lecturing).

Physics lecturer 2008-present:

- Understanding basic physics (1st year course for science students)

- Understanding elementary physics (course for pharmacy and biology students)

- Modeling of physical systems (part on Monte Carlo simulations)

- Advanced statistical physics (mostly in non-equilibrium part)

- Mini-course in LaTeX

- Introductory quantum mechanics I

- Introductory quantum mechanics II

- Classical field theory

- Random walks and fractional dynamics

- Electromagnetism and optics

- Bayesian inference and information theory

- Experimental and computational physics and statistical data analysis (part on statistics).

- Mechanics and thermodynamics (in thermodynamics part)

- Statistical physics (thermodynamics and statistical mechanics)

- Information theory, inference, and learning algorithms

Supervision (not including co-supervision):

- Bachelor students: 10

- Master students: 14

- Ph.D-students: 1

- Postdocs: 1

Last updated 18/2-2024