

## Undervisningsportfolio

### 1. Undervisnings-CV: Oversigt over undervisnings- og vejledningsopgaver med angivelse af fagområder, omfang, niveau (BA, kandidat, EVU, Ph.d) samt evt. censoropgaver.

CodeRefinery workshop

- Inviting and organizing external lectures. Teaching assistant. 3 days. Summer 2019.

The Social Data Science PhD Course 2019

- Developed introduction to Python for day one with T. Arildsen. Teaching assistant for 4 days.

Introduction to Python and Data Carpentry for Social Science

- Developed all material. A one day course. Spring 2019

Computational reproducibility, ad-hoc workshop

- Developed all material. Presentations spring/autumn 2019

External censor, DTU, master projects 2018-2019

Optimization Methods, School of Information and Communication Technology, 7th semester.

- Formed curriculum, planning and executing 4 lectures including exercises and one exercise-day, preparing project relevant mini-project each year, examiner for exam. 2012-2015

Scientific Computing and Sensor Modeling, School of Information and Communication Technology, 8th semester.

- Planning and executing 5 lectures including exercises on programming and scientific computing and a one-day workshop on sensor modeling. 2013-2015

- Development of an accompanying textbook with Prof. T. Larsen and T. Arildsen, "Behavioral Simulation and Computing for Signal Processing Systems",  $\approx$  450 pages.

Mathematical Modelling and Simulation of Technological Systems I, School of Engineering and Science, 1th semester.

- Planning the entire course, teaches 4 lectures including exercises, preparing mini-project, examiner. 2013-2015

Scientific Computing using Python, The Doctoral School of Engineering and Science, PhD level.

- Planning of the 2+2.5 ECTS course, preparing and executing 50% of the 2.5 ECTS course, preparing and handling mini-projects. 2014-

Advanced Speech Processing, PhD level

- Executing one day of a 5 day course. Focus on convex optimization and its use in speech processing.

Algorithms for Large Scale Convex Optimization, PhD course.

- Teaching assistant for Prof. Lieven Vandenberghe. Assisted in exercise sessions as well as preparing exercises and the final project. 2010

Supervision experience:

- Signal Processing and Computing, 7th+8th+9-10th semester, 10 groups.

- Signal Processing, 6th semester, 2 groups.

- Mathematical Engineering, 1th+2th semester, 3 groups.

- Co-supervised 1 PhD student. 2012-2014

Internal examiner:

- Machine Learning 2012-2017

- Mathematical Modelling and Simulation of Technological Systems I, 2017

### 2. Studieadministration: Oversigt over studieadministrative opgaver, eksempelvis medlem af studienævn, studieleder, semesterkoordinator, fagkoordinator, akkreditering m.v.

Promotion of the "Signal and Information Processing" education.

### 3. Universitetspædagogiske kvalifikationsforløb: Oversigt over gennemførte universitetspædagogiske kursusforløb, PBL-kurser, workshops, udviklingsprojekter, kollegial supervision o.l.

Completed the University Teacher Education for Assistant Professors, 2015.

**4. Anden form for kvalificering: Konferencedeltagelse, debatindlæg, oplæg m.v. i relation til uddannelse, "Undervisningens dag", o.l.**

None

**5. Undervisningsudviklingsforløb og undervisningsmateriale: Oversigt over medvirken til udvikling af nye moduler, undervisningsmateriale, uddannelser, e-learning, samarbejde med eksterne samarbejdspartnere o.l.**

Writing on a textbook with Torben Larsen and Thomas Arildsen.

**6. Nominering til og/eller modtagelse af undervisningspriser.**

None

**7. Evt. personlige refleksioner og initiativer: Personlige overvejelser knyttet til undervisning og vejledning, ønsker til og planer for pædagogisk videreudvikling, planer for opfølgning på undervisningsevalueringer m.v.**

Experimenting with peer assessment on a first semester course.

**8. Andet.**

None