Formal educational training

Lecture Training Program, University of Southern Denmark, May 2016

Administrative tasks relating to education

From 2013-2017, I have regularly been responsible for the Biostatistics 2 PhD course for health science students, SDU

Being an assistant to the courses at the Technical University of Darmstadt (cp. Section 3), I have been responsible for the organization of the practice groups for up to 450 students per course including hiring, instructing and supervising student teaching assistants.

Experience of study programmes, supervision and examinations

As lecturer:
Since Fall 2018: Scientific Methods and Analysis (Statistics part): 2.3 ECTS for master students from audiology and Audiologopedics, SDU.
Since Fall 2017: Theory of Science (Statistics part): 3.75 ECTS for Bachelor students from Audiology and Audiologopedics, SDU. (2017, 2018 together with colleagues from EBB)
Since Spring 2018: Biostatistics 2, PhD course for health science students, SDU: I act as project tutor during the project-part of the course.
Spring 2013-Fall 2017 (except Fall 2014 and Spring 2015): Biostatistics 2, PhD course for health science students, SDU, consisting of 4 weeks à 3h lectures
Fall 2011: Scientific Methods, master program in Cognitive Vision of the Mærsk Mc-Kinney Møller Institute, SDU, 3 weeks à 1.5h lecture and 1.5h computer practical
Fall 2008: Stochastic differential equations, master program in mathematics, TUD, 14 weeks à 2h lecture and 1h tutorial
Spring 2008: Linear Models, master program in mathematics, TUD, 14 weeks à 2h lecture

As teaching assistant at SDU:
Fall 2012, Spring 2013: Biostatistics 1, PhD course for health science students
Fall 2012: Biostatistics and Evidence for pharmacists
Spring 2012: Modul 10, Statistics for medical students
Fall 2011, Fall 2012: Biostatistics 2, PhD course for health science students

As teaching assistant at TUD:
Fall 2008: Calculus I and II for mathematicians
Spring 2008: Numerical mathematics for mechanical engineers
Fall 2007: Statistics I for computer scientists and engineers
Spring 2005, Fall 2005: Calculus I for mathematicians
Fall 2004: Calculus I for mechanical engineers
Spring 2004, Spring 2006, Spring 2007: Introduction into statistics for mathematicians and computer scientists
Fall 2003, Fall 2006: Calculus III for civil engineers
SDU=University of Southern Denmark, TUD=Technical University of Darmstadt, Germany

At TUD, I have on a regular basis been assisting in the correction of a large number of written exams (mainly for engineering students), as well as acted as assistant censor for oral exams (for mathematics students)

In 2008 I have been involved in the supervision of a diploma thesis in mathematics at TUD.

Methods, materials and tools

To meet SDU's principles of active learning and teaching, I constantly aim at mixing lectures with activating elements such as frequent plenum discussions, pair discussions and group work. Some of my teaching sessions are inspired by "flipped classroom"-ideas.
There is considerable focus on relevant examples from the medical sciences. Especially, in the computer practicals for the Biostatistics 2 course, students carry out statistical analyses on exemplary datasets and get hands-on experience with the statistics software STATA.

In the statistics courses for the Bachelor and Master students of audiology and audiologopedics at SDU, I implemented the use of the statistics software STATA. The software gives the students enhanced possibilities to work on real datasets and to experience realistic analyses. Moreover, it prepares students for quantitative master theses. Using STATA already this early in the students' progress is currently outstanding compared to many other statistics courses at the Faculty of Health Sciences, SDU.

Educational development

I am steadily developing my teaching in order to enhance student learning.