

Teaching portfolio

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Mathematics

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Administrative tasks related to education

Head of the mathematics education - SDU (current).

Member of the teaching committee - SDU (current).

Lead of the Mathematics Academic Committee - SUTD (Singapore).

The lead of Math-1 - SUTD (Singapore).

Member of the Admissions Team - Royal Holloway (UK).

Head of the Third Year Project Committee - Royal Holloway (UK).

Director of Graduate Studies - Royal Holloway (UK).

Experience with teaching, supervision and examination

I am currently teaching the following courses at SDU.

- Combinatorial Mathematics (MM541, 5 ECTS). In danish.
- Mathematics and Statistics (5 ECTS). In danish.
- Calculus (FT501, 5 ECTS). In danish.

I have previously taught the following courses at SDU.

- Kvantitative Analyseredskaber (5 ECTS), 2016. In danish.
- Tools for Quantitative Analysis (5 ECTS), 2016. In english.
- Mathematics 2 (5 ECTS), 2016-2017. In danish.
- Mathematics and Statistics (5 ECTS), 2017-2019. In english.

At SUTD (Singapore) I taught the following courses.

- Advanced Math 1 (10.001, Calculus), 2013-2016. Undergraduate level.
- Optimization (40.002), 2013. Undergraduate level.
- Linear Optimization (40.510), 2013. Graduate level.
- Advanced Math 2 (10.004), 2014-2015. Undergraduate level.
- Discrete Mathematics (41.520), 2014. Graduate level.

At Royal Holloway I taught the following courses.

- Algorithms and Complexity (CS2490), 2001-2005.
- Algorithms and Complexity (CS2700/CS2711) 2005-2009.
- Algorithms and Complexity I (CS2860), 2010-2012.
- C++ programming (CS1201), 2002-2004.
- Software development (CS2201), 2004-2005.
- Java programming (CS1211), 2007-2008.
- Java lab-sessions (CS1801), 2008-2009.
- Computational Optimization (CS3490), 2005-2012.

Previous I also taught the following courses.

- Graph Algorithms, 2000-2001 - Aarhus University.
- Discrete Mathematics, 2000 - Aarhus University.
- Discrete Mathematics, 1998 - Odense University (SDU)

I have furthermore supervised 4 Ph.D. students, 3 Masters students and around 100 Bachelor students.

In the above courses I have had oral exams, written exams and examination by take-home exams.

Methods, materials and tools

In the courses I have taught, I have planned and conducted oral exams, written exams and examination by take-home exams.

I have written materials for several of the courses I taught. This includes books, lab-sessions, slides, notes, etc.

I have had my lectures recorded and posted online and given interactive lectures (where the students should solve questions during the lecture).

Reflections on teaching practice

We keep learning all through our lives, so I try to adopt new techniques and methods of teaching all the time. I like to make the classes interactive (if possible) and I think the most important part of being a good teacher is to give good intuition and motivation as well as being able to explain the difficult parts well.

I generally also make comprehensive slides that for example explain the parts that are maybe not so well explained in the text-book.

I regularly hand out questionnaires to get feedback from the students and both at these and the official surveys I have always gotten very positive feedback. I have also conducted peer-reviewing of other peoples teaching as well as had my own teaching peer reviewed. These reviews have also always been very positive.