

## Undervisningsportfolio

Anders Yeo

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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 Universite (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.