

Teaching Portfolio

(see also <https://imada.sdu.dk/~daniel/teaching/>)

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Administrative tasks relating to education

- Degree Responsible (uddannelsesansvarlige), 2015 - now
- Member of the Teaching Committee (IMADA), 2014 - now
- Substitute Member of the Study Board (NAT), 2015 - now
- Member of the uddannelsesudvalg, 2020 - now

Courses Taught (only Denmark since 2008)

DM510, Operating Systems, 2020, Spring, 10 ECTS
DM840, Algorithms in Cheminformatics, 2019, Fall, 10 ECTS
DM561, Linear Algebra with Applications, 2019, Fall, 10 ECTS, co-teaching
Sabbatical at Harvard Medical School, 2019, Spring
DM561, Linear Algebra with Applications, 2018, Fall, 10 ECTS, co-teaching
DM562, Scientific programming, 2018, Fall, 5 ECTS
DM840, Algorithms in Cheminformatics, 2018, Fall, 10 ECTS
DM510, Operating Systems, 2018, Spring, 10 ECTS
DM818, Parallel Computing, 2017, Fall, 10 ECTS
DM840, Algorithms in Cheminformatics, 2017, Spring, 10 ECTS
DM853, Introduction to Parallel Computing, 2016, Fall, 10 ECTS
DM851, Applied Combinatorics, 2016, Fall, 5 ECTS
DM840, Algorithms in Cheminformatics, 2016, Spring, 10 ECTS
DM818, Parallel Computing, 2015, Fall, 10 ECTS
DM510, Operating Systems, 2015, Spring, 10 ECTS
DM840, Algorithms in Cheminformatics, 2014, Fall, 10 ECTS
Sabbatical at University of Vienna, 2014, Spring
ES800, Parallel Computing in Science, 2013, Fall, 5 ECTS
DM818, Parallel Computing, 2013, Fall, 10 ECTS
DM510, Operating Systems, 2013, Spring, 10 ECTS
NAT501, Science Project, 2013, Spring, 10 ECTS, co-teaching
DM832, Cheminformatics, 2012, Fall, 10 ECTS
DM813, Algorithms for Biological Sequence Analysis, 2012, Fall, 10 ECTS
DM510, Operating Systems, 2012, Spring, 10 ECTS
DM818, Parallel Computing, 2011, Fall, 10 ECTS
DM510, Operating Systems, 2011, Spring, 10 ECTS
NAT501, Science Project, 2011, Spring, 10 ECTS, co-teaching
DM813, Algorithms for Biological Sequence Analysis, 2010, Fall, 10 ECTS
MM524, Mathematical Tools, 2010, Fall, 5 ECTS
DM527, Mathematical Tools for Computer Science, 2010, Fall, 5 ECTS
DM510, Operating Systems, 2010, Spring, 10 ECTS
NAT501, Science Project, 2010, Spring, 10 ECTS, co-teaching

DM813, Algorithms for Biological Sequence Analysis, 2009, Fall, 10 ECTS
DM818, Parallel Computing, 2009, Fall, 10 ECTS
DM510, Operating Systems, 2009, Spring, 10 ECTS
DM8XX, Parallel Computing, 2008, Fall, 10 ECTS

Student supervision (MSc/kandidat)

Since 2014: 19 MSc projects and 2 qualifying exam projects. Overall I supervised more than 50 MSc thesis project, including the thesis that won the best Danish Computer Science thesis in 2012.

Teaching Philosophy

"I don't believe I can really do without teaching. [...] The questions of the students are often the source of new research. [...] So I find that teaching and the students keep life going, and I would never accept any position in which somebody has invented a happy situation for me where I don't have to teach. Never." [Richard P. Feynman, from the book "Surely you're joking, Mr. Feynman!" speaking about his time in Princeton.]

This quote by Richard Feynman underlines my teaching philosophy in undergraduate and graduate classes. It emphasises my strong belief that besides teaching the subject of a course, there are further essential goals. Good teachers have to motivate their students to always have a critical thinking and to ask profound questions. This requires creating a comfortable and motivating atmosphere where students feel respected. Both students and the teacher will obviously profit from the arising discussions. My primary pedagogical goal is to help students learn how to ask, how to search for answers, and how to apply their knowledge as we work through the question and answer process.