

Teaching portfolio

1. Teaching CV: A list of teaching and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD). Please state the teaching method used (e.g. lecture, class teaching, exercises, supervision, examination, coexamination, distance teaching, internet-based teaching and evaluation of teaching). Please also indicate the language of instruction.

I have completed a Nordic seminar for Ph.D. supervisors, Aalborg University and in addition, I have completed a course in University Pedagogy for Assistant Professors at Aalborg University.

I have more than 8.000 hours of teaching experience in relation to problem based learning (PBL) excluding supervision of PhD students and visiting students. My teaching load has been approximately 60 % for several years, but for some years I have had a smaller load due to leaves related to maternity and Innovation. I am/have been teaching within 5 different Master/Bachelor Educations and in addition I have served as censor for a 6th education.

I am teaching PhD students in PhD courses and I am currently main supervisor for 7 PhD students within Rehabilitation Robotics and co-supervisor for 3 more PhD students. I have been main/co supervising 4 more PhD students who have now graduated. Two of these were related to shared international projects.

Further, I have been the main supervisor of 20+ graduate students on their master projects, (Biomedical Engineering, Clinical Science and Technology) including international ERASMUS students and a visiting student from the Danish Technical University. In addition, I have developed 6 entirely new courses – 3 on BSc level and 3 on Master level, and I have developed a new PhD course.

I have developed the curriculum for BSc in Robotics, and recently, for the MSc in Robotics as the main representative from our department, Health Science and Technology (HST) in a 4-Departemnt collaborative effort to develop a Robotics education at Aalborg University. This included inputs to applications (prequalification/approval) to the Danish Ministry of Higher Education and Science for approval for the establishment of the educations.

Additionally, I have taken part in developing the new curriculum for MSc. In Biomedical Engineering at Aalborg University, and I have taken part in the accreditation of the Master education in Clinical Science and Technology (an education for nurses, midwives, physiotherapists and similar Bachelors).

Details on the above activities are given below.

The 5 different studies that I am /have been teaching in are:

1. Biomedical Engineering and Informatics (Bachelor and Master of Science).
2. Bachelor in Robotics and Master of Science in Robotics (Started Aug. 2019)
3. Clinical Science and Technology (Master).
4. Medical Science and Medicine with an Industrial Specialization (Graduate and undergraduate level).
5. Techno Anthropology (Graduate and undergraduate level).
6. Censor for: Bachelor of Science in Sports Science

Supervision at (HST):

1. Students in Biomedical Engineering and informatics at BSc: 1st, 3rd, 5th , 6th, MSc.: 1st, 2nd, 3rd and 4th semester (Master Thesis).
2. Students in Robotics in BSc at 1 semester, 4th semester, 5th semester and 6th semester, MSc at 2nd and 3rd semester.
3. Students in Clinical Science and Technology at 3rd Semester Master and 4th Semester (Master thesis)
4. Students at Techno Anthropology at BSc: 2nd,3rd,4th and MSc: 1st semester.

Case supervision (at HST):

Students in Medical Science and Medicine with an Industrial Specialization at 1st semester

Consulting (at HST):

Students in Medical Science and Medicine with an Industrial Specialization at 1st semester: Scheduled mandatory personal student consultations addressing their learning methods/strategies, study organization, social relations to other students etc.

Course responsible (and lecturing at HST):

1. PhD course in implantable systems and biocompatibility (2 times), at The International Doctoral School in Biomedical Science and Engineering, AAU
2. Implantable systems and biocompatibility, 8th semester - Biomedical Engineering and informatics (end 2008)
3. Rehabilitation and assistive devices, 8th semester - Biomedical Engineering and informatics - running
4. Technology in the Health care sector, 1 semester Master Students in Clinical Science and Technology
5. Sundhedsteknologi I organisatorisk og virksomheds perspektiv, 6th semester Biomedical Engineering and informatics (end 2017)
6. Sensing the surroundings (Robotic sensing), 4th semester Bachelor in robotics (until 2018)
7. Robots in the Health Care sector - running

Further Lecturing in: (at HST):

1. Perspectives of Clinical Trials in Drug and Medical Device Development, 8th semester Medicine with an Industrial Specialization - running
2. Human Robot Interaction, 2nd semester MSc in Robotics
3. PhD course: Principles of neuromodulation at the The International Doctoral School in Biomedical Science and Engineering, Aalborg University

4. PhD course in implantable systems and biocompatibility at The International Doctoral School in Biomedical Science and Engineering, Aalborg University

5. Arranged Sessions and lectured several times at the annual International Ph.D. Symposium on the Advances in Neurophysiology and Neural Rehabilitation Engineering of Movement, Aalborg University, e.g. in 2018: <https://www.smi.hst.aau.dk/events/show/9th-annual-aalborg-symposium-on-the-advances-in-neurophysiology-and-neural-rehabilitation-engineering-of-movement---anres2018.cid356547>

Assisting Teacher:

Continuous Mathematics, BSc. Electrical Engineering

Censor:

I have served as censor within more projects that I can remember across the following educations:

1. Biomedical Engineering and informatics (Bachelor and Master of Science).
2. Bachelor in Robotics
3. Clinical Science and Technology (Master).
4. Bachelor of Science in Sports Science
5. Techno Anthropology (Master of Science and Bachelor).

Chairman at PhD defenses:

I have chaired 5 PhD defenses, respectively on:

1. Development of a Passive Orthosis for Upper Extremity Assistance — Towards a Subject-specific Device by means of Musculoskeletal Modelling
2. Assessment of Postural Control in relation to Balance and Falls
3. Movement related cortical potentials based brain computer interface for stroke rehabilitation
4. Intrafascicular electrodes for the activation of peripheral nerves
5. Tele-rehabilitation of upper limb function in stroke patients using Microsoft Kinect

2. Study/programme administration and management: Experience in programme management and coordination. A list of study administration tasks, e.g. study board membership, chair of study board, semester or course coordinator, accreditation tasks, etc. Experience in planning teaching activities. Experience in programme development. Participating in committees and commissions etc. on education issues.

Coordination:

1. I served several years as coordinator for 3rd semester in: Biomedical Engineering and informatics
2. I am study coordinator for the new Master of Science in Robotics and of the Bachelor in Robotics, across all semesters at HST

Accreditation:

1. I participated in accreditation of the education: Clinical Science and Technology (Master)
2. I participated in accreditation of the education: Bachelor in Robotics
3. I was member of the program council of Folkeuniversitetet Norjylland for several years

3. Formal pedagogical training: A list of completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc. Written assessment from the course in university pedagogy for assistant professors. Participation in conferences on pedagogy and didactics. Please enclose any documentation of the above, such as course certificates, references, etc

I have completed a Nordic seminar for Ph.D. supervisors, Aalborg University and in addition, I have completed a course in University Pedagogy for Assistant Professors at Aalborg University.

4. Other qualifications: Conference contributions and attendance, contributions to debates, scientific articles on pedagogical issues etc. Peer supervision, editorials, mentoring experience or other types of competence development activities.

Type your answer here...

5. Pedagogical development and research: Development of new courses, teaching materials, teaching methods, examination types or other types of pedagogical development. Didactic and pedagogical research. Cooperation with external collaboration partners.

Development of new curriculums:

I have participated in the development of the new curriculums for the educations:

1. Bachelor in Robotics, AAU

2. Master of Science in Robotics, AAU
3. Master of Sc. In Biomedical Engineering, AAU

Development of new courses:

1. PhD course in implantable systems and biocompatibility (2 times), at The International Doctoral School in Biomedical Science and Engineering, AAU
2. Implantable systems and biocompatibility, 8th semester - Biomedical Engineering and informatics (end 2008)
3. Rehabilitation and assistive devices, 8th semester - Biomedical Engineering and informatics
4. Sundhedsteknologi I organisatorisk og virksomheds perspektiv, 6th semester Biomedical Engineering and informatics
5. Sensing the surroundings (Robotic sensing), 4th semester Bachelor in robotics
6. Robots in the Health Care Sector, 5th semester Bachelor in robotics

6. References on your teaching skills from superiors or colleagues. Teaching evaluations and any teaching awards received.

Course in University Pedagogy for Assistant Professors, with our Department Head, Kim Dremstrup Nielsen as the University Supervisor, performing the following evaluation:

Lotte N. S. Andreassen Struijk's pedagogical strengths are her awareness of the process of learning, her planning and organization capabilities and her will and ability to reflect about her teaching and personal role in this process. She is very involved and interested in the teaching process. Lotte's engagement in supervision is strong, professional and yet emphatic. She actively, in her own style, works with different aspects of the counsellor's role. Lotte's involvement and performance in this course was excellent.

7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogical development, plans for following up on student feedback/evaluations, etc. Personal reflections on your own pedagogical practice, including objectives, methods and implementation. This should include an analysis and a reasoned description of your pedagogical activities in relation to your pedagogical understanding and student learning. Thoughts on the teaching method at Aalborg University (which is largely based on group-organised project work and problem-based learning)

I believe in problem based learning, PBL, as a key factor in learning and I seek to combine it with Vygotskys theories of leaning. I believe, that you learn the most at the limit of you capabilities, and as a teacher, I take on the intriguing task to build a secure and facilitating frame for reaching these limits. I believe that engagement facilitates leaning, as stated in the old Chinese the quote below:

"Tell me and I will forget, teach me and I will remember, involve me and I will understand, step back and I will act."

8. Any other information or comments.

Type your answer here...