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Employment

Professor

The Maersk Mc-Kinney Moller Institute
University of Southern Denmark
Odense M
1. Sep 2017 → present

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Statement of Teaching Philosophy

I began teaching university students in 1984, just after my graduation as MSc in Engineering. I originally chose to study at Aalborg University because of the problem based learning approach and being academically brought up in a PBL environment I immediately felt comfortable with the task. It is a great satisfaction to me to communicate my own experience and knowledge to new students and contribute to their intellectual growth. Also, it is often highly rewarding to follow student's realizations of desired learning goals, and thereby gain new perspectives on own research topics. Effective teaching builds on the ability first to create confidence, openness, and curiosity in the students. Hereafter the learning goal is activated and my task as a teacher is to assist in realizing the comprehension and understanding.

Teaching Accomplishments

Below are my teaching accomplishments listed. The teaching at Aalborg University (AAU) is divided into two different activities: Courses i.e. traditional lectures with exercises (one session is normally 4 hours of planned activities), and supervision, i.e. meetings with students discussing progress in their research projects, recommending literature, explaining theories, advising on methods etc.

Besides the teaching of students at Aalborg University I have planned and conducted several courses "out of the house".

Undergraduate programs in engineering, medicine, and sports science (AAU) - 1984 to present

Since I started teaching university students, I have been supervising first year students in project groups – a rough count is around 80 different projects. They cover a very broad range of subjects eg. "Regulation of chemical additives in wastewater treatment plant", "Obtaining objective measures for reaction time related to lack of sleep", "Learning the motor skill to Ollie on a Skateboard", "The relation between children's sleep pattern and obesity".

In engineering and medicine with industrial specialization programs I have for 30 consecutive years developed course material and planned courses in:

- Basic Social Science (4 module of 4 hours)
- Technology Assessment (8 modules of 4 hours)
- Scientific methods (4 module of 4 hours)

All the courses are taught as a combination of lectures and relating exercises in four-hour modules.

Humanistic Computer Science AAU – 1989 - 1990 During my employment as assistant professor at Department of Communication, at the faculty of humanities I planned and conducted 8 courses in data-bases, basic programming and algorithms.

Additionally, I supervised three groups of students.

Export engineers 5th semester AAU - 1993 Planned and conducted course in Technology Theory

Master program in Health Informatics AAU 1994 - 2007 I took the initiative to this program in 1993. It was one of the first master programs in Denmark and I made the first draft of the study plan and obtained approval from the ministry of education to launch the program in 1994. The program was planned as collaboration between the Department of Communication, Department of Development and Planning and the Department of Electronic Systems – later Department of Health Science and Technology. I was coordinator of the program from 1994 to 2007 and ran courses on:

- Evaluation of health informatics systems
- Organization theory and project management
- Qualitative methods
- Problem based project work
- Design of questionnaire survey

Besides running courses, I have every year been supervisor for 3-4 student project groups on first, second, and third year – 1 to 5 students in each group. Around 350 students graduated from the program in that period.

Scandinavian summer school - 2000 and 2001 Planned and conducted 5 days course in Management in Health Informatics.

Short course for medical secretaries 2001

Planning and teaching: Five days course for medical secretaries in Copenhagen County health care system.

Master in Public Health, University of Southern Denmark, Esbjerg – 2001-2002

Planned and conducted six whole days course in Basic Introduction to Health Informatics.

Biomedical engineering for international students, AAU, 2003-2007

Planned and conducted course: Introduction to the Danish Health Care System and Health Informatics.

Supervisor for research projects Master in Biomedical Engineering, AAU

- Marie Porot: "Development and implementation of EHR in hospitals - analysis of medical secretary work" - 2005
- Lars Lilholdt & Signe Stougaard Pedersen: "Development of Methods for Usability Evaluations of EHR systems" - 2006
- Randi Jørgensen: "Usability testing of the Danish EHR systems medicine modules" - 2007
- Marie Juul Hansen and Nana Østergaard Rasmussen: "Natural Language Processing techniques to extract information from adverse events reports" - 2008

PhD courses:

I have planned and taught on the following PhD courses offered from the Doctoral Programme in Planning and Development, Aalborg University.

- Understanding Implementation of Health Informatics – Grounded Theory, Evaluation and Socio-technical Approaches 2006
- Human Factors Engineering and Usability for Healthcare Information Tech-nology Applications 2007
- Participatory design in health informatics 2008
- Socio-technical Approaches to Health Care IT research 2010
- Theoretical approaches and methods to evaluate health informatics systems and eHealth applications 2012
- History of Theory and Analysis Methods in Health Informatics 2013
- Participatory methods in health informatics 2015

Aalborg University Lifelong Learning program – 2008, 2009, 2010, 2011

Planned and conducted one-day course in Creativity in design and innovations

Medical School Aalborg University – 2010 to 2018

During the eighth years, I have lectured for first year medical students about "Resource Management in Health Care", "Health Care Technology Assessment", and "Data Acquisition".

Every year I have supervised 2. semester student groups in public health project work (3ECTS)

Master program in Techno-anthropology, AAU, 2012 - 2017

Lecture in participatory methods in health information system design.

Supervised student groups on all semesters, including 3 master dissertations:

Kristina Tornbjerg: "OPFATTELSE AF EMPOWERMENT VIA SUNDHEDS-IT

- en teknoantropologisk undersøgelse af borgeres udbytte af adgang til person-lige sundhedsdata via Sundhed.dk" 2014

Christopher Harder: The Supportive and Impeding Nature of Culture in Adverse Event Reporting - An ethnographic research study" 2014

Bachelor and master program in Techno-anthropology, AAU, 2012 - 2017

Planned and run courses:

- Methods for Anthropology driven design 4th semester
- Interdisciplinary Knowledge Production: Analysis and Dissemination of BSc Knowledge Production and Technology in Practice 7th semester
- Product Development: Value Sensitive Design, User driven Innovation, Tech-nology based Services or Scientific Advice 8th semester

Supervised student project work on all semesters 3rd to 10th.

Bachelor program in Interaction design 2014 – 2015

Supervisor for student groups on 2. semester

Course at Welfare Technology MSc. program at University of Southern Denmark (SDU) 2017 - present. Elective course in Methods for Participatory Design (5ECTS)

Supervision of Students at Welfare Technology MSc. program at University of Southern Denmark (SDU) 2017 - present*

7 "In Company" projects* 4 completed Master's thesis projects * 3 in progress Master's thesis projects

Other courses and teaching activities at SDU: Methods for participatory design at the Master program for Midwifery Science Introduction to Health Informatics at the Medical School

Part of the All Faculty Talent Programme "Radical Rethink! The Future of Ageing Societies.

International:

Planned and run course on Participatory Methods at School of Computing and Information Systems, University of Tasmania, Hobart, Australia (one week) February 2016.

Lectures on analysis of work procedures for medications in hospitals at School of Health Information Science, University of Victoria, Victoria, BC, Canada 2015 (via Distance learning)

Doctoral supervision and opponents activities:

Ph.D. supervision

- *Henrik Toft Sørensen*: "Epidemiologi og sundhedsplanlægning". 1993 – 1994
- *Rolf Nikula*: "Datorjournalen – en social konstruktion. En studie av hur kärnverksamhetens aktörer tar emot och konstruerar datorjournalen som ett medel för verksamhetsförändring". 1998 – 200
- *Henriette Mabeck*: "Medical practices and use of CPOE" 2005 – 2008.
- *Anna Marie Høstgaard*: "En procesorienteret evaluering af implementeringen af den elektroniske patientjournal (EPJ) i Nordjyllands Amt" 2006 – 2009. (CO supervision with Pernille Bertelsen).
- *Lone Stub Pedersen*: "Perspectives for it-support in hospitals" (CO supervision with Pernille Bertelsen) 2008-2010
- *Charlotte Bjørnes*: "Hvordan oplever mænd med prostatacancer, der gennemgår et forløb med radikal prostatektomi, de korte og afgrænsede kontakter med sundhedsprofessionelle?" 2008 -2011.
- *Sanne Jensen*: "Anvendelse af simulation i forbindelse med design og evaluering af sundheds-it" 2011-2014.
- *Sidsel Villumsen*: "Metoder til monitorering af udbredelse, brug og effekter af sundheds-it-systemer" 2014-2019.

Ph.D. Opponent

- *Tina Blegind Jensen*: "IS Adoption From a User Perspective: A case Study of How Health Care Professionals Experience and Make Sense of an Electronic Patient Record Adoption". Aarhus School of Business, University of Aarhus. 2007.
- *Elizabeth Cummings*: "An investigation of the influence of an online patient diary on the health outcomes and experience of people with chronic obstructive pulmonary disease (COPD) participating in a mentored self-management clinical controlled trial". University of Tasmania, Hobart, Australia. 2008
- *Andrew Georgiou*: "The Organisation and Communication Implications of Electronic Ordering Systems for Hospital Pathology Services". University of New South Wales, Sydney, Australia. 2009
- *Annabeth Aagaard*: "Front End Innovation". Aalborg University. 2009.
- *Maren Sander Granlien*: "Participation and Evaluation in the Design of Healthcare Work Systems". Roskilde University, 2010.
- *Emmanuel Chazard*: "Automated Detection of Adverse Drug Events by Data Mining of Electronic Health Records". Lille University Hospital, France. 2011.
- *Ming Chao Wong*: "An exploration of shift-to-shift clinical handover and clinical handover improvement using a user-centered approach at the Royal Hobart Hospital, Tasmania, Australia". University of Tasmania, Hobart, Australia. 2011.
- *Vigdis Heimly*: "Electronic Collaboration across organizational borders in the health care sector: Design and deployment from a sociotechnical perspective". Norwegian University of Science and Technology, Trondheim, Norway. 2012.
- *Linda W.P. Peute*: "Human Factors Methods in health Information Systems' Design and Evaluation. The Road to Success?" University of Amsterdam, The Netherlands. 2013.
- *Amina Tariq*: "Medication safety in collaborative health care settings: An investigation of the impact of information exchange processes in residential aged care facilities". University of New South Wales, Sydney, Australia. 2013.
- *Patrick Kierkegaard*: "The Coordination of Care Across Borders - Exchanging patient information across international, national and institutional boundaries". Copenhagen University, Denmark. 2014
- *Romarc Marcelli*: "Towards a usability knowledge base to support health information technology design and evaluation: Application to medication alert systems". Iniversité Lille Nord de France. 2014.
- *Virpi Jylhä*: "Information Management in Health Care. A model for Connecting Information Culture and Patient Safety". University of Eastern Finland. 2016.
- *Elia Gabarron*: "Social Media and sexual health – New arenas for information on sexually transmitted infections and promotion of healthy sexual behavior". University of Tromsø - The Arctic University of Norway (UiT). 2017.
- *Anne Amyr Thorseng*: "Building patient-centred health information infrastructures". University of Oslo, Norway. 2017.
- *Sophie Wass*: "The Importance of eHealth Innovations. Lessons About Patient Accessible Information". Jönköping University, Sweden. 2017.
- *Pernille Ravn Jakobsen*: "Design, development and test of an mHealth app for women newly diagnosed with osteoporosis without preceding fractures". University of Southern Denmark, Denmark. 2018.
- *Isabella Friis Jørgensen*: "Prediction of faulty diagnoses in disease trajectories of time-ordered comorbidities – Identifying under-, over- and mis-diagnosed diseases. University of Copenhagen. 2019.