Publications

Development of an internet-delivered program and platform for the treatment of depression and anxiety in patients with ischemic heart disease in eMindYourHeart

Internet-based treatment of anxiety and depression in patients with ischaemic heart disease attending cardiac rehabilitation: a feasibility study (eMindYourHeart)

Efficacy and cost-effectiveness of a therapist-assisted web-based intervention for depression and anxiety in patients with ischemic heart disease attending cardiac rehabilitation [eMindYourHeart trial]: a randomised controlled trial protocol

A Simple Assessment of Information Security Awareness in Hospital Staff Across Five Danish Regions

Prediction of Length of Stay Using Vital Signs at the Admission Time in Emergency Departments

Challenges and Recommendations for Implementing a Novel Patient Monitoring System for Emergency Departments

Coping with Information Technology Downtime in Hospitals: A Scoping Study

Coping with IT Downtime in Hospitals

Online Medication Information for Citizens: A Comparison of Demands on eHealth Literacy
Nordic eHealth Benchmarking: Towards evidence informed policies

Personalized Predictive Models for Identifying Clinical Deterioration Using LSTM in Emergency Departments

Prediction of Patients Severity at Emergency Department Using NARX and Ensemble Learning

Using a Mobile Diary App in the Treatment of Borderline Personality Disorder: Mixed Methods Feasibility Study

Predicting Dropouts From an Electronic Health Platform for Lifestyle Interventions: Analysis of Methods and Predictors

Design and Evaluation of a Patient Monitoring Dashboard for Emergency Departments

Model for Evaluating the Implementation of a Third Generation EHR System

Overcoming the monetization challenge in freemium online games

Utilization of a Novel Patient Monitoring Dashboard in Emergency Departments

Next generation EHRs-what problems are these systems aiming to solve?

A Comparison of Online Consumer Medication Information from Canada, Denmark, and the United States of America

Managing Change of EHR Systems
Effectiveness of a comprehensive interactive eHealth intervention on patient-reported and clinical outcomes in patients with an implantable cardioverter defibrillator [ACQUIRE-ICD trial]: study protocol of a national Danish randomised controlled trial

A Personalized and Interactive Web-Based Health Care Innovation to Advance the Quality of Life and Care of Patients With Heart Failure (ACQUIRE-HF): A Mixed Methods Feasibility Study

Development of a Web-Based Health Care Intervention for Patients With Heart Disease: Lessons Learned From a Participatory design Study

Factors related to monitoring during admission of acute patients

Identification of Patients at Risk and Patients in Need

Why Can't We All Get Along? A study of Hygge and Janteloven in a Danish social-casual games community

A Patient Deterioration Warning System for Boosting Situational Awareness of Monitored Patients

Occurrence of elevated shock index in acute patients and development of a proportional shock index metric

Identifying Patients at Risk and Patients in Need

Clustering Emergency Department Patients: An Assessment of Group Normality

Nurse utilization of patient monitoring systems at an Emergency Department bedside ward: A survey analysis

Can Google Glasses facilitate work for nurses in the Emergency Department?

Monitor Alarms in the Emergency Department are frequent and unequally distributed during a day
Triage specific patient monitoring greatly impacts the number of alarming events in the Emergency Department

Identifying Patients at Risk of Deterioration in a Danish Emergency Department

Identifying Patients at Risk of Deterioration in the Joint Emergency Department

A 3-Staged Approach to Identifying Patients at Risk of Deterioration in Emergency Departments

Monitor Alarms in the Emergency Department are frequent and unequally distributed during a day

Triage specific profiles greatly impact the number of alarming events in the emergency department

Agility in a small software firm: a sense-and-respond analysis

Employment history & experience

Employment

Associate Professor
SDU Health Informatics
University of Southern Denmark
1. Feb 2020 → present

Associate Professor
The Maersk Mc-Kinney Moller Institute
University of Southern Denmark
Odense M
1. Feb 2020 → present

2016-2017: Postdoc, Technical Faculty, University of Southern Denmark, Odense
Participating in the Acquire-HF project; a large study focusing on development and effect evaluation of clinical and economic benefits of empowering heart failure patients through the use of an interactive web-based suite of support tools.

2012 – 2016: Ph.D. Student, Technical Faculty, University of Southern Denmark, Odense
Project ‘Identifying patients at risk and patients in need’ in the newly reestablished Emergency Department at Odense University Hospital. The aim of my research is to improve decision support systems surrounding monitoring of patients and early warning systems to prevent adverse events.
My research involves the areas of machine learning, knowledge management, clinical decision support systems, human computer interaction and systems integration (HL7).
The project is a part of Patient@home project (http://www.patientathome.dk).

2010 – 2013 : Research Fellow in Marie Curie FP7 Action programme project
Participating as an industry representative for Certus in a case based research project on how small and medium sized enterprises can transform their services into the experience economy. I have been seconded to Reykjavik University for 4 months in 2011, and 2 months to Nottingham University in 2012.
During this project I have gained experience with:
• Survey construction and data gathering, user modeling, collaborative analysis and transfer of knowledge across domains.
• Learned multiple ways to conduct data analysis via quantitative and qualitative methods.
• 14 month supervision of research fellow seconded to our firm.
• Collaboration on articles for scientific journals.

2009 - 2012: Product Manager for Certus/Betware
As the product manager in a medium sized firm, I have experience with requirements gathering and product delivery in international, cross-organizational, multi-team projects of high complexity for multiplayer skill-based community platforms with both money gaming and virtual currencies. Furthermore I have conducted business cases, delivered visions and strategies, performed difficult resource planning & estimation. Search engine optimization and marketing campaigns. As the product manager it is my duty to stay on top of trends within my product’s context, this is done through interviews, data gathering & analysis and execution of workshops and usability testing.

In my time as product manager, I have steered the following projects:
• A platform migration project for TV2. Included one team for 22 months. Advocating user needs and insight.
• A money gaming project; two teams for 3 months. Communicating complex scope and facilitating knowledge between government institutions and internal stakeholders.
• A network architecture project; delivering a white label transformation and a completely new network/local community gaming architecture.
• Customer integration projects; integrating new clients and training them in maximizing product value.
• Crowd based translation; steered internationalization of our platform.
• Formalization of support and staff supervision.

2007 - 2009: Online Community Organizer & Java Enterprise Developer for Certus/Betware
Software development on a (enterprise) Java web-based platform using Struts, javascript (Jquery), Spring and Ajax technologies. Development on a proprietary Java based gaming platform. Simultaneously I have been working as the Online Community Organizer for several setups based on our gaming and community platform. Gained experience with understanding the users side of a problem, tracking issues, planning & executing workshops. Generally gaining a deep understanding of player incentives and engagement factors.

As a developer I have contributed with:
• Designing and implementing player seating randomization tools in Java
• Game client redesign in Java
• Creation of log parsing tools for collusion detection
• Frontend development of B2C system

Education
2012 - 2016 Ph.D Student in Software Engineering, University of Southern Denmark, Odense.
Working title ‘Identifying Patients at Risk and Patients in Need’.
2000 - 2007 M.Sc in Computer Systems Engineering, University of Southern Denmark, Odense.
Specialized in software development, (agile) processes and organizational evaluation.

Certification / Courses
2010 Retrospective Facilitator Gathering
2009 Scrum Product Owner, by Jeff Patton
2006 Certified Scrum Master, by Jeff Sutherland