**PERSONAL DATA:**

Born: June 27th 1975

Address: Folden 40, 7500 Holstebro

Phone: 0045 24651362

E-mail: maiken.stilling@ki.au.dk

Position: Assistant Professor, University of Aarhus, Denmark

**ACADEMIC DEGREES:**

2009: PhD, Faculty of Health Sciences, University of Aarhus, Denmark

2004: Doctor of Medicine (cand.med.), University of Aarhus, Denmark

**CLINICAL AND ACADEMIC APPOINTMENTS:**

2010 - Assistant Professor, Aarhus University (Grant from The Danish Council for Independent Research)

2010 - Junior Resident, Educational Position, Department of Orthopedics, Holstebro Regional Hospital

2010: Post.Doc., Department of Orthopaedics, Aarhus University Hospital, Denmark

2008-2009: Junior Resident, Department of Orthopedics and Emergency Room, Holstebro Regional Hospital

2006-2010: Clinical Assistant by/Professor Kjeld Søballe, Dept. of Orthopedics, Aarhus University Hospital

2005-2008: Junior Resident, Psychiatric Ward and Emergency Room, Risskov Psychiatric Hospital

2006-2008: Junior Resident, Department of Orthopaedics and Emergency Room, Aarhus University Hospital

2005-2007: Junior Resident, Department of Orthopaedics and Emergency Room, Silkeborg Regional Hospital

2004-2005: Rotational Pre-registration Internship, Silkeborg Regional Hospital and Practitioner Karsten Ruge

2004: Clinical Assistant by/Professor Kjeld Søballe, Dept. of Orthopaedics, Aarhus University Hospital

2002: Junior Resident locum tenens, Dept. of Orthopedics, Aarhus University Hospital

2001 & 2003: Pre-graduation Rotation for Orthopedics, Baptist Medical Center/Wake Forrest University, NC, USA

**ADMINISTRATIVE APPOINTMENTS:**

2010 - Head of RSA and DXA Research Section, Orthopedic Research Unit, Aarhus University Hospital

2010 - Head of Hip Wear Research Section, Orthopedic Research Unit, Aarhus University Hospital

2009 - Head of RSA and Hip Wear Research, Orthopedic Research Unit, Holstebro Regional Hospital

**LEAVE:**

2009: Maternity Leave

2007: Maternity Leave

**PhD THESIS:**

Maiken Stilling. Thesis: Polyethylene wear analysis. Experimental and clinical studies in total hip replacement.

Acta Orthop. Scand. 2009, Suppl. no 337 (80), October 2009.

**SELECTED SCIENTIFIC PUBLICATIONS (total 14):**

van de Giessen M, de Raedt S, Stilling M, Hansen TB, Maas M, Streekstra GJ, van Vliet LJ, Vos FM. Localized component analysis for arthritis detection in the trapeziometacarpal joint.Med Image Comput Comput Assist Interv. 2011;14(Pt 2):360-7.

Wong, M Stilling. Polyethylene Wear in Total Hip Artrhoplasty for Suboptimal Acetabular Cup Positions and for Different Polyethylene Types. Experimental Evaluation of Wear Simulation by Finite Element Analysis Using Clinical Radiostereometric Measurements. Bookchapter 12, Tribology in Total Hip Arthroplasty, DOI: 10.1007/978-3-642-19429-0\_12, 2011 EFFORT.

MK Tjornild, K Soballe, T Bender, M Stilling. Reproducibility of BMD Measurements in the Prosthetic Knee Comparing Knee-Specific Software to Traditional DXA Software. A Clinical Validation. J Clin Densitometry 2011. [EPub April 2011].

TB Hansen, M Meier, MCM Møller, K Larsen, M Stilling. Primary cup fixation with different designs of trapeziometa-carpal total joint trapezium components: a radiostereometric analysis in a pig bone model. J Hand Surg Eur Vol. 2011 [EPub 31. January 2011]

M Stilling, F Madsen, A Odgaard, L Rømer, NT Andersen, O Rahbek, K Søballe. Superior Fixation of Pegged Trabecular Metal over Screw-fixed Titanium Fiber-mesh: A Randomized Radiostereometric Analysis Study on Tibia Components. Acta Orthop. 2011 Apr;82(2):177-86

M Stilling, Larsen K, NT Andersen, K Søballe, Kold S, O Rahbek. The Final Follow-up Plain Radiograph is Sufficient for Clinical Evaluation of Polyethylene Wear in Total Hip Arthroplasty. A Study of Validity and Reliability. Acta Orthop. 2010 Oct;81(5):570-8.

M Stilling, K Larsen, K Søballe, NT Andersen, O Rahbek. Knee flexion influence periprosthetic BMD measurement

in the tibia. Suggestions for a reproducible clinical scan protocol. Acta Orthop. 2010 Aug;81(4):463-70.

M Stilling, K Krøner, L Rømer, M van de Giessen, B Munk. Scaphoid Kinematics Before and After STT Ligament

Section. Assessment by RSA and CT in a cadaver study. J Hand Surg Eur Vol. 2010 Oct;35(8):637-45.

TB Hansen, K Larsen, L Bjergelund, M Stilling. TMC prosthetic implants can be evaluated by RSA. Validation of

methodological and clinical precision. J Hand Surg Eur Vol. 2010 Jul;35(6):480-5.

M Stilling, K Søballe, NT Andersen, Larsen K, O Rahbek. Polyethylene wear analysis in plain radiographs. The number of radiographs influences results. Acta Orthop. 2009 Dec;80(6):675-82.

M Stilling, K Søballe, O Rahbek. Inferior Survival of Hydroxyapatite versus Titanium-coated Cups at 15 Years.

Clin Orthop Relat Res. 2009 Nov;467(11):2872-9

M Stilling, KA Nielsen, K Søballe, O Rahbek. Clinical Comparison of Polyethylene Wear with Zirconia or Cobalt-Chromium Femoral Heads. Clin Orthop Relat Res*.* 2009 Oct;467(10):2644-50.

**PRESENTATIONS:**

Oral presentations: 30, 12 as first author

Poster presentations: 20, 8 as first author

Invited Lecturers: 6, 3 international

Book Chapters: 1

**SCIENTIFIC SUPERVISOR EXPERIENCE:**

4 PhD projects at the University of Aarhus, Denmark (1 completed in the fall of 2011, 3 ongoing PhD projects)

2 Research Method Project, 9th sem. Medical Students, at the University of Aarhus, Denmark

5 Clinical projects at Aarhus University Hospital and Holstebro Regional Hospital, Denmark

1 MSc project at the Technical University of Delft, The Netherlands

**HONORARY POSITIONS:**

Educational Coordinator of Residents, Holstebro Regional Hospital, Denmark (UKYL)

Member of the Danish Orthopedic Society

Member of the Orthopedic Research Society

Member of the Jutland Medical Society

Member of the RSA Network

Chairman of poster session, PhD Day 2010, University of Aarhus, Denmark

Chairman at The Danish Orthopaedic Society Meeting 2011, Copenhagen, Denmark

Referee for Clinical Orthopedics and Related Research

Referee for Materials Science and Engineering C

Referee for Osteoarthritis and Cartilage

Referee for Acta Orthopaedica

**PRIZES:**

2011: “Best Poster Award” & “2nd Best Oral Presentation” (2500 DKr), Danish Orthopedic Society

2009: “Faculty of Health Science Award”, PhD Day, University of Aarhus

2008: “3rd Best Poster” (3000 DKr), Day-of-Research, Aarhus University Hospital

**COURSE LIST:**

**PhD Courses:** Scientific Research, Clinical Research, Introduction to Stata, Presentation of Researchdata with Power

Point, Microsoft Excel in Biomedical Research, Medical Scientific English I and II, Graphic Presentation of Quantita-

tive Scientific Data, Press Course, Magnetic Resonance Imaging in the Clinic and in Research, Basic Biostatistics,

AVOVA and repeated measurements, Stereology, Literature Research and Reference Manager, Medical Digital

Imaging, PhD Supervisor Course.

**Clinical Courses:** Statistical Evaluation and Comparison of Measurement Methods, MS Access 2003 & 2007,

Model-Based radiostereometrisk analyse (MB-RSA) I & II, AO principal course I, Lunar DEXA User Meeting 2004 &

2005, Roentgen Stereophotogrammetric Analysis Instructional Course II, Basic and Advanced CT Techniques and

Anatomy, 2nd Workshop for Hand Implant Surgery (Institute of Anatomy, University of Aarhus), GE Lunar Certified

Training, 5th Edinburgh International Instructional Trauma Course, Muskulo-sceletal Ultrasound, Patient

Communication I & II, enCORE Operator Training, Roentgen Stereophotogrammetric Analysis Instructional Course, Proximal Femoral Fractures treated with intramedullary nailing, Avanced CPR, Certified DXA Operator Instructor Course, Cementing University THA Course.

**TEACHING:**

2011: PhD Course: Image diagnostic methods for evaluation of the musculoskeletal system, AU.

2010: Clinical Course: RSA for evaluation of intertrochanteric femoral fractures, Holstebro.

2009: RSA Instructional Course, Holstebro.

2009: 20 hours teaching of nurses/radiographers in stereo radiography, Holstebro Regional Hospital

2006-2009: 50 hours teaching of final semester medical students in orthopedics , Aarhus University Hospital

2005-2009: 60 hours teaching of nurses/radiographers in stereo radiography, Aarhus University Hospital

2004-2005: 20 hours clinical teaching of 8th semester medical students

2004-2006: 50 hours teaching in Anatomy, Physiology and Pathology, dHb, Middelfart, Denmark

1998-2002: 2000 hours pre-graduate teaching in Anatomy, Physiology and Pathology, FOF courses, Aarhus

**INTERNATIONAL RESEARCH COLLABORATIONS:**

Quantititative Imaging Group, Delft University of Technology, The Netherlands.

Department of Orthopedics, Leiden University Medical Center, The Netherlands

Department of Orthopedics, Dalhousie University, Halifax, Nova Scotia, Canada

**NATIONAL RESEARCH COLLABORATIONS:**

Departments of Orthopedics and Radiology at the Regional Hospitals of Viborg, Herning, Holstebro, Randers, Vejle, Esbjerg, and Hvidovre, Denmark

Danish Technical University (DTU), Division of Medical Image Science, Copenhagen, Denmark.