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## Arbejds Erfaring

2009 - 2014 PhD Studerende ved Institut for Mekanik og Produktion  
Aug 2009 Udviklings ingeniør hos TKS A/S  
2008 -2009 Forsknings assistent ved Institut for Sundhedsvidenskab og Teknologi  
Aug. 08-Aug 09 Hjælpelære ved Institut for Matematiske fag, AAU  
Aug 07-Jan 08 Ingeniør trainee hos Mermaid Care A/S  
2006 -2010 Medstifter af firmaet 2B Engineering I/S  
2004-2007 IT studenter medhjælper hos Institut for Sundhedsvidenskab og Tteknologi,AAU

## Uddannelse

2002-2008 Civilingeniør i Sundhedsteknologi ved Aalborg Universitet  
1998-2001 Matematisk student fra Haderslev Katedralskole

## Priser og legater

2007 Modtog Oticon legater, som finansiering af afgangprojektet som Civilingeniør

## Videnskabelige artikler

**Running in circles: Describing running kinematics using Fourier series.** / Skejø, Sebastian Deisting; Lund, Morten Enemark ; Stensvig, Martin Thorhauge et al.  
I: Journal of Biomechanics, Bind 115, 110187, 22.01.2021.

**Current Preclinical Testing of New Hip Arthroplasty Technologies Does Not Reflect Real-World Loadings: Capturing Patient-Specific and Activity-Related Variation in Hip Contact Forces.** / Lunn, David E.; De Pieri, Enrico; Chapman, Graham J. et al.  
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**AnyPyTools: A Python package for reproducible research with the AnyBody Modeling System.** / Lund, Morten Enemark; Rasmussen, John; Andersen, Michael Skipper.  
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**Effects of a semi-rigid ankle brace on ankle joint loading during landing on inclined surfaces.** / Theodorakos, Ilias; Rüterbories, Jan; Lund, Morten Enemark et al.  
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**Balance training enhances motor coordination during a perturbed sidestep cutting task.** / Oliveira, Anderson Souza; Silva, Priscila de Brito; Lund, Morten Enemark et al.  
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**Development and functional demonstration of a wireless intraoral inductive tongue computer interface for severely disabled persons.** / Struijk, Lotte N. S. Andreasen; Lontis, Eugen Romulus; Gaihede, Michael et al.  
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**Ankle bracing effects on knee and hip mechanics during landing on inclined surfaces.** / Theodorakos, Ilias; Rüterbories, Jan; Lund, Morten Enemark et al.  
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**Scaling of musculoskeletal models from static and dynamic trials.** / Lund, Morten Enemark; Andersen, Michael Skipper; de Zee, Mark et al.  
I: International Biomechanics, Bind 2, Nr. 1, 2015, s. 1-11.

**Slipping during side-step cutting: anticipatory effects and familiarization.** / Oliveira, Anderson Souza; Silva, Priscila de Brito ; Lund, Morten Enemark et al.  
I: Human Movement Science, Bind 34, Nr. 1, 2014, s. 128-136.

**How good is good enough? Lessons in musculoskeletal model validation with the anybody modeling system.** / Petrella, Anthony; Rasmussen, John; Al-Munajjed, Amir et al.  
I: Journal of Medical Devices, Transactions of the ASME, Bind 7, Nr. 4, 12.2013, s. 1-2.

**Effects of Perturbations to Balance on Neuromechanics of Fast Changes in Direction during Locomotion.** / Oliveira, Anderson Souza; Silva, Priscila de Brito; Lund, Morten Enemark et al.  
I: P L o S One, Bind 8, Nr. 3, Article No. 59029, 2013, s. 1-13.

**Fast changes in direction during human locomotion are executed by impulsive activation of motor modules.** / Oliveira, Anderson Souza; Silva, Priscila de Brito; Lund, Morten Enemark et al.  
I: Neuroscience, Bind 228, 2013, s. 283–293.

## Konferencer

### **A two-step muscle/tendon-length calibration in musculoskeletal models**

Heinen, F., Lund, M. E., Damsgaard, M., Rasmussen, J. & de Zee, M., 2013, *ISB 2013, XXIV Congress of the International Society of Biomechanics, 4-9 August 2013, Natal, Brazil*. International Society of Biomechanics, ISB, s. 102, No. MODEL-MUSCULOSKELETAL.02

### **Calibration of tendon slack length and optimal fiber length from experimental measurements of arm strength**

Lund, M. E., Guenzkofer, F., Heinen, F., Damsgaard, M., de Zee, M. & Rasmussen, J., 2013, *Proceedings of the 14th International Symposium on Computer Stimulation in Biomechanics, ISCSB, 1-3 August 2013, Natal, Brazil*. International Society of Biomechanics, ISB, s. 11-12

### **Locomotor primitives: perspectives in relation to musculoskeletal modeling**

Kersting, U. G., Oliveira, A. S. C., Lund, M. E., Rasmussen, J. & Farina, D., 2013, *Annual Meeting of the Society for Neuroscience, Neuroscience 2013, 9-13 November 2013, San Diego, CA, USA*. Society for Neuroscience, s. No. 749.30/XX2

### **Mechanical effect of an ankle brace during landing: preliminary kinematic results**

Theodorakos, I., Rüterbories, J., Lund, M. E., Andersen, M. S., de Zee, M. & Kersting, U. G., 2013, *Proceedings of the 14th International Symposium on Computer Stimulation in Biomechanics, ISCSB, 1-3 August 2013, Natal, Brazil*. International Society of Biomechanics, ISB, s. 33-34

### **Scaling musculoskeletal models from dynamic motion capture trials**

Lund, M. E., Andersen, M. S., de Zee, M. & Rasmussen, J., 2013, *ISB 2013, XXIV Congress of the International Society of Biomechanics, 4-9 August 2013, Natal, Brazil [CD-ROM]*. International Society of Biomechanics, ISB, 2 s.

### **Comparing the plug-in gait model output to an individually scaled musculoskeletal model using an extensive normative data set**

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**Development of a musculoskeletal model for coffee-grinder design purposes**

Olesen, C. G., Lund, M. E., Sloth, S., Heinen, F., Nedergaard, N. J. & de Zee, M., 2011, *Program & Abstracts, 3rd Annual Meeting of the Danish Society of Biomechanics, 14 October 2011, Odense, Denmark*. Pedersen, K. T. & Søgaard, K. (red.). University of Southern Denmark

**Prediction of motion in musculoskeletal models**

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**Så få da den fok hjem!**

Olesen, C. G., Lund, M. E. & Rasmussen, J., 3 nov. 2010

**Prediction of knee loads using a lower extremity model based on the Klein Horsman data set**

Schwartz, C., Lund, M. E., de Zee, M. & Rasmussen, J., 2010, *Proceedings of the ASME [American Society of Mechanical Engineers] 2010 Summer Bioengineering Conference [CD-ROM]: SBC2010*. American Society of Mechanical Engineers, s. 269-270 2 s.

**The use of EMG in the validation of musculoskeletal models**

de Zee, M., Lund, M. E. & Rasmussen, J., 2010, *Abstracts of the XVIII Congress of the International Society of Electrophysiology and Kinesiology, ISEK 2010, 16-19 June 2010, Aalborg, Denmark [CD-ROM]*. Falla, D. & Farina, D. (red.). Aalborg: Department of Health Science and Technology. Aalborg University

**Validation of musculoskeletal models: the importance of trend validations**

de Zee, M., Lund, M. E., Schwartz, C., Olesen, C. G. & Rasmussen, J., 2010, *IUTAM 2010: IUTAM Symposium on Human Movement Analysis and Simulation, 13-15 September 2010, Leuven, Belgium*. Katholieke Universiteit, Leuven, 2 s.

**Validation of Musculoskeletal Models - Discussions for a PhD study**

Lund, M. E., 2009.

**Automatic detection of renovascular murmurs with an electronic stethoscope: a pilot study**

Lund, M. E., Buur, T. & Schmidt, S., 2008, *Book of Abstracts, Bioengineering 08, 18-19 September 2008, London, UK*. Imperial College London, Department of Bioengineering, s. 167