

# DennisMadsen

PhD Candidate - Medical Image Analysis



## contact

Theilerstrasse 7  
6300 Zug  
Switzerland  
+41 78 881 89 05

madsen\_dennis@icloud.com  
LinkedIn:dennis-madsen

## languages

Danish - native  
English - full professional  
German - intermediate

## programming

♥ Scala, Python  
C, C++, SQL, VHDL  
Matlab, Java  
LaTeX  
CSS, JavaScript & (x)HTML  
Django, Web2py, Flask Python  
Web Frameworks

## education

- 2017–Now **PhD** Computer Science Basel University, Switzerland  
Model-based medical image analysis by combining multiple independent statistical models.
- 2015–2017 **MSc** Computer Science Basel University, Switzerland  
*Thesis: Craniofacial modelling by combining statistical models of the face and the skull:* The outcome was a probabilistic model of the human skull and face built from independent shape models. The highest grade was received for my thesis.
- 2010–2014 **BSc** Electronic Design Engineering Aarhus University, Denmark  
*Thesis: Power quality analysis of wind turbines:* The outcome was a harmonic frequency analysis prototype implementation in a Texas Instrument DSP. The highest grade was received for my thesis.
- 2009–2010 **Pre-admission course** Aarhus University, Denmark  
2005–2009 **Electronic Industrial Technician** (elektronikfagtekniker) Mercantec Viborg, Denmark

## experience

- 2016–Now **Capana** Remote from Switzerland  
*Consultant* - Development projects and tool testing for Siemens Wind Power.
- 2014–2015 **Siemens Wind Power** Brande, Denmark  
*Embedded Software Support Engineer* - Work task optimisation to automatize manual procedures; software updates and support of Siemens Wind Turbine Controllers.
- 2009–2014 **Microdevelopment** Herning, Denmark  
*Owner* - Developing electronic speed tables for use in historical reliability races. Responsible for software development, web design and customer contact.
- 2013–2013 **Litepoint** Sunnyvale, California, USA  
*Electronic Engineer Intern* - Developing a test system interface resulting in an executable application running a local web server.
- 2006–2014 **KK-Electronic** Ikast, Denmark  
*Embedded Software Engineer Student / Electronic Industrial Technician Trainee*  
HW design, embedded SW (c), documentation, prototyping (mechanic, PCB, test scripting), and HW coding (VHDL). In the last year, I was primarily working on KK's Wind Turbine Control (WTC) system.

## publications

### international peer-reviewed conferences/proceedings

Probabilistic Joint Face-Skull Modelling for Facial Reconstruction  
Madsen, Dennis, Marcel Lüthi, Andreas Schneider, and Thomas Vetter  
*Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, 2018

## awards

- |      |   |
|------|---|
| 2018 | <p><b>Best Presentation Award</b> <span style="float: right;">Favignana, Sicily, Italy</span><br/>Recognition of the best poster presentation given at the Medical Imaging Summer School (MISS)<br/><a href="http://iplab.dmi.unict.it/miss/posters.htm">http://iplab.dmi.unict.it/miss/posters.htm</a></p>   |
| 2017 | <p><b>Price Winner</b> <span style="float: right;">CopenHacks, Copenhagen Hackathon</span><br/>Project: Social-Eyes - Enabling visually impaired persons to easily share images on social media.<br/><a href="https://www.youtube.com/watch?v=1l4iiC9J9to">https://www.youtube.com/watch?v=1l4iiC9J9to</a></p>  |
| 2016 | <p><b>Winner of - main sponsor (Logitech) challenge</b> <span style="float: right;">LauzHack, Lausanne Hackathon</span><br/>Project: GamEmotion - analysis of gamers emotions while playing, and a website to evaluate the data stream.<br/><a href="https://www.youtube.com/watch?v=3C0_xql0jyo">https://www.youtube.com/watch?v=3C0_xql0jyo</a></p> |