

## Carsten Stahlhut



Address :  
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Place / Date of Birth :  
Marital Status :

Kastanie Allé 7, 1.th. 2720 Vanløse, Denmark  
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carsten.stahlhut@gmail.com  
<http://www.stahlhut-online.dk>  
Rødovre, June 15<sup>th</sup> 1982  
Married, 2 children

### Education

2011

PhD in Mathematical Modeling, Technical University of Denmark  
Title: Functional Brain Imaging by EEG: A Window to the Human Mind

2008

MSc in engineering (electronics), Technical University of Denmark  
Grade point average: 11.7 (Danish 7-grades-scale)

2006

Bachelor of engineering (electronics), Technical University of Denmark  
Grade point average: 10.9 (Danish 13-scale).

### Employment

2012 (4 months)

Visiting Post.Doc. University of California, San Francisco (UCSF), Department of Radiology and Biomedical Imaging, Biomagnetic Imaging Laboratory, USA.

2012 (1/2 month)

Visiting Post.Doc. University of California, San Diego (UCSD), Institute for Neural Computation, Swartz Center for Computational Neuroscience, USA.

2011 - *present*

Post.Doc. Technical University of Denmark, Department of Informatics and Mathematical Modelling, Section for Cognitive Systems.

2010 (5 months)

Visiting PhD student University of California, San Francisco (UCSF), Department of Radiology and Biomedical Imaging, Biomagnetic Imaging Laboratory, USA.

2008 - 2011

PhD stipend, DTU Informatics, Technical University of Denmark.

2006 - 2007

Student assistant, Department of Tests, Danish Diagnostic Development, Denmark.

2004 - 2006

Student assistant, Department of Technology and Development, Radiometer Denmark.

### Qualifications

Modelling Skills

Non-linear Signal Processing, Multivariate Bayesian Statistics, Real-time Processing, Dynamical Systems, Pattern Recognition, Convex Optimization.

Methods

Variational Bayes, MCMC Sampling, Kalman Filter, Neural Networks, Support Vector Machine, Kernel methods, Gaussian Processes, Hidden Markov Models.

Programming

Matlab, Qt, C/C++, VHDL, HTML, Delphi/Pascal.

Operating Systems

Windows, Unix, Linux.

Languages

Danish (native), English (excellent proficiency), German (moderate proficiency).

## Professional Activities

Publications

Refereed journal papers / conference papers / abstracts: 2 / 8 / 6 .  
*In review*: 2 journal papers / 2 conference papers / 1 abstract .

Demos

Workshop on Brain Machine Body Interfaces (2012), Medico Bazar (2012), Neural Information Processing Systems (2011), and Medico Innovation Devices'n Apps (2011).

Reviewing

Neuroimage, IEEE Transactions on Neural Networks and Learning Systems, Human Brain Mapping, and Frontiers in Brain Imaging Methods.

Media Coverage

*International*: Nokia Conversations (Oct 25<sup>th</sup>, 2011), Washington Post (Sep 20<sup>th</sup>, 2011), Wall Street Journal (Sep 20<sup>th</sup>, 2011), New Scientist (Sep 14<sup>th</sup>, 2011), TechCruch (Sep 19<sup>th</sup>, 2011), PhysOrg.com (Sep 19<sup>th</sup>, 2011), Engadget (Sep 16<sup>th</sup>, 2012).

*National*: P1 Harddisken (Dec 7<sup>th</sup>, 2011), DR Penge (Oct 12, 2011), P1 Videnskabens Verden (Oct 4, 2011), Ekstra Bladet (Sep 28<sup>th</sup>, 2011), Jyllands-Posten (Sep 23<sup>rd</sup>, 2011), Videnskab.dk (Sep 22<sup>nd</sup>, 2011), Børsen (Sep 20<sup>th</sup>, 2011), Ingeniøren (Sep 20<sup>th</sup>, 2011), Politiken (Sep 19<sup>th</sup>, 2011), Videnskab.dk (Mar 3<sup>rd</sup>, 2011), TV2-Lorry (Mar 3<sup>rd</sup>, 2011).

Teaching Assistant

3 M.Sc. projects (2012).  
Non-Linear Signal Processing, DTU course 02457 (2008, 2009, 2011).  
Applied Digital Signal Processing, DTU course 02453 (2009)  
Machine Learning for Signal Processing, DTU course 02459 (2009).  
Electronics, DTU course 31021 and 31510 (2003, 2004).

## Awards

2012

Postdoc grant by The Danish Council for Independent Research | Technology and Production Sciences (2,050,885 DKK).

2012

Postdoc grant by Lundbeckfonden (600,000 DKK).

2012

Nominated for Netexplo 2012 (in top 100 of most promising digital projects).

2008

DTU PhD stipend.

2007

ITMAN Elite Student Scholarship (DTU Informatics Graduate School ITMAN).

## Interests

Research

Machine learning. Real-time processing. Big data sets. Inverse problems. Approximate inference. Non-parametric Bayes. High Performance Computing.

Personal

Running. Badminton. Travelling.