

Curriculum Vitae

Therese Annika Sabine Reinfeldt

Date of birth: 11th of April, 1978
Place of birth: Stockholm, Sweden
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Education:

Febr 2003 – June 2009: Graduate studies in the Hearing Research Group, Division of Biomedical Engineering, Department of Signals and Systems, Chalmers University of Technology, Göteborg, Sweden. (Parental leave 2007-07-30 – 2008-07-27)
Aug 1997 – Jan 2003: Engineering Physics, Chalmers University of Technology, Göteborg, Sweden
1994 – 1997: Nature science program, Njudungs gymnasieskola, Vetlanda, Sweden

Present position:

From February 2010: Postdoc, Department of Signals and Systems, Chalmers University of Technology, Göteborg, Sweden. Research of a new bone conduction implant combined with course responsibility and teaching in Biomedical Instrumentation. (Parental leave 2010-03-22 – 2010-12-31 and part time parental leave 2011-01-01 – 2011-04-30)

Relevant prior positions:

July 2009 – Jan 2010: Project assistant/lector, Department of Signals and Systems, Chalmers University of Technology, Göteborg, Sweden. Course responsibility and teaching in Biomedical Instrumentation combined with research.
June 2002 – Jan 2003: Samba Sensors AB, Göteborg: Master thesis work
June 2000 – Aug 2001: Ortivus AB, Göteborg: Software development, project employment
June 1999 – July 1999: École Polytechnique Fédérale de Lausanne, Switzerland: Research practice

Degrees:

June 2009: Doctor of Philosophy in Biomedical Engineering, Chalmers University of Technology. Title: “Bone Conduction Hearing in Human Communication – Sensitivity, Transmission, and Applications”
September 2006: Licentiate of Engineering in Biomedical Engineering, Chalmers University of Technology. Title: “Bone conducted sound transmission for communication systems”

January 2003: Master of Science in Engineering Physics with Biomedical Engineering, Chalmers University of Technology.

Rewards:

2006: Outstanding Poster Award, National Hearing Conservation Association at the 2006 Annual Conference, Tampa, USA
2006: S2s Pedagogiska Pris (Pedagogical Prize of the Department of Signals and Systems)

Teaching courses:

Biomedical instrumentation, master level (examiner): 2009, 2011
Biomedical instrumentation, master level (course assistant): 2004, 2005, 2006, 2007
Microelectronics, second year undergraduate (course assistant): 2003, 2004, 2005, 2006, 2007, 2009
Laboratory supervision in first year undergraduate electronic courses: 2003, 2004, 2005, 2006, 2007.

Language skills:

Swedish: Native language
English: Fluently, both in writing and speaking
German: Understand and speak; have studied the language for six years.
French: Understand and speak a little; have studied the language for three years.

Publications:

1. Papers – peer reviewed

- 1) **Sabine Reinfeldt**, Stefan Stenfelt, and Bo Håkansson, 2006, *Transcranial transmission of bone conducted sound measured acoustically and psychoacoustically.*, Proceeding of the 4th International Symposium of Middle Ear Mechanics in Research and Otology, Zürich, Switzerland, 2006: 276-281.
- 2) **Sabine Reinfeldt**, Stefan Stenfelt, Tobias Good, and Bo Håkansson, 2007, *Examination of bone-conducted transmission from sound field excitation measured by thresholds, ear-canal sound pressure, and skull vibrations.*, J Acoust Soc Am. 121(3): 1576-1587.
- 3) Stefan Stenfelt and **Sabine Reinfeldt**, 2007, *A model of the occlusion effect with bone conduction stimulation.* Int J Audiol. 46: 595-608.
- 4) Bo Håkansson, Måns Eeg-Olofsson, **Sabine Reinfeldt**, Stefan Stenfelt, and Gösta Granström, 2008, *Percutaneous Versus Transcutaneous Bone Conduction Implant System: A Feasibility Study on a Cadaver Head.* Otology and Neurology 29, 1132-1139.
- 5) Bo Håkansson, **Sabine Reinfeldt**, Måns Eeg-Olofsson, Per Östli, Hamidreza Taghavi, Johannes Adler, John Gabrielsson, Stefan Stenfelt, Gösta Granström, 2010, *A novel bone conduction implant (BCI) – engineering aspects and preclinical studies.* International journal of audiology, 49(3): 203-215.
- 6) **Sabine Reinfeldt**, Per Östli, Bo Håkansson and Stefan Stenfelt, 2010, *Hearing one's own voice during phoneme vocalization—Transmission by air and bone conduction.* J. Acoust. Soc. Am. 128 (2): 751-762.
- 7) Måns Eeg-Olofsson, Stefan Stenfelt, Bo Håkansson, Hamidreza Taghavi, **Sabine Reinfeldt**, Per Östli, Gösta Granström, 2011, *Optimal position of a new bone conduction implant.* Cochlear implants international, 12 (Suppl 1), S136-8.

2. Papers – others

- 1) **Sabine Reinfeldt**, 2006, *Bone conducted sound transmission for communication systems.* Licenciatavhandling ISSN 1403-266X.
- 2) **Sabine Reinfeldt**, 2009, *Bone Conduction Hearing in Human Communication – Sensitivity, Transmission, and Applications.* Doktorsavhandling ISSN 0346-718X.

3. Conference contributions – abstracts

- 1) **Sabine Reinfeldt**, Stefan Stenfelt, Bo Håkansson, 2005, *Bone conduction sensitivity to sound field stimulation.* 7th European Federation of Audiological Societies Congress, Göteborg, Sweden.
- 2) Stefan Stenfelt, **Sabine Reinfeldt**, 2005, *Human body conduction sensitivity in a sound field.* Internoise 2005, Rio de Janeiro, Brazil.
- 3) **Sabine Reinfeldt**, Stefan Stenfelt, Tobias Good, Bo Håkansson, 2006, *Bone conduction sensitivity to sound field stimulation: Measurements of REAT, MIRE, and vibrations of the skull bone.* 31st Annual Hearing Conservation Conference, Tampa, Florida, USA.

- 4) **Sabine Reinfeldt**, Stefan Stenfelt, Bo Håkansson, 2006, *Transkraniel dämpning av benledningsljud mätt akustiskt och psykoakustiskt*, TeMA Hörsel 2006, Göteborg, Sweden.
- 5) **Sabine Reinfeldt**, Stefan Stenfelt, Bo Håkansson, 2006, *Transcranial attenuation of bone conducted sound, acoustically and psycho acoustically measured*, 4th International Symposium on Middle Ear Mechanics in Research and Otology, Zurich, Switzerland.
- 6) **Sabine Reinfeldt**, Stefan Stenfelt, Bo Håkansson, 2006, *Transmission of bone conducted sound measured acoustically and psycho-acoustically*, 4th joint meeting of the Acoustical Societies of America and Japan, Honolulu, Hawaii, USA.
- 7) Stefan Stenfelt, **Sabine Reinfeldt**, 2006, *A model of own-voice perception with hearing aid usage*, 4th joint meeting of the Acoustical Societies of America and Japan, Honolulu, Hawaii, USA.
- 8) **Sabine Reinfeldt**, Stefan Stenfelt, Bo Håkansson, 2006, *Bone conducted transmission from a sound field estimated by thresholds, ear canal sound pressure and skull vibrations*, Baltic-Nordic Acoustics Meeting 2006, Göteborg, Sweden.
- 9) Bo Håkansson, Måns Eeg-Olofsson, **Sabine Reinfeldt**, Stefan Stenfelt, Gösta Granström, 2007, *A transcutaneous bone conduction hearing device– a feasibility study of a complete system*, First international symposium: Bone conduction hearing and osseointegration, 2007, Halifax, Nova Scotia, Canada.
- 10) Bo Håkansson, Måns Eeg-Olofsson, **Sabine Reinfeldt**, Stefan Stenfelt, Gösta Granström, 2008, *A transcutaneous bone conduction implant system– a future alternative to the percutaneous BAH system?*, IHCON (International Hearing Aid Research Conference), Lake Tahoe, USA.
- 11) Bo Håkansson, **Sabine Reinfeldt**, Måns Eeg-Olofsson, Per Östli, Hamidreza Taghavi, John Gabriellsson, Johannes Adler, Stefan Stenfelt, and Gösta Granström, 2009, *A novel bone conduction implant (BCI)*, 2nd International Symposium on Bone Conduction Hearing - Craniofacial Osseointegration”, Göteborg, Sweden.
- 12) **Sabine Reinfeldt**, Per Östli, Stefan Stenfelt, and Bo Håkansson, 2009, *Differences in bone and air conduction transmission of one's own voice during phoneme vocalization*, 2nd International Symposium on Bone Conduction Hearing - Craniofacial Osseointegration, Göteborg, Sweden.
- 13) Per Östli, Bo Håkansson, **Sabine Reinfeldt**, Hamidreza Taghavi, 2009, *Optimization of the BEST transducer for a transcutaneous bone conduction hearing system*, 2nd International Symposium on Bone Conduction Hearing - Craniofacial Osseointegration, Göteborg, Sweden.
- 14) Hamidreza Taghavi, Bo Håkansson, **Sabine Reinfeldt**, Per Östli, 2009, *Radio Frequency (RF) power management and speech signal transmission in a wireless solution for Transcutaneous Bone Conduction Implant Systems*, 2nd International Symposium on Bone Conduction Hearing - Craniofacial Osseointegration, Göteborg, Sweden.
- 15) **Sabine Reinfeldt**, Per Östli, Bo Håkansson, Hamidreza Taghavi, Stefan Stenfelt, 2011, *Hearing One's Own Voice – Sensitivity Difference Between Bone And Air*

Conduction Transmission, 3rd International Symposium on Bone Conduction Hearing – Craniofacial Osseointegration, Sarasota, FL, USA.

- 16) Per Östli, Joakim Stahlfors, Bo Håkansson, Lennart Svensson, **Sabine Reinfeldt**, Måns Eeg-Olofsson, Hamidreza Taghavi, 2011, *Study Of The Feasible Size Of A Bone Conduction Implant (BCI) In The Temporal Bone*, 3rd International Symposium on Bone Conduction Hearing – Craniofacial Osseointegration, Sarasota, FL, USA.
- 17) Hamidreza Taghavi, Bo Håkansson, **Sabine Reinfeldt**, Per Östli, 2011, *A Novel Bone Conduction Implant (BCI) System*, 3rd International Symposium on Bone Conduction Hearing – Craniofacial Osseointegration, Sarasota, FL, USA.
- 18) Hamidreza Taghavi, Bo Håkansson, **Sabine Reinfeldt**, Måns Eeg-Olofsson, 2012, *A Novel Bone Conduction Implant (BCI) – Analog Radio Frequency Data and Power Link Design*, 9th IASTED International Conference on Biomedical Engineering, Innsbruck, Austria.