

Short Curriculum Vitae

Prof. Dr.-Ing. Bernhard U. Seeber

Audio Signal Processing, Dept. of Electrical Engineering and Information Technology
Technische Universität München, 80290 Munich, Germany
ph.: +49-174-928-6338 (mobile), ph.: +49-89-289-28282 (office)

Practical and Scientific Experience

- Since 08/2012 **Technische Universität München, Germany, and
Professor Bernstein Center for Computational Neuroscience, Munich.**
Professor of Audio Information Processing.
- 01/2007 – 07/2012 **MRC Institute of Hearing Research Nottingham, UK**
Programme Leader Track Buildup and supervision of MRC-funded research group on
auditory perception and signal processing of normal hearing,
hearing impaired and cochlear implant (CI) listeners with focus on
binaural hearing. Lab setup, grant applications, scientific and
personal development of four PhD students and two post-docs.
- 06/2003 – 12/2006 **University of California at Berkeley, USA**
Post-doctoral Scientist Auditory Perception Lab, Dept. of Psychology, Prof. E. Hafter
Research on physical and perceptual aspects of concurrent sound
sources and the impact of echoes on binaural perception of normal
hearing, hearing impaired, and cochlear implant subjects.
Development of a multi-channel environment for auditory research
in free-field space coupled to an interactive visual environment.
- 03/1999 – 05/2003 **Technical University Munich, Germany**
Dissertation Chair for Man-Machine-Communication, Dept. of Electrical
Engineering, Prof. H. Fastl
Development and test of a new method to study auditory
localization and application of it to virtual acoustics, auditory-visual
interaction and binaural hearing with cochlear implants.
- 03/1995 – 01/2003 **Own Company** for consulting and sales of computer hardware,
musical electronics, and administration of computer networks.
- 05/1997 – 10/1997 **AT&T Labs Research, NJ, USA**, Internship, Dr. Rabbiner,
and Dr. Allen, Psychoacoustics and auditory signal processing.

Education

- 03/1999 – 05/2003 **Technical University Munich**, Germany
Doctoral degree Chair for Man-Machine-Communication, Prof. H. Fastl
Topic: “Investigation of auditory localization using a light-pointer method”, graded with “summa cum laude” (excellent).
- 11/1993 – 02/1999 **Technical University Munich**, Germany
Diploma course (BSc + MSc) **Electrical engineering and information technology**
Focus on psychoacoustics, signal processing, audio communication, system and information theory; Grade 1.5 (very good).
Diploma thesis Advisor: Prof. E. Terhardt: “On the frequency selectivity of hearing: Relations between masking patterns and tuning curves”, Grade 1.0 (excellent).
- 06/1992 **Finsterwalder Gymnasium** (high school), Rosenheim
Abitur Main subjects mathematics, physics; Grade 1.3 (very good).

Selected Grants and Cooperations

- 04/2012 – 03/2017 Project on cochlear implantation funded by NIHR via the Natl. Biomedical Research Unit in Hearing in Nottingham; £567k.
- 04/2009 – 04/2015 Core-funding of my research group by the MRC, £1.54M.
- 01/2007 – 04/2009 Core-funding of my research group by the MRC, £568k.
- 01/2007 Emmy-Noether Fellowship by the DFG, €1.4M (returned).
- since 2008 Cooperation with and funding by cochlear implant companies.
- since 08/2005 Cooperation with Starkey Hearing Research Center, Berkeley.
- 09/2004 Grant by the National Organization for Hearing Research, \$15k.

Selected Teaching Experience

- 2000 – 2012 Supervision of 4 PhD, 6 MA/Diploma and 7 BSc theses plus 7 internship students on various topics in hearing research.
- 2010 – 2012 Teaching in BSc and MSc programme at DeMontford University.
- 2000 – 2003 Teaching and assistance in courses at the Technical University München on technical and musical acoustics and in seminars.
- 1993 – 1995 Guitar teacher at private music school.

Selected Awards and Scientific Achievements

Journal reviews (selection)	For JARO, Ear & Hearing, Hearing Res., Int. J. Audiol., Otology & Neurotol., Audiol. & Neurotol., Exp. Brain Res., JASA, Acustica, EURASIP J. Adv. Signal Proc.; IEEE Systems, Man & Cybernetics.
Grant reviews	For NIHR, DRUK, RNID, DFG.
Invited Talks (selection)	CIAP, ASA, EAA, ICA, DAGA, BSA, BAA, BSHAA conferences; Seminars at Stanford Univ., House-Ear Institute LA, Kresge-Institute UCSF, ISVR Southampton, DTU Copenhagen.
PhD examiner	2011: Cardiff; 2010: ISVR Southampton, DTU Copenhagen.
From 04/2012	Research Lead for the cochlear implantation research area at the National Biomedical Research Unit in Hearing in Nottingham.
2012	Organization of structured session at ASA/ASC/WESPAC.
Since 11/2011	Honorary Associate Professor, School of Clinical Sciences, Faculty of Medicine and Health Sciences, University of Nottingham.
03/2010	Cremer Award of the German Acoustical Society, €2,000.
11/2009	Best paper award by the Society for Information Technology (ITG) for Seeber and Fast, JASA, 2008, endowed with €3,000.
2009	Organisation 2 nd European Career Workshop in Hearing Science.
2008	Co-organization of the Meeting of the British Society of Audiology;
01/2007	Emmy-Noether Fellowship by the DFG, €1.4M.
11/2004	Award for an exceptional doctoral thesis by the ITG, €2,000.

Professional Memberships

04/2010 – 2012	Elected to the Council of the German Acoustical Society (DEGA).
05/2009 – 04/2012	Elected to the Psychoacoustics and Physiological Acoustics Committee of the Acoustical Society of America (ASA).
Since 2005	Acoustical Society of America (ASA).
Since 2005	Member of the “Hearing Acoustics” committee of the DEGA.
Since 2005	Association for Research in Otolaryngology (ARO).
Since 2004	Board member of the section “Hearing Acoustics” of the ITG.
Since 2003	German Society for Information Technology (ITG) and German Society of Electrical Engineers (VDE).
Since 2000	German Acoustical Society (Dt. Gesellschaft für Akustik – DEGA).