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Education

1996 PhD (UvA, Amsterdam) [1]; Promotors: C.A. Grimbergen (Medical Physics) and M.J. Janse (Experimental Cardiology)

1989 MSc Physics (University of Amsterdam, Amsterdam)[2] (including '1e graads bevoegdheid')

Workexperience

2015 Physics Teacher at highschool, Vinseschool in Amsterdam and Luzac in Alkmaar.

2015 Teacher at the TU Delft. Part time, subject: Bioelectricity.

2011–2014 Post Doc/ Researcher at the AMC. Fulltime, STW project 10959 and BMM project ICARUS.

2009–2011 Post Doc/ Researcher at the AMC. Fulltime, except during the teaching period.

2009–2010 Teacher at the University of Applied Science in Amsterdam (Hogeschool van Amsterdam. Part-time 50%.

2006–2009 Postdoc NHS project 2005b92 A non-invasive modality to determine pro-arrhythmic mechanisms in primary sodium channelopathies AMC, Amsterdam

2005 - 2006 Post Doc/Researcher at the AMC.

2003 – 2005 Postdoc AMC/Hart Lung Centrum Utrecht, NHS project 2002b087 Arrhythmogenic Late Potential Imaging by Non-Invasive Electrocardiography (ALPINE).

2003 Assistant Professor 50 % at the Hart Lung Centrum Utrecht and 50% AMC, Amsterdam

2001 – 2002 Postdoc 50 % at the Hart Lung Centrum Utrecht and 50% AMC, Amsterdam

1996 – 2001 Postdoc STW project Localization of arrhythmias by combining biplane x-ray, catheter-mapping and body surface mapping, AMC, Amsterdam.

1989-1996 Researcher STW (Dutch Technology Foundation) project: Development of a system for on-site processing and analysis of body-surface-maps

1989 Researcher AMC, Amsterdam.

Memberships of boards, committees and professional organizations

2015 - current	Secretary of the regional (Zaanstreek) professional artists foundation 'Tengel' (www.tengel.nl)
2015 - current	Past-Chair of the Council of Societies of the IFMBE
2014 - current	Chair of the 'Zien Weten Kunnen' Foundation that pro-
	motes art, science and technology education at primary
	schools (www.zienwetenkunnen.nl)
2013 - current	Secretary General of the European Alliance for Med-
	ical and Biological Engineering & Science, EAMBES
	(www.eambes.org)
2012 - 2015	Member of the Administrative Council of the Interna-
	tional Federation for Medical and Biological Engineer-
	ing, IFMBE (www.ifmbe.org)
2012 - 2015	Chair of the Council of Societies of the IFMBE
$2012 - \mathrm{current}$	Member committee Women in Medical and Biological
	Engineering of the IFMBE
2012 - 2014	Member committee ICT and Research, AMC
2009 - current	Member Working Group Developing Countries of the
	IFMBE
2006 - current	Member of the board of the Vereniging voor Biofysica
	& Biomedische Technology (VvB-BMT, Dutch Biophys-
	ical society, www.BioPM.nl)
2006 - 2012	Member Societies Committee of the IFMBE
1985 - 1987	Member of the board, subfaculty of Physics and Astro-
	physics of the University of Amsterdam.
1982 - 1989	Member of various committees within the subfaculty.

Research interests

- 64 channel ECG (Body Surface Mapping) as a means to study localized phenomena in the heart.
- Signal and image processing
- 3D reconstruction. E.g. for creation of 3D volume conduction models of specific patients
- Programming, visualization of data and building user-interfaces
- Combining data from different systems and interfacing between systems
- Data storage, data integrity, Electronic Patient Records, security

Supervision

- Copromotor of dr. ing. M.J. v/d Horst (electrical engineer, 2012) [3]
- Copromotor of dr. P.F.H.M. van Dessel (MD, 2001) [4].
- Copromotor of dr. M. Potse (physics, 2001)[5].
- Supervisor MSc and Bachelor students.

Publications

see separate list of publications. http://www.bytehouwer.nl/publications.nl

Hobbies

- Foundations of computer science, in particular correctness of programs.
- Ceramics, paper mache and other (virtual) 3D modelling techniques.
- Scientific visualization, Visualization of complex data, design of book covers for theses.

References

- [1] A. C. Linnenbank, On-site recording, analysis, and presentation of multichannel ECG data. PhD thesis, University of Amsterdam, The Netherlands, Aug. 1996. e-mail: a.c.linnenbank@amc.uva.nl.
- [2] A. C. Linnenbank, "Software to analyse body surface maps," Master's thesis, University of Amsterdam, The Netherlands, 1989.
- [3] M. J. van der Horst, Systematic Design of EMI-resilient Negative-feedback Amplifiers. PhD thesis, Technical University of Delft, The Netherlands, Sept. 2012.
- [4] P. F. H. M. van Dessel, Visualization and functional characterization of the postinfarction arrhythmogenic substrate. PhD thesis, University of Utrecht, The Netherlands, Nov. 2001. e-mail: p.van.dessel@deskart.nl.
- [5] M. Potse, *Integrated Electrocardiographic Mapping*. PhD thesis, University of Amsterdam, The Netherlands, Dec. 2001. e-mail: mark@potse.nl.