

Kim Joris Boström
Curriculum Vitae
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Personal Data

Date of birth 1972/12/01
Place of birth Düsseldorf
Nationality German
Family status Married, 1 child
Location Münster, Germany
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Education and Professional Career

Since 04/2010 Westf.-Wilh.-Universität Münster, sportwissenschaftliches Institut, Arbeitsbereich Bewegungswissenschaften: **Scientific assistant (Postdoc)**; Topic: "Chronic back pain and sensory-motor control: towards a model based diagnostic toolbox"; supported by the Bundesministerium für Bildung und Forschung (BMBF)

06/2009 - 09/2009 Parental leave

09/2004 - 05/2009 Westf.-Wilh.-Universität Münster, Psychologisches Institut: **Scientific assistant (Postdoc)**; Topic: "Reliability of the processing of visual motion information in the human brain"; supported by the Volkswagenstiftung

06/2004 **PhD in Physics** at the University of Potsdam (Dr. rer. nat.); Topic of Dissertation: "Lossless Quantum Data Compression and Secure Direct Communication"; grade "magna cum laude"

11/2003 - 07/2004 University of Potsdam, Practical courses in physics: **Engineer/advisor**

10/1999 - 10/2003 University of Potsdam, quantum optics group: **Scientific assistant (PhD)**; Topic: "Quantum communication and quantum cryptography"; supported by the Deutsche Forschungsgemeinschaft (DFG)

Since 10/1999 Part-time job as **Web Designer**: Programming of Web sites for companies, actors, musicians; Co-editor of the online magazin "Virtuelles Magazin 2000", www.vm2000.net

05/1997- 09/1999 Company KSR Net Technics, Freiburg: **Database-Programmer and Web Designer**; using HTML, Java, Javascript, PERL, KSR-Gate

04/1999 **Diploma** in Physics at the Albert-Ludwigs-Universität Freiburg. Topic: "Decay and irreversibility - the generalized quantum mechanics of the Brussels school"; grade: good

10/1994 - 04/1999 Albert-Ludwigs-Universität Freiburg: Study of Physics

Education and Professional Career

10/1993 - 09/1994	Université de Paris XI: Study of Physics
10/1992 - 09/1993	RWTH Aachen: Study of Physics
07/1991 - 09/1992	Old-age home St. Johannis, Hamburg: civilian service
06/1991	Friedrichsgymnasium Herford: Abitur; grade: 1.9

Scientific Publications

2011	Wagner H, Boström KJ, Rinke B (2011). Predicting isometric force from muscular activation using a physiologically inspired model. <i>Biomech Model Mechanobiol.</i>
2010	Boström KJ, Honnacker A, Ziesche A (2010). Acting on Gaps - John Searle's Conception of Free Will. In D. Franken, A. Karakus, and J.G. Michel (editors), <i>Thinking About the Real World</i> . Ontos. ISBN 978-3868380965.
	Boström KJ, Warzecha AK (2010). Open-loop Speed Discrimination Performance of Ocular Following Response and Perception. <i>Vision Research</i> 50, 870–882.
2009	Boström KJ, Warzecha AK (2009). Ocular Following Response to Sampled Motion. <i>Vision Research</i> 49, 1693-1701.
2008	Boström KJ, Felbinger T (2008). On the security of the ping-pong protocol. <i>Physics Letters A</i> , 372(22):3953–3956.
2007	Boström KJ (2007). Lossless Quantum Data Compression and Secure Direct Communication: New concepts and methods for quantum information theory. Vdm Verlag. ISBN 3836446944.
2005	Hoffmann H, Bostroem KJ, Felbinger T (2005). Comment on "Secure direct communication with a quantum one-time pad". <i>Phys. Rev. A</i> 72, 016301.
2002	Bostroem KJ, Felbinger T (2002). Deterministic Secure Direct Communication Using Entanglement. <i>Phys. Rev. Lett.</i> 89, 187902.
2002	Bostroem KJ, Felbinger T (2002). Lossless quantum data compression and variable-length coding. <i>Phys. Rev. A</i> 65, 032313.

Reviewing

Since 10/2002	Acted as reviewer for <i>Physical Review Letters</i> , <i>Physical Review A</i> , <i>Journal of Physics A</i> , <i>European</i> , <i>Physical Journal D</i> , <i>IEEE Transactions on Information Theory</i> , <i>Europhysics Letters</i> , <i>Transactions on Computers</i> , <i>Optics Communications</i> , <i>Quantum Information Processing</i>
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Languages

Mother language German; English fluent in spoken and written; French good in spoken and written; basic knowledge in Romanian

Programming and Software Skills

Systems	MacOS X, Windows, Linux, Unix
Programming languages	C, C++, Objective-C/Cocoa, OpenGL, MATLAB/Simulink/SimMechanics, PERL
Office applications	Latex, MS Office, OpenOffice, iWorks
Graphics applications	Photoshop, CorelDRAW, Gimp, OmniGraffle
Music software	Cubase, Logic, Ableton Live, Reaktor, Kontakt, Reason
Web Design	HTML, CSS, PHP, Freeway, Joomla

Interests and Hobbies

Songwriting, Composition and Music production with voice, guitar and computer; Philosophy; Drawing and Design; Reading; Writing

References

PD Dr. Anne-Kathrin Warzecha	Lehrstuhl für Neurobiologie Universität Bielefeld 33501 Bielefeld +49-521-106-5578 ak.warzecha@uni-bielefeld.de
Prof. Dr. Markus Lappe	Psychologie und Sportwissenschaft Westf.-Wilh.-Universität Münster Fliednerstr. 21 48149 Münster +49-251-83-34172 mlappe@uni-muenster.de
Prof. Dr. Martin Wilkens	Institut für Physik Universität Potsdam Karl-Liebknecht-Strasse 24/25 14476 Potsdam-Golm +49-331-977-1706 Martin.Wilkens@physik.uni-potsdam.de
Dr. Hartmut Schmidt	Institut für Physik Universität Potsdam Karl-Liebknecht-Strasse 24/25 14476 Potsdam-Golm +49-331-977-5889 hschmidt@uni-potsdam.de

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