

Jan-Philip Gehrcke

curriculum vitae

Personal profile

date of birth May 10th, 1986
citizenship German
personal status unmarried

Education

10/2005 – 04/2009
and 09/2009 – 03/2010 **M. Sc. hon. in physics** at Universität Würzburg (“FOKUS Physik”).
“FOKUS Physik” is an eight-semester elite graduate program at the University of Würzburg within the *Elite Network of Bavaria*. Its final degree is a *Master of Science with Honors* (M. Sc. hon.) in physics. “[...] the primary goal is to introduce highly motivated and talented students with strong research interest as early as possible to cutting-edge science. [...] The duration of the studies is also reduced by shifting some courses to the lecture-free periods, by in-semester examinations, and by individual supervision.”

- **2010:** **M. Sc. hon.** (143 of 120 required ECTS points, grade 1.0 – “excellent”)
- **2008:** **B. Sc.** (191 of 180 required ECTS points, grade 1.3 – “excellent”)
- **2007:** **Vordiplom** (intermediate diploma, grade “very good”)

06/1998 – 05/2005 **Abitur** (university-entrance diploma) at Gymnasium Adolfinum, Bückeberg.
Focus on mathematics/physics/computer science; grade 1.7

Research experience

11/2008 – 04/2009
and 09/2009 – 03/2010 **M. Sc. thesis project** at Universität Würzburg (Department of Experimental Physics 5: Biophysics). “*Characterization of the Magnetic Particle Imaging signal based on theory, simulation, and experiment*”.

04/2009 – 09/2009 **Google Summer of Code student project** at the The Globus Alliance (Argonne National Laboratory/University of Chicago, “Nimbus Infrastructure-as-a-Service cloud” group). “*Distribution of computing jobs among different clouds (Nimbus, AWS)*”. (<http://gehrcke.de/gsoc>)

08/2008 – 04/2009 **Student project** at Max-Planck-Institut für Physik, München. “*Amazon Web Services for ATLAS Computing*”. (<http://gehrcke.de/awsac>)

09/2007 – 12/2007 **B. Sc. thesis project** at Max-Planck-Institut für biophysikalische Chemie, Göttingen. “*Diffusionstensor-Magnetresonanz-Tomographie des menschlichen Gehirns zur Rekonstruktion von Nervenfaserbahnen: Einfluss der nicht diffusionsgewichteten Bilder*”.

Languages

German	native
English	fluent (TOEFL test result from May 2009: 110 of 120 points)
French	proficient (classes 5 – 11 in school)

Computer skills

programming languages	Expert in Python ; proficient in C/C++ . Working knowledge of other languages.
scientific programming	Professional handling of Matlab and Mathematica .
web programming	Working knowledge of PHP , MySQL ; proficient in HTML and CSS .
system administration	Expert in GNU/Linux and Windows systems; advanced knowledge of networks .
cloud/grid computing	Expert in Amazon Web Services and Virtual Workspaces .
document composition	Proficient in L^AT_EX , office suits and other documentation generators .
special applications	Proficient handling of Origin and other scientific software . Advanced knowledge of digital media processing ((vector-)graphics, sound, video).

Interests

- friends, listening to music (incl. concerts/festivals), reading, cooking
- programming, computer hardware
- sports (fencing, athletic sports)

October 1st, 2010

Jan-Philip Gehrcke

*updates: <http://gehrcke.de>
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