Curriculum vitæ
Dr. rer. nat. Frank Löffler

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Appointments

11/2017 – **Postdoctoral Researcher**
Department of Mathematics and Computer Science
University Jena, Jena, Germany

07/2011 – 07/2017 **IT Consultant and Researcher**
Center for Computation and Technology
Louisiana State University, Baton Rouge, USA

- research project manager
- consultant for IT and software engineering
- teaching at college level

12/2007 – 06/2011 **Postdoctoral Researcher**
Center for Computation and Technology
Louisiana State University, Baton Rouge, USA

- Research into collision of black holes and neutron stars
- Optimizing efficiancy of scientific high-performance-computing simulations

11/2005 – 11/2007 **Postdoctoral Researcher**
SISSA (International School for Advanced Studies)
Trieste, Italien

- Research into collision of black holes and neutron stars

Academic Education

2001 – 2005	PhD in Physics	Max–Planck–Institute for Gravitational Physics Potsdam, Germany
2000 – 2001	Physics Diplom (Master)	Friedrich–Schiller–University Jena, Germany
1996 – 2000	Physics Vordiplom (Bachelor)	Chemnitz University of Technology, Germany

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Stipends

2005 – 2007	VESF/EGO Postdoctoral Stipend
1998 – 2001	Undergraduate stipend by the The German National Merit Foundation

Qualifications

Research Leadership

- leading international community projects, e.g., the "Einstein Toolkit" with over 100 registered researchers from over 70 institutes world-wide.
- obtaining third party funding
- planning and hosting of international meetings, both project-internal and to advertise research projects to a wider audience.
- local supervision of students

Obtaining third Party Funding

- integral part of my current position
- budget sum of all projects I was involved in: almost 6 million US dollar
- out of those about $1 million as principal investigator
- more projects proposed, for about $4 million in total

Personnel management

- advising students from small projects for undergraduates to PhD students in physics and computer science
- strong emphasis on interdisciplinary education
- evidence of success of this approach: two graduates that recently left our group to continue their careers at Facebook and Intel

Love for Education

- regular college-level courses
- emphasis especially on a high level of interaction even in otherwise "traditionally taught" courses, due to my believe that this method lead to a higher student success rate
- voluntary coach of an elementary school robotics team, mentor of a high-school robotics team and judge at high-school science fairs up to US state level
- black belt and certified instructor in Tang Soo Do karate

Languages

- mother tongue German, daily used even abroad
- fluent in English due to long-term residence in the USA
- easily refresh-able: Italian from a two-year residency in Italy, Russian from a six-year course at school and a refreshment in the military, French and Chinese from courses in school and at college

IT skills

- expert in Linux administration and usage
- high level of experience in efficient usage of high-performance-computing infrastructure especially by scientific applications, as well as designing, implementing, debugging and optimizing the respective software
- familiar with professional type setting (Latex), general document management in Office, as well as with visualization of scientific data
- sound knowledge and years of experience in a number of programming languages, including Python, C, Shell, Perl, Java, Fortran, HTML, CSS and SQL, as well as in data management through cvs, Subversion and Git
- experience with hardware, from sensors for miniature computers (Raspberry Pi, NextThing Chip, Roborio) up to the design of a high-performance cluster.