

# C U R R I C U L U M   V I T A E

## PERSONAL DATA

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Date and Place of Birth: 07/22/1981, Halle/S.  
Nationality: German  
Google Scholar nAPdqqYAAAAJ

## EXPERIENCE

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- 07/2019 – today      PROJECT LEADER of *VIP+* validation project “*PLL synchronization*”  
**Coordination** of **collaboration** with Fraunhofer IZM Assid and the TU-Dresden.
- 11/2017 – today      PROJECT LEADER at Max-Planck Institute for the Physics of Complex Systems  
**Coordination** of research in **collaboration** with international team of 12 scientists.  
**Published** research articles, **presented** our work at international conferences.  
**Planned** validation program to transfer research results to industrial application.  
**Supervising** a PhD student and guest scientist in distinct research projects.
- 03/2017 – 11/2017      Paternity leave and part time **patent and project management** at MPI-PKS  
04/2015 – 03/2017      PROJECT LEADER at Max-Planck Institute for the Physics of Complex Systems  
**Coordinated** research in **collaboration** with international team of 10 scientists.  
**Initiated** outreach and communication with industry and Fraunhofer institutes.  
**Organized** biweekly Nuclear Lounge after science event with up to 30 participants.
- 02/2015 – 04/2015      Paternity leave, **traveled New Zealand** in a camper-van  
11/2012 – 02/2015      POSTDOC POSITION at Max-Planck Institute for Physics of Complex Systems  
**Patented** novel synchronization concept for modern electronic systems.  
**Established** research collaborations on “*Self-organized synchronization in networks of delay coupled electronic clocks in theory and experiment*”

## EDUCATION

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- 07/2008 – 10/2012      **PhD** at Max-Planck-Institute for the Physics of Complex Systems, Biological Physics,  
“*Effect of Distributed Delays in Systems of Coupled Phase Oscillators*”
- 10/2006 – 03/2008      **Diploma** in Physics at University of Leipzig  
“*Stability and Statistical Properties of Stochastic Delay Differential Equations*”  
Diploma examinations in  
“*Experimental Physics*” (Grade: 1.0)  
“*Theoretical Physics*” (Grade: 1.3)  
“*Stochastic Processes & Nonlinear Dynamics*” (Grade: 1.3)
- 10/2005 – 09/2006      **Studies of Physics at ETH Zürich**, Switzerland  
Diploma examinations in  
“*Micro- & Nanosystems*” (Grade: 1.3)  
“*Management & Organization*” (Grade: 2.0)
- 10/2002 – 09/2005      **Studies of Physics** at University of Leipzig  
09/2004 Intermediate Diploma (GPA: 1.7)
- 08/1999 – 07/2001      **A-levels** at “Sophiengymnasium Colditz” (GPA: 1.6)
- 08/1998 – 06/1999      **Stay abroad**, High School year in the USA (GPA: 1.0)

## MENTORING & PRACTICAL TRAINING

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- 07/2014 – today      **Mentor** for PhD students at the TU-Dresden and for guest scientists at MPI-PKS
- 10/2010 – 03/2011    **Teaching assistant** for practical training in Experimental Physics at TU-Dresden
- 10/2008 – 03/2009    **Teaching assistant** for Mathematical Methods in Physics at TU-Dresden
- 09/2007 – 10/2007    **Student assistant** for an introductory course on Physics and Mathematics at the University of Leipzig
- 12/2004 – 03/2007    **Private tutoring** of students in Physics
- 06/2003 – 07/2003    **Practical training** at the Leibniz Institute of Surface Modification, Epitaxial growth of GaAs semiconductors
- 08/2001 – 09/2001    **Practical training** at Sächsische Bau- & Restaurierungswerkstätten, Management

## LANGUAGES

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**English:** full professional proficiency, Cert. “UNICert III”

**French & Spanish:** elementary proficiency

**German:** mother tongue

## IT-SKILLS

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C++, Python, Qt, MATLAB/Simulink, Mathematica,  
Gimp & Inkscape, Adobe Photoshop, ImageJ & FIJI, AutoCAD,  
L<sup>A</sup>T<sub>E</sub>X, HTML, OpenGL,  
Linux, Microsoft Windows/Open Office

## COMMUNITY SERVICE, COMPETITIVE SPORTS & OUTREACH

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- 07/2010 – today      **Science communication to the general public**, “Long Night of the Sciences”
- 01/2015 – 05/2015    **Art & Science**, “A Flock of Happenings” by Florian Dombois
- 06/2013 – 04/2015    **Organizer**, “Nuclear Lounge” after science event, MPI-PKS
- 12/2010 – 12/2014    **Reader**, “Dresden Celebrities read Christmas Stories”, Barockviertel Dresden
- 05/2011 – 04/2012    **Mentoring** of high school students, project “Die Komplizen”
- 09/2009 – 10/2009    **Assistant trainer**, American Football, “Team Saxony”
- 03/2004 – 06/2014    **Competitive sport**, American Football, Vice-Champion GFL 2013
- 09/2001 – 06/2002    **Community Service**, University Hospital Leipzig, Oncology

## INTERESTS & HOBBIES

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Machine Learning, Artificial Intelligence, Electronic Prototyping, Image Analysis, Politics, Skiing & Snowboarding, American Football

01/16/2020