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Christian Gößl

Resumé

Ad Astra per Aspera ƒ

Personal information

Nationality: German

Civil Status: single

Languages

German: fluent   *first language*

English: good working knowledge   *oral and written*

Work

2010-2011: Voluntary ecological year in Eberswalde at Wald-Solar-Heim

2011-2013: Storeman at Fruchtservice Eberswalde

2013-2021: Student assistant at it-department at Albert-Einstein-Institute in Golm

2022-now: Freelancer for programming projects and coaching for HSP und students in physics, math and computer science

2020-now: Working and participating on: open source projects(zim-wiki, noweb), programming websites and documentations(my own website, hsp website, games), data projects(Rad-Bahnhof-Index), art(zen-garden), zettelkasten scripts(ToText), computational physics projects(simulations), machine learning and more on my GitHub account

Computer Knowledge

General experince: Programming of open source projects, leading teams, project management, optimizing processes, websiteprogramming, Website migration, webhosting(Wordpress 🅦), first and second level support, dataanalysis ◈

Office: LaTeX 🐦, LibreOffice ▢, Microsoft Office 📙 Office 365

Programming languages: HTML 🅗, Javascript 🆂, CSS 🅘, Git 🅞, C++ 🅒, Python 🐍, Matlab ◈, Julia ⚫, Fortran 🄵, Bash ◗, Markdown 🅼

Operating system: Windows ⊞, Linux 🐧 🅐 ⋀, macOS ⌘

Education	**2010**: Higher education entrance qualification in Eberswalde
Bachelor of Physics	**2011-2015**: Bachelor of Physics, University Potsdam
	Courses:: Astrophysics, Computational astrophysics, Hydrodynamics, Computational Physics
	Bachelor thesis:: Übergang zwischen kritischen und überladenen Lösungen bei Akkretionsscheibenwinden(Transitions between critical and overloaded solution at accretions disk), about: Stellar wind, Hydrodynamic, Line-driven winds, simulation
Master of Physics	**2015-2021**: Master of Physics, University Potsdam
	Courses: Advanced astrophysics, Introduction to general relativity, Trends in astrophysics, Advanced computational physics, Introduction to plasmaphysics
	Master thesis: Aspects of field theories in higher derivative terms, about: General relativity, High energy physics, Ostrogradski instabilities, Field theory
Seminars	**2017**: Jürgen Ehlers Spring School, topics: General relativity, Black holes, Gravitational waves
	2021: Graduate Days in Heidelberg, topics: Particle physics at low energy, Thermal field theory
	2023: Numerical relativiy hydrodynamics course at University of Potsdam
	2024: Machine learning course at University of Potsdam
	2025: Hackathon-Rad-Data Potsdam Lab
Research experience	**Experimental physics seminar 2016**: Presentation of current experimental physic papers. Nonlinear dynamics in reactions at solid surfaces. How to describe reactions at solid surfaces with nonlinear dynamics and experimental setups to investigate the reactions.
	Theoretical physics seminar 2017: Presentation of current theoretical physic papers. Investigation of fields of charged particles in hyperbolic motions. A paper about charged particles, which moving with the speed of light. The describing fields are violating the Gaussian law. The paper offers an solution.
	Astrophyics seminar 2019: Presentation of current astrophysic papers. Cosmological radiative transfer and application. A paper about the UV background radiation and the process of photoionization in early universe.
Research contacts for reference	**Dr. Axel Kleinschmidt**: Albert-Einstein-Institute for Gravitational Physics
	Prof. Dr. Martin Wilkens: University of Potsdam