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Christian Gößl

Resumé

Ad Astra per Aspera

Personal Information

Nationality: German

Civil Status: single

Education

School

2006-2010: 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

Science related 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

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

2022-2026: Online private tutoring at the Studienkreis GmbH for students in school

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

Languages

German: fluent *first language*

English: good working knowledge *oral and written*

Computer Knowledge

General experince: first and second level support, project management, optimizing processes, websiteprogramming, webhosting(Wordpress),dataanalysis

Office: LaTeX, LibreOffice, Microsoft Office Office 365

Programminglanguages: HTML, Javascript, CSS, Git, C++, Python, Matlab, Julia, Fortran, Bash, Markdown

Operating system: Windows, Linux, macOS