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\* *15th December 1989*

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# Christian Gößl

## Resumé

### ΔΩ ΔΣΤΡΑ ΠΕΡ ΔΣΠΕΡΑ

#### Personal Information

**Nationality:** German

**Civil Status:** single

#### Education

##### School

##### Bachelor of Physics

**2006-2010:** Higher education entrance qualification in Eberswalde

**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

**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.

**Astrophysics 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-now:** Freelancer for programming projects and coaching

**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](#)

## *Languages*

**German:** fluent

*first language*

**English:** good working knowledge

*oral and written*

## *Computer Knowledge*

**General experience:** 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

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

**Operating system:** Windows , Linux , macOS 