



Lucas L. Treffenstädt

Personal Information

Date of Birth January 14, 1991
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Formal Education

2017-now **PhD Student in Theoretical Physics**, *University of Bayreuth, Bayreuth.*
2015-2017 **Master of Physics - score 1.5**, *University of Bayreuth, Bayreuth*, Thesis: Simulation of Patchy Colloids on Patterned Substrates.
2011-2015 **General Physics (Bachelor of Science) - score 2.2**, *University of Bayreuth, Bayreuth*, Thesis: Monte Carlo Simulation of a Binary Mixture of Patchy Colloids [1].
2007-2010 **High School, Abitur (equivalent to A-Level)**, *Allgemeines Gymnasium Goetheschule, Wetzlar.*

Experience & Training

2015-2017 Tältläger Blåbär **Organization of a camp in Sweden for a group of 170 Scouts.**
<https://www.blobaer.de>
08/2014-12/2014 **Saõ Paulo State University (UNESP)**, *Guaratinguetá, Brazil*, Numerical simulation of the N-body-problem in the Saturnian system [2].
10/2013-now **University of Bayreuth, Bayreuth**, Tutor.
Mathematics for Physicists, Theory of Mechanics, Theory of Electrodynamics
09/2010-05/2011 **Naturschutzjugend Hessen e.V., Wetzlar**, Civil service.

- Implementation of a database system with graphical frontend for event management
- Event management
- Various tasks during events
 - cooking
 - supervision of teens and children

Language

German Mother tongue
English fluent
Swedish B2
Latin Latinum

DAAD Certificate (2014)

Computer Skills

Operating Systems Use and administration of Linux-based systems (e.g. Gentoo, Debian, OpenSuse, Linux Mint) since 2006
Web Technologies Very good skills in (X)HTML & CSS, basic knowledge of JavaScript

Programming Good knowledge of C, Python, PHP & Java, basic knowledge of Mathematica, Fortran & Lua

Office Good knowledge of \LaTeX , AbiWord & LibreOffice

Graphics Good knowledge of GNUplot, the GIMP & Inkscape

Additional Skills

International Woodbadge Award of the Scout Movement.

for completion of the Scout leader training

Effective Reading Rate (ERR)

783 Wpm.

<http://www.improved-reading.com/efficient-reading/effective-reading-rate/>

Competitions & Awards

Ich bin ich - du bist du?

2nd Place.

For a short film competition we created a film about personal interaction and accountability in the internet. (<http://www.deadcrab.de/index.php/medien/6-janus.html>)

With my Abitur

Award for exceptional achievements in physics in school by the Deutsche Physikalische Gesellschaft (DPG).

Digitale Identität 2020

3rd Place.

We created a short film dealing with the self in a digital context. (<http://www.deadcrab.de/index.php/medien/10-per-augmentatio.html>)

Explore Science 2006

Special award for original chemical an physical effects using household materials.

In a team of five students, we created a Rube Goldberg machine using different physical effects

Voluntary Activities

Deutsche Pfadfinderschaft St. Georg

2013-now, *Leader of a boy and girl scout troop; Since October 2015: Local Group Leader.*

Colloquium of Physics of the Students

2012-2014, *Head organizer.*

At the University of Bayreuth, once per semester a colloquium is held where the students invite a speaker.

Jugendtheaterprojekt Wetzlar

2008-2011, *2008: Stage designer & technician; 2009 & 2011: Public relations; 2010: Head organizer.*

Jugendtheaterprojekt Wetzlar is a local theatre group that is organized by teenagers and young adults.

Stadtjugendring Wetzlar e.V.

03/2007-03/2011, *'07-03/'09: advisor; '09-'11: secretary.*

Stadtjugendring is a local committee for the support of activities for children.

LAG JUPP 21

2005-2010, *Board member.*

LAG JUPP 21 is a network of projects for the political participation of teenagers and young adults in Hessen.

Jugendforum Wetzlar e.V.

2003-2007, *Board member.*

Jugendforum Wetzlar was a project for the involvement of children in local politics.

Publications

- [1] Daniel de las Heras, Lucas L. Treffenstädt, and Matthias Schmidt. "Reentrant network formation in patchy colloidal mixtures under gravity". In: *Phys. Rev. E* 93 (3 Mar. 2016), p. 030601. DOI: 10.1103/PhysRevE.93.030601.
- [2] Lucas L. Treffenstädt, Décio C. Mourão, and Othon C. Winter. "Formation of the Janus-Epimetheus system through collisions". In: *A&A* 583 (2015), A80. DOI: 10.1051/0004-6361/201425543.