Benjamin F. Maier

Curriculum vitae

EDUCATION

2014-TODAY

Humboldt University of Berlin

PHD PHYSICS ongoing

2014 Humboldt University of Berlin

M.Sc. Physics

final grade: 1.2, thesis: 1.0

2011-12 Utrecht University, NL

ERASMUS
10 months visit

2011 Humboldt University of Berlin

B.Sc. Physics

final grade: 1.7, thesis: 1.0

2008 Sartre-Gymnasium, Berlin-Hellersdorf

A-Level

final grade: 1.2, intensive courses: Physics,

Computer Science

WORKING EXPERIENCE

SINCE 2015

Self-employed

Data Scientist

2013 - 2014

Department of Physics (HU Berlin)

Teaching Assistant

course: Classical Mechanics and Introduction to Thermodynamics

2010 - 2011

IfG - Institute for Scientific Instruments

Student Assistant

GUI development for a color-resolved X-ray camera with interactive periodic table (C++ and Qt)

2010

Department of Physics (HU Berlin), AG PHÄ

Research Internships

two internships for the implementation of Ewald's method

2009 - 2010

Department of Medicine (HU Berlin): Charité

Teaching Assistant

TA for the Physics lab class of medicine freshmen

ADDITIONAL TEACHING EXPERIENCE

2016

Deutsche Schülerakademie

Teacher

three week summer school course on "Network Science and Complex Systems" for gifted high-school students

2013

Student Association for Physics (HU Berlin)

Prep Course Computational Physics

one lecture and a tutorial class to prepare sophomores for the bachelor's course "Computational Physics"

Student Association for Physics (HU Berlin)

Recap Course Mathematics

one lecture and a tutorial class to give a recapitulation of school mathematics in advance to official lectures ${\bf r}$

2009

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benmaier.org

SCIENTIFIC WORK

PUBLICATIONS (co-)author of two publications

 \rightarrow website

 ${\tt TALKS} \quad \text{ presenter on multiple conferences} \rightarrow \text{website}$

THESES M.Sc.: Thermophoresis in Liquids and its Connection to Equilibrium Quantities

B.Sc.: Simulations of Dyon Configurations in

SU(2) Yang-Mills Theory

AWARDS & SCHOLARSHIPS

2014 Recipient of the HU Berlin Research Track

Scholarship

2011-2014 Fellow of the German National Academic

Foundation (SDV)

2008 **DPG award** – A-Level exam

2007 **DPG award** – intensive course physics

VOLUNTARY WORK & FREE TIME

I have participated in voluntary activities in the department's student association since 2008. Responsibilities besides others: redesigning the department's study regulations together with professors, partial organisation of a student association conference (ZaPF 2010), partial organisation of numerous freshmen introduction weekend trips, handling the association's finances, mentoring for freshmen, design and implementation of various web pages. From 2015 to 2016 I have given personal lessons in math and programming to a teenager of a less fortunate social background in the Fibonacci program.

In my free time I am an avid boulderer and climber, like to make and to listen to electronic music or play classical guitar.

LANGUAGES

GERMAN native

ENGLISH fluent (TOEFL IBT, score 106)

French basic (A2)

IT KNOWLEDGE

OS Linux, Mac OSx, Windows

Science Matlab, Mathematica, numpy, scipy

DEVELOPMENT Python, C, C++, Qt, bash, MySQL,

PostgreSQL, HIVE

Office LibreOffice, MS Excel, LATEX

WEB PHP, HTML, CSS, JS (D3.js and Phaser.js)

GRAPHICS InkScape, Gimp, Graphic (iDraw),

Omnigraffle