

Benjamin F. Maier

Curriculum vitae

EDUCATION

2014–TODAY	Humboldt University of Berlin PHD PHYSICS <i>ongoing</i>
2014	Humboldt University of Berlin M.Sc. PHYSICS <i>final grade: 1.2, thesis: 1.0</i>
2011–12	Utrecht University, NL ERASMUS <i>10 months visit</i>
2011	Humboldt University of Berlin B.Sc. PHYSICS <i>final grade: 1.7, thesis: 1.0</i>
2008	Sartre-Gymnasium, Berlin-Hellersdorf A-LEVEL <i>final grade: 1.2, intensive courses: Physics, Computer Science</i>

WORKING EXPERIENCE

Self-employed	SINCE 2015
Data Scientist	
Department of Physics (HU Berlin)	2013 – 2014
Teaching Assistant	
course: Classical Mechanics and Introduction to Thermodynamics	
IfG – Institute for Scientific Instruments	2010 – 2011
Student Assistant	
GUI development for a color-resolved X-ray camera with interactive periodic table (C++ and Qt)	
Department of Physics (HU Berlin), AG PHÄ	2010
Research Internships	
two internships for the implementation of Ewald's method	
Department of Medicine (HU Berlin): Charité	2009 – 2010
Teaching Assistant	
TA for the Physics lab class of medicine freshmen	

ADDITIONAL TEACHING EXPERIENCE

Deutsche Schülerakademie	2016
Teacher	
three week summer school course on "Network Science and Complex Systems" for gifted high-school students	
Student Association for Physics (HU Berlin)	2013
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

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SCIENTIFIC WORK

PUBLICATIONS	(co-)author of two publications → website
TALKS	presenter on multiple conferences → 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	very good (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