

Tobias Marcel WAGNER



PERSONAL DATA

PLACE AND DATE OF BIRTH: Wiesbaden | June 9th 1997
EMAIL: twagner@students.uni-mainz.de

EDUCATION

- FEB 2019 - Graduate student in PHYSICS at the Johannes Gutenberg - Universität, Mainz
Scheduled (Oct 2020) Master thesis on magnetoelastic effects of thin antiferromagnetic layers on ferromagnetic substrates,
analytic analysis and numerical simulation of hybrid systems |
Advisor: Dr. EVERSCHOR-SITTE and Prof. Dr. GOMONAY
- FEB 2019 | Bachelor of Science in PHYSICS, Johannes Gutenberg - Universität, Mainz
Thesis: "Clock Transmission for the Mu3e Experiment" | Advisor: Prof. Dr. BERGER
Design, development and testing of a multichannel, any frequency, any output, optical to electric clock transmission PCB
THESIS: 1.0, GPA: 1.7
- MAR 2016 | Abitur, Theresianum Gymnasium, Mainz
German highschool graduation exam and university entrance certificate | Private high school of the roman catholic diocese Mainz
GPA: 1.3, Honors: Physics, Mathematics, English

RESEARCH EXPERIENCE

- APR 2020 - | Research assistant in the group of Dr. EVERSCHOR-SITTE TWIST at the Institute of Physics at the Johannes Gutenberg - Universität, Mainz
Analytic analysis of spin current induced domain wall motion in antiferromagnets and magnetoelastic effects of thin antiferromagnetic layers on ferromagnetic substrates in hybrid systems together with Prof. Dr. GOMONAY
- OCT 2019 - | Research assistant in the group of Prof. Dr. DENIG at the
APR 2020 | Institute of Nuclear Physics at the Johannes Gutenberg - Universität, Mainz
Simulation of muonic field interactions for the BESIII experiment,
Efficiency studies for Bhabha scattering at BESIII
- APR 2018 - | Research assistant in the group of Prof. Dr. BERGER at the
SEPT 2018 | Institute of Nuclear Physics Johannes Gutenberg - Universität, Mainz
Electronics development for the Mu3e experiment
- OCT 2016 - | Operator of the Mainz Microtron Accelerator
MAR 2018 | Operation of the 1.5 GeV microtron cascade during night- and weekend shifts
- MAR 2015- | "The physical principles of X-ray and NMR in medical applications",
MAR 2016 | Voluntary special learning and research high school term paper in physics
In cooperation with Dr. BÜMLER, Institute of Physics at the Johannes Gutenberg - Universität, Mainz
Subsequent early study as high school student at the Johannes Gutenberg - Universität, Mainz (three semesters)

RESEARCH INTERESTS

Condensed Matter Theory
Antiferromagnetic Spintronics
AFM-FM Hybrid Systems
Topological Excitations and Skyrmions
Machine Learning

TEACHING EXPERIENCE

- JUL 2019 | Tutor for Mathematical methods for physics
MAR 2018 | Tutor for Signal Analysis

CERTIFICATES

- FEB 2018 | Third place in the newcomer ranking at the 15. Carnival Dancing Tournament of the Johannes Gutenberg - Universität, Mainz
- MAR 2016 | High school graduation prize in physics from the German Physical Society (DPG)
- JUL 2015 | Participation at the mathematical modelling workshop for students and teachers.
Topic: Bioacoustics. Organizer: Dr. Martin Bracke, TU Kaiserslautern
- JUN 2013 | Diplôme D'Études En Langue Française DELF A2, French Language certificate
- MAR 2013 | Rheinland-Palatinate mathematics tournament round 3
- JUN 2012 | Rheinland-Palatinate mathematics tournament round 2
- JAN 2011 | Third prize Rheinland-Palatinate mathematics tournament round 1

LANGUAGES

GERMAN: Mothertongue
ENGLISH: Fluent
FRENCH: Basic Knowledge
LATIN: Advanced Latinum

COMPUTER SKILLS

Languages Python (4y), Java (4y), Wolfram Mathematica (4y), L^AT_EX(6y), C++ (1y), Fortran (1y)
Electronics PCB Design, Signal Analysis
Operating Systems LINUX (open Suse, Ubuntu, Scientific Linux, Fedora), Mac OS, MS Windows

SOCIAL ACTIVITIES

DEC 2013 Internship at St. Josefs-Hospital Wiesbaden, Orthopedic ward

LEISURE ACTIVITIES

Sports: Dancing, Fitness Training, Jogging, Cycling, Hiking, Canoeing, Outdoor Climbing
Piano Playing
Photography
Travelling
Modelbuilding

Tobias Wagner
Mainz, 28st May, 2020