

Application Form

Philipp Hacker



Karl-Liebnecht-Ring 13
17489 Greifswald

☎ +49 152 052 77 686

✉ rayleighsjeans@gmail.com

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Application Letter

Personalstelle

**Max-Planck Institut für Plasmaphysik,
Teilinstitut Greifswald**

Wendelsteinstraße 1
17491 Greifswald
Germany

Karl-Liebknecht-Ring 13
17489 Greifswald

Application for a Ph.D.-Position

Dear Mrs. or Mr.,

with this form I would like to submit my initial application for a Ph.D. position at the Max-Planck Institute for Plasmaphysics in Greifswald.

I am currently working on my Master thesis under the supervision of Prof. Dr. Ralf Schneider at the Institute of Physics of the Ernst-Moritz-Arndt University in Greifswald. On September the 11th I will submit this work. I will presumably finish my Master of Science degree during the late october/early november of this year with the presentation of my thesis.

Over the course of my Bachelor and Master study, I had the chance to work in many different fields of plasma physics. Hence it has been a goal of mine for a long time to further intensify my experiences with plasma related scientific research. Since my school education and start of study at the university I have deeply admired and respected the work which is done at your institute. A Ph.D. position at the Max-Planck Institute would be a great accomplishment and honor for me.

The hard work, devotion and determination which is necessary to succeed at the scientific research of such a renowned institute are within the foundation of my inner self. The attached curriculum vitae and references should give a good overview of my development as a scholar and physicist.

At last I will note the names and contact info of my previous supervisors as references.

Prof. Dr. Andre Melzer (Colloidal Plasma)

Tel. +49 3834 / 420 4790

Prof. Dr. Jürgen Meichsner (Low-Temperature Plasmaphysics)

Tel. +49 3834 / 420 4740

Prof. Dr. Ralf Schneider (Computational Science)

Tel. +49 3834 / 420 1400

Yours sincerely,

.....
Philipp Hacker

Curriculum Vitae

Personal Information

Name Philipp Hacker
Address Karl-Liebknecht-Ring 13
17489 Greifswald
Telephone +49 152 052 77 686
eMail rayleighsjeans@gmail.com
Date of Birth 15th of June, 1994 in Demmin
Nationality Germany
Family Status unwed
Sex Male

Languages

German first language, mother tongue
English second language, first foreign lingo
7 years of school education
Russian third language, second foreign lingo
5 years of school education

School

08/2000–03/2004 **Elementary School**
Grundschule Jarmen, Jarmen

08/2004–08/2010 **Middle School**
Regionale Schule Jarmen, Jarmen

08/2010–06/2012 **Academic High School**
Schlossgymnasium Gützkow, Gützkow
Higher Education Entrance Qualification (Certificate included)

Higher Education

10/2012–09/2015 **Bachelors Degree in Physics**
Ernst-Moritz-Arndt University, Greifswald
Bachelor of Sciences (Certificate and course overview included)

10/2012– now **Masters Degree in Physics**
Ernst-Moritz-Arndt University, Greifswald
Master of Sciences (Certificate and course overview included)

Research Experience

- 10/2012–04/2014 **Basic Practical Laboratory Course**
Basic experiments in all research fields at the Institute of Physics
University of Greifswald
- 05/2015–09/2015 **Bachelor Thesis: ‘Modenanregung in Yukawa-Bällen’**
Research Group of Prof. Dr. Andre Melzer
University of Greifswald
- 10/2015–07/2016 **Internship in the Group of Prof. Dr. Melzer**
Complex Plasma Systems, Experiment Setup
Institute of Physics, University of Greifswald
- 10/2015–04/2016 **Advanced Practical Laboratory Course**
Advanced experimental methodology
Institute of Physics, University Greifswald
- 04/2016–10/2016 **Research Group Traineeship**
‘Electric field strength spectroscopy in dielectric barrier discharges’
Research Group of Prof. Dr. Jürgen Meichsner
Institute of Physics, University of Greifswald
- 10/2016–now **Master Thesis: ‘Kinetic Effects in RF Discharges’**
Research Group of Prof. Dr. Ralf Schneider
Institute of Physics, University of Greifswald

Lecturing Experiences

- 2014–2017 **Assistant Associate in the Practical Course - Physics**
in: Study Programme of Humane Medicine
Institute of Physics, University of Greifswald

Publications

- submitted 2017,
not yet reviewed **‘PIC Simulation of electronegative CCRF discharges’**
*Authors: P. Matthias, R. Schneider, J. Meichsner, G. Bandelow, J. Duras,
K.-F. Luskow, D. Kahnfeld, S. Kemnitz, L. Lewerentz and P. Hacker*

Research Interests

plasmaphysics, low-temperature plasmaphysics,
plasma-wall interaction, high-temperature plasmaphysics,
numerical simulation, kinetic simulation, computational science,
plasma diagnostics, data evaluation

Extra-Curricular and Extramural Activities

- 2007–2010 **Participation in the
'Baltic Sea School Exchange Program'**
Finnvedens Gymnasium 'Figy'; Värnamo, Sweden
- 2011 **Qualification for the German Dragon Boat National Team 'Junior A'**
Participation in the 10th IDBF World Dragon Boat Racing Championships
Tampas Bay, FL; United States of America
9 Gold Medals, 2 Silver Medals
- 2012 **Entering of the 'Hochschul-Sportgemeinschaft Greifswald e.V'**
Department of Canoe/Dragonboat
2015-2016 Trainer of the Dragon Boat Team 'Greifendrachen'
- 2017 **Qualification for the German Dragon Boat National Team 'U24'**
Participation in the 13th IDBF World Nations Championships
Divonne-Les-Baines, France

Abitur Certificate

Bachelor Certificate

Transcript of Records, M.Sc.

ERNST MORITZ ARNDT
UNIVERSITÄT GREIFSWALD



Wissen
lockt.
Seit 1456

Examinations Office
Rubenowstraße 2c
17489 Greifswald

Transcript of Records

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Student name:
Date and place of birth:
Qualification (to be awarded upon completion):
Student Registration Number:
Sending institution:

Philipp Hacker
1994-06-15 in Demmin
140375
Ernst-Moritz-Arndt-Universität

Physics - PO-Version 2006

Departmental co-ordinator:
Phone number:

Frau Schwarzer
(0)3834 420 1288

ExamID	Exam. Subject	Type of Exam	Date of Exam	Grade	Status	ECTS	Remarks	Attempt
1000	Advanced Quantum Mechanics	MP	2016-02-04	3.0	pass	9		1
1100	Advanced Laboratory Course	MP	--		pass	9		1
2000	Advanced Module Main Subject	MP	2016-09-06	2.7	pass	24		1
2110	Low-Temperature Plasma Physics	MM	2016-09-06	2.7	pass	12		1
2200	Laboratory Course	MM	--		pass	9		1
2300	Seminar Special Subject	MM	--		pass	3		1
2530	Nano and Interface Physics	MP	2016-02-15	1.7	pass	6		1
3010	Numerics I	MP	2016-04-18	2.3	pass	9		1
3015	Numerics II	TL	2016-04-18	2.3	pass	6		1
3017	Numerik II (Übungsschein)	TL	--		pass	3		1
3040	Special Lectures I	TL	2016-08-04	1.3	pass	3		1

Greifswald, 2017-08-24

Transcript of Records

Philipp Hacker

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For online verification of this certificate click the following link: <https://his.uni-greifswald.de/qisserver/rds?state=verify>

Verifikationsnummer: cb0R 7hy0 XO4l

Commentary

Type of Examination: B=Bachelor Examination BA=Bachelor Thesis DA=Diploma Thesis FM=Subject Examination FP=examination in major subject
HA=Essay HD=Diploma Examination MM=micromodule examination MP=module examination MT=Master Thesis PA=project
PR=Practical Training/Internship SA=coursework TL=partial result TP=partial examination VD=Intermediate Examination leading to the
Diploma VN=Preliminary Mark WP=compulsory optional subject

Remarks: AK=credit transfer from previous study programme. (Recognition of prior learning) AT=withdrawal from examination due to illness
(verified with doctor's note) FNB=free trial NE=student absent from the examination NZ=pre-requisites for admission to examination
not met RM=withdrawal from examination due to extenuating circumstances RT=withdrawal from examination TA=attempt to deceive
ZNB=fail due to lapse of time

Description of the grading system used at the university

1.0 to 1.5	very good
1.6 to 2.5	good
2.6 to 3.5	satisfactory
3.6 to 4.0	sufficient
5.0	fail

Greifswald , den 2017-08-24
