







PIER Helmholtz Graduate School

A Graduate Education Programme at DESY in Cooperation with Universität Hamburg



Since 2013 doctoral students in the PIER research and competence fields benefit from offers and services of the PIER Helmholtz Graduate School (PHGS). This booklet gives an overview about the school's structure and services. Please do not hesitate to get in touch with our team for more information.

D. Manu Cuche

Prof. Dr. Daniela Pfannkuche

Spokesperson on behalf of Universität Hamburg

Hamburg, February 2022

Prof. Dr. Robin Santra

Spokesperson on behalf of DESY

Hamburg, February 2022

Your team of the PIER Helmholtz Graduate School (PHGS)

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PIER Helmholtz Graduate School: Our Services

1. Training Concept	. 3
2. Events / Regular elements of the Study Programme	. 6
3. Financial Support	. 7
4. Extracurricular Support	. 8
5. Annex: PHGS Templates	
Cartificator & Transcript of Records	

- Certificates & Transcript of Records
- Supervision Agreement
- Reports of interim meetings with supervisors

1. Training Concept

Study Programme

In the study programme, doctoral students acquire professional skills in their main research field, and interdisciplinary knowledge in the context of the PIER research fields as well as transferrable skills. Completion of the study programme requires a total of 17 Credit Points (CP) distributed over the duration of the doctorate: A minimum of 14 CP in the area of professional skills (categories A and B) and 3 CP in the area of transferable skills (category C).

Please note that our study programme does <u>not</u> require any exams.

A written confirmation of attendance by the organizer, lecturer or supervisor is required for each course/workshop/conference. Doctoral students are asked to upload each attendance confirmation in the PIER database. The calculation of semester hours includes the workload for lectures, preparation of conference posters or talks, etc. Block seminars are accounted as follows: 1 day = 0.5 CP, 2 days = 1 CP, etc. Half-day block seminars can also be credited. Block courses are credited with a maximum of 10 days / 5 CP.

The specific courses are chosen individually by each doctoral student in consultation with his or her supervisors.

Doctoral students who complete the study programme of the PIER Helmholtz Graduate School receive a Certificate and a Transcript of Records (ToR) (see template in annex) in addition to the doctoral degree certificate from the university.

Overview: PHGS Study Programme

Category	Elements/events	Total amount of 17 CP
A Project related activities in the main research filed	Seminars at research training groups, work groups and institutes Workshops and conferences in the main research field	6 CP
B Professional qualification in the PIER research fields	PIER PhD Seminar PIER Graduate Week Winter and summer schools Workshops and conferences outside the main research focus Subject-specific master lectures at University of Hamburg and other universities Programming Courses (Python, Matlab, Artificial Intelligence, Quantum Computing etc.)	8 CP
C Transferable Skills	Research and career skills workshops, seminars, trainings etc. Vocational training Programming Courses (Python, Matlab, Artificial Intelligence, Quantum Computing etc.)	3 CP

Exemplified PHGS Study Programme

Category	Elements/events	Duration	СР
Α	Working group or institutional seminar	Weekly	4
Project related	Project related workshop	4 days	2
Б	PIER PhD Seminar	7 sessions	1
B Professional	PIER Graduate Week	4 days	2
qualification	Summer school	8 days	4
	Subject-specific university lecture	1 term	1
	PIER Career Day	1 day	0.5
С	Scientific Writing	1 day	0.5
Transferable	Advanced Python	5 sessions	1
Skills	Time Management	1 day	1

Supervision

In the PIER Helmholtz Graduate School, every doctoral candidate should be supported **by a team of supervisors**. The team should consist of a supervisor and at least one co-supervisor. At the beginning of the PhD project, all supervisors and the doctoral candidate sign the *PHGS Supervision Agreement*.

The PHGS Supervision Agreement contains binding regulations:

- The supervisors cooperate with the doctoral candidate to draw up an individual work plan and time schedule for him or her.
- The doctoral candidate must write three brief interim reports.
- The doctoral candidate regularly meets with his or her supervisors in order to ensure that the dissertation is of high quality and will be completed on time.

The supervisors may conclude additional agreements with the doctoral candidate on further training and education, such as career planning assistance or conflict resolution.

In the annex you can find the template of the *PHGS Supervision Agreement*. Please note that the signed *PHGS Supervision Agreement* is mandatory for membership in the PIER Helmholtz Graduate School. This also applies to PhD students enrolled at universities other than Universität Hamburg.

2.) Events / Regular elements of the Study Programme

PIER PhD Seminar

The aim of the PIER PhD Seminar is that all participants introduce their PhD project or their research field to each other in a way that PhD students from different research fields are able to understand and profit from the presentations.

All PHGS members are requested to take part in the PIER PhD Seminar for at least once during the doctorate.

PIER Graduate Week

PIER Graduate Week is an interdisciplinary workshop and lecture week for PhD students in the PIER research fields and takes place once a year. Both national and international speakers offer a wide range of introductory and focus courses in the research fields Particle & Astroparticle Physics, Nanoscience, Photon Science, and Infection & Structural Biology. Each course is a consecutive four-day series of lectures and/or workshops. The introductory courses are designed for doctoral candidates who would like to learn more about a related research field, while the focus courses are in-depth sessions for doctoral candidates in their own respective research area. The Graduate Week addresses mainly PhD students, but interested MSc students and Postdocs are also invited to attend. A number of soft skills courses, a scientific colloquium and a business talk complement the programme.

All PHGS members are encouraged to participate in the PIER Graduate Week at least once during their doctoral studies and are welcome to participate more than once.

Transferable Skills, Career Training & Language Courses

The qualification concept of the PIER Helmholtz Graduate School has an additional focus on the acquisition of transferable skills. Our research and transferable skills courses and workshops address PhD students in their first, second and third year, respectively. The emphasis is on (1) research skills development, (2) presentation and communications skills, and (3) career and leadership skills. In addition to the transferable skills and career training, the graduates school offers a variety of language courses, tailor-made for PhD students in particular German courses for internationals and negotiation and networking skills for scientists. All courses are offered and announced through the PIER Education Platform (PEP): https://graduateschool.pier-hamburg.de/pier_education_platform/index_eng.html

All courses are free of charges for members of the PHGS and are given by professional trainers.

3. Financial Support

Travel Grants

Research trips, visiting cooperation partners, presenting results at international conferences or attending summer-/winter schools are important elements to enrich a PhD project but are not always easy to finance.

All members of the PHGS school are eligible for PIER travel grants. PhD candidates who have just started their doctoral project can apply only six months after the start of their project. The grants can be used for research stays, attendance of summer/winter schools, workshops, conferences abroad or in Germany. They may also be used to cover fees for local conferences in Hamburg.

Applications can be submitted by email to graduateschool@pier-hamburg.de. The application deadlines are: 31.03. / 30.06. / 30.09. / 31.12.

Decisions will be announced within two weeks after the respective deadline; if the number of applications exceeds the available funds, only the most plausible applications will be funded. The executive committee of the PIER Helmholtz Graduate School decides on the funding.

The funding procedure is easy and non-bureaucratic. Mixed funding with a contribution of the research group or inviting institutions is possible as advance payment. Several stays or trips for up to 6 weeks may be supported in the total amount of up to € 1,500 per year. The daily allowance cannot be refunded by the graduate school, and successful applicants have to submit a copy of their approved business travel application form before they can receive the grant.

PIER Funding Instruments

All members of the PIER Helmholtz Graduate School can apply for the PIER funding instruments which address scientists in the PIER research and competence fields: https://www.pier-hamburg.de/funding/index eng.html

4. Extracurricular Support

Gender Equality: dynaMENT - Mentoring for women in natural sciences

The dynaMENT mentoring programme is a cooperative project of DESY and MIN faculty of Universität Hamburg, supported by the two clusters of excellence "CUI: Advanced Imaging of Matter" and "Quantum Universe". It is designed to accompany female, trans, inter and non-binary doctoral researchers as well as junior professors, (junior) research group leaders and postdoctoral researchers of partner institutions through an important phase of their career development. It represents a contribution to increasing the number of women in leading positions at universities and partner institutions. It offers highly confidential one-to-one mentoring sessions, networking events, and trainings concerning professional and personal development.

Admission and Enrollment at University

Membership in PHGS is subject to admission as a doctoral student at a university (not necessarily University Hamburg). Admission has to be confirmed by the home university and submitted to the graduate school within 6 months after registration. Support for online registration/filling forms/general questions about the procedure of enrolment, please contact the Department of Physics: https://docata.min.uni-hamburg.de/contact?0 If required the PHGS offers support for the admission procedure as well for students who are not in Hamburg yet.

Service for International Doctoral Candidates & their Supervisors

The PIER Helmholtz Graduate School offers a wide range of services for international candidates. The offers range from a Buddy Programme to personal welcome meeting with each new (international) member of the PHGS. The PHGS is well connected with the International Office and Housing at DESY as well as with the Welcome Service at Universität Hamburg. Supervisors of international candidates can contact the PIER Office to establish contact with both institutions.

PhD Representatives

The PHGS offers a variety of activities in cooperation with the representatives of the doctoral initiative "DOIT" (Doktoranden-Initiative), which is also the elected voice of the PhD students within the partnership of Universität Hamburg and DESY. The activities include social activities and a job and career talk series - all of which are perfect platforms for networking, exchange and career planning.

5. Annex: PHGS templates/documents

- > PHGS Certificate
- PHGS Transcript of Records (ToR)
- > PHGS Supervision Agreement
- > PHGS report of interim/annual meeting with supervisors

The PIER Office is located on Campus Bahrenfeld in Hamburg

PIER Office Notkestr. 85, Building 61 22607 Hamburg, Germany Tel.:+49-40-8998-5507

E-mail: graduateschool@pier-hamburg.de

Directions: Campus Navigator Web: graduateschool.pier-hamburg.de

Facebook: www.facebook.com/PIERHamburg
Twitter: https://twitter.com/PIERCampus

LinkedIn: https://www.linkedin.com/company/pier-desy-uhh

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PIER (Partnership for Innovation, Education and Research) ist eine Kooperation zwischen der Universität Hamburg und DESY. PIER ist keine eigenständige Rechtsperson und handelt im Sinne der PIER Partner, Universität Hamburg oder DESY. DESY ist eine Stiftung bürgerlichen Rechts und Mitglied der Hermann von Helmholtz-Gemeinschaft Deutscher Forschungszentren (HGF). DESY wird gesetzlich vertreten durch das Direktorium, dieses wiederum wird vertreten durch den Vorsitzenden, Herrn Prof. Dr. Helmut Dosch und den Verwaltungsdirektor, Herrn Christian Harringa.

PIER Helmholtz Graduate School Transcript of Records

This is to certify that

Vorname Nachname

Date of birth <<DATE>>

Place of birth <<COUNTRY>>

Titel of Ph.D. project << Titel>>

has successfully completed the Ph.D. programme of the

PIER Helmholtz Graduate School

The PIER Helmholtz Graduate School (PHGS) is a joint graduate education programme of Deutsches Elektronen-Synchrotron (DESY) in cooperation with Universität Hamburg (UHH). The 'Partnership for Innovation, Education and Research' (PIER) between UHH and DESY concentrates on the four research fields Particle and Astroparticle Physics, Nanoscience, Photon Science and Infection and Structural Biology.









Scientific and interdisciplinary training Course name CERN Winter School on Supergravity, Strings and Gauge Theory Provider / institution **CERN** Type of course Year 2018 winter school Course name DPG spring conference Provider / institution Type of course Deutsche Physikalische Gesellschaft Year 2018 conference Course name Higgs physics in the SM and beyond Provider / institution DESY / Universität Hamburg Type of course Year 2018 lecture Course name PIER Graduate Week 2019 Provider / institution PIER Type of course Year 2019 graduate week Course name PIER PhD Seminar 2019 Provider / institution Type of course Year 2019 PIER seminar Course name European Physical Society Conference on High Energy Physics (EPS-HEP 2019) Provider / institution Universität Hamburg, DESY Type of course Year 2019 conference Course name PIER Graduate Week 2020 Provider / institution PIER Type of course lecture week Year 2020 Course name 8th Beam Telescopes and **Test Beams Workshop** Provider / institution Tbilisi State University Type of course Year 2020 workshop Course name 2nd Forward Physics Facility Meeting Provider / institution Type of course CERN online conference Year 2021 Course name An Introduction to Quantum Computing for PhD students Provider / institution PIER Type of course online lecture Year 2021









Professional skills training

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Course name Provider / institution	German course A1.1 DESY	Type of course	seminar	Year	2018 – 2019
Course name	Time- and Self-Management for PhD Students				
Provider / institution	PIER	Type of course	workshop	Year	2018
Course name	Basics in Matlab for Scientists				
Provider / institution	PIER	Type of course	workshop	Year	2018
Course name	German course A2.1				
Provider / institution	PIER	Type of course	workshop	Year	2019 – 2020
Course name	Communication and Conflict Management for PhD students				
Provider / institution	PIER	Type of course	online workshop	Year	2020
Course name	Business Modeling – PIER Startup Bootcamp				
Provider / institution	PIER	Type of course	online workshop	Year	2020
Course name	Advancing my Scientific Career and Selling my Academic Output				
Provider / institution	PIER	Type of course	workshop	Year	2021
Course name	Einstieg in den Hamburger Arbeitsmarkt. Plattfor Unterstützungsangebote und Jobperspektiven	rmen,			
Provider / institution	Hamburg Research Academy (HRA)	Type of course	online workshop	Year	2021

Extracurriculare activities

Course name DOIT Speaker

Provider / institution DOIT Type of course Phd Iniative Year 2019 - 2020









Awards

Course name Poster Prize

Provider / institution PIER Graduate Week 2020 Type of course lecture week Year 2020

<<Vorname Nachname>> has successfully completed the Ph.D. programme of the PIER Helmholtz Graduate School.

Hamburg, << DATE>>

Prof. Dr. Daniela Pfannkuche

Spokesperson of the PHGS on behalf of Universität Hamburg

Prof. Dr. Robin Santra

Spokesperson of the PHGS on behalf of DESY









CERTIFICATE

This is to certify that

Vorname Nachname

born on <<DATE>> in <<COUNTRY>>

has successfully completed the Ph.D. programme of the

PIER Helmholtz Graduate School

The PIER Helmholtz Graduate School (PHGS) is a joint graduate education programme of Deutsches Elektronen-Synchrotron (DESY) in cooperation with Universität Hamburg (UHH). The 'Partnership for Innovation, Education and Research' (PIER) between UHH and DESY concentrates on the four research fields Particle and Astroparticle Physics, Nanoscience, Photon Science and Infection and Structural Biology.

Hamburg, << DATE>>

Prof. Dr. Daniela Pfannkuche Spokesperson of the PHGS on behalf of Universität Hamburg Prof. Dr. Robin Santra
Spokesperson of the PHGS on behalf of DESY









The agreement is signed between:





SUPERVISION AGREEMENT

between doctoral researcher and supervisors

Doctoral researcher and supervisors sign this supervision agreement in order to ensure a high quality of academic training as well as the best possible supervision and support for the doctoral researcher. In addition, this supervision agreement specifies rights and duties of the persons involved. At the PIER Helmholtz Graduate School (PHGS) every doctoral researcher is supported by a team of at least two supervisors. The doctoral dissertation should generally be completed within three years (standard completion time).

5
Doctoral researcher:
Registered for doctoral research in the department of:
Working title of the doctoral thesis:
Supervisor/department or institution:
Co-supervisor/department or institution:
If applicable 2 nd co-supervisor/department or institution:

The doctoral researcher hereby commits to:

- 1. Strive to complete the doctoral thesis in the time agreed with the supervisors at the beginning of the project.
- 2. Inform the supervisors in case of major changes to the work schedule.
- 3. Meet the people that mainly advise the doctoral researcher on a regular basis in order to discuss the progress of the project.
- 4. Arrange a comprehensive meeting with the supervisor and co-supervisor and if applicable other scientific advisors to assess the status of the research project at least once a year (5, 18 and 30 months after the start of the doctorate).
- 5. After each of the three comprehensive meetings, a brief meeting report needs to be written by the doctoral researcher and must be signed by at least the supervisor and co-supervisor and the doctoral researcher. The PHGS provides a template for the report².
- 6. Use of an Individual Development Plan (IDP)³ throughout the entire doctoral phase.

¹ The formal conditions for supervision are defined in the respective doctoral degree regulations of the University where the doctoral student is admitted. For doctoral students at University of Hamburg the doctoral degree regulations of the Faculty for Mathematics, Informatics and Natural Sciences apply: https://www.promovieren.uni-hamburg.de/min/promotion/pdf-promotion/20180502-neuf-promo-min.pdf

² https://graduateschool.pier-hamburg.de/members/forms amp info sheets/forms amp info sheets/index eng.html

³ https://www.min.uni-hamburg.de/en/min-graduiertenzentrum/idp.html







The supervisors commit themselves to:

- 1. Define the goals and milestones for the doctoral research project in collaboration with the doctoral researcher in a way that it can be successfully finished within three years. A working title of the project should be defined at the beginning of the doctoral procedure.
- 2. Meet the doctoral researcher at least once a year (5, 18 and 30 months after the start of the doctorate) for a comprehensive meeting on the status of the research project, comment on time and work plans, outline of research project, progress and career planning after the doctorate. The supervisors make sure that a brief meeting report is written by the doctoral researcher and is signed by at least the supervisor and co-supervisor and the doctoral researcher. The PHGS provides a template for the report (see footnote #2).
- 3. Ensure that the doctoral researcher meets their immediate advisors on a regular basis in order to discuss the progress of the project.
- 4. Support the attendance of subject-related events (conferences, meetings, workshops, lectures etc.) and advise the doctoral researcher which events are useful for their doctoral project and career development.
- 5. Advise the doctoral researcher on the PHGS study program, which is intended to ensure that doctoral researchers deepen their professional skills and expertise in the PIER research fields.
- 6. Make sure that the doctoral researcher uses an IDP (see footnote #3) throughout their entire doctoral phase.

The doctoral researcher and the supervisors commit themselves to an open and cooperative collaboration for a successful realization and completion of the doctoral studies.

For the duration of the doctoral studies, the doctoral researcher will be a member of the PIER Helmholtz Graduate School. The membership expires after the oral exam.

The doctoral researcher and the supervisors commit themselves to safeguarding Good Scientific Practice⁴.

Additional agreements (if required):
Date and signatures:
Doctoral researcher:
Supervisor:
Co-supervisor:
2 nd co-supervisor (if applicable):
Other:

Version November 2022







PIER Helmholtz Graduate School (PHGS)

Leaflet on reporting procedures for doctoral candidates with DESY contract

Why do you have to meet your supervisors and write a report about this meeting?

- It is set in the DESY regulations, which you have received together with your DESY contract.
- DESY and the PIER Helmholtz Graduate School wants to make sure that you are well supervised.
- Take the opportunity and talk during that meeting with your supervisors about what has happened so far, discuss the current situation and plan the next steps.

When and how do you have to meet your supervisors & when do you have to submit the report?

- Your interim reports have to be submitted to the PHGS by the end of month 5, 18 and 30 after the start of your DESY contract as PhD student.
- The report has to be the result of a meeting (personally, via. Skype etc.) with at least two of your supervisors. Make yourself familiar with the questions on the template PhD Thesis Interim Feedback Report before you meet your supervisors and share the document with your supervisors, too.
- Arrange a meeting with your supervisors so early that you can upload the report before the given deadline.
- If you have already uploaded the interim report or contacted us regarding a late upload, please ignore this reminder and refer to our last contact.

Which document/template do you have to use for the report?

- The complete PhD Theses Interim Feedback report is composed of a report page and a signature page.
- Please use the document PhD Thesis Interim Feedback Report (download on our website: https://graduateschool.pier-hamburg.de > Members > Forms & infosheets)
- Please print out/download/copy both parts.

What do you have to do after the meeting with your supervisors?

- Fill in the PhD Thesis Interim Feedback Report.
- Sign the report and have it signed by your supervisors.







- Upload the signed PhD Thesis Interim Feedback Report in your PHGS database profile in the tab "Supervision" before the end of the 5th, 18th or 30th month after the start of your PhD Link: https://graduateschool.pier-hamburg.de/login/index eng.html
- Forward the "signature page" (the one with the DESY logo on top) together with the completed PhD Thesis Interim Feedback Report to the people listed on the signature page.
- Make sure that all listed people sign, possible additional comments are written and that everything is handed over to your contact person in the Personnel Department.
- The documents (PhD Thesis Interim Report, signature page, possible comments) should reach the Personnel Department not later than 3-4 weeks after the meeting with your supervisors.

Any doubts or queries? Please get in touch with us (Stefanie.Tepass@pier-hamburg.de)

Best regards,
Your team of the PIER Helmholtz Graduate School

(As of September 2019)







•	PhD Thesis Interim Feedback Report covering □5 months □18 months □30 months
	Date of meeting:
	Start date of PhD contract:
	PhD Student:
	Group Leader:
	Group:
	Supervisor:
	Co-Supervisor:
	2 nd Co-Supervisor (if applicable)
	DESY-Mentor (only for PhD students with DESY contract):
	a)Status of the doctoral project (direction of study, milestones reached, results achieved):
	b)Problems encountered, measures taken (scientific, organizational, support,):
	c)Milestones/schedule for remaining time (which steps planned to complete thesis within 3 years):
	d)Other comments:
	e)Enclosure to 30 months report: outline of PhD thesis
	Signature of PhD student
	Signature of supervisor Signature of co-supervisor Signature of 2n co-supervisor (if applicable)

Please upload form in the PHGS online account for members!



Name of PhD Student:			
Submit this form together with the Thesis Interim Feedback Report for signature and commentary to the persons listed below. At the end, both forms must be handed in to the personnel recruiter responsible for you.			
2. Comment of professional s	upervisor in the DESY group		
Name of professional supervis	sor:		
	DESY group: Please attach a short written evaluation report on the Also necessary if the person is identical to one of the supervisors who have already signed port.)		
Date and signature of profess	ional supervisor		
3. Comment of Mentor			
Name of Mentor:			
Meeting/s or talks have taken	place: □ yes □ no		
Comments:			
Date and signature of Mentor			
4. Group Leader	□ Comment:		
	□ Take note		
Date and signature of Group L	eader		
5. Division Head	□ Comment:		
	□ Action necessary:		
	□ Take note		
Date and signature of Division	Head		
6. Forwarded to Personnel Department on (date)			







Annual Report

Date:	
PhD s	student:
Supe	rvisor:
Co-sı	pervisor:
2 nd Co	o-supervisor (if applicable):
1. majo	Status of the doctoral project r direction of study, specific research questions, milestones reached

2. Problems encountered, measures taken

scientific, organizational, support, ...

3. Schedule for the remaining time

which steps planned to complete thesis within 3 years





PIER
Helmholtz
Graduate
School
A Graduate Education Program
of Universität Hamburg
in Cooperation with DESY

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5. Signatures: PhD students + supervisor(s)