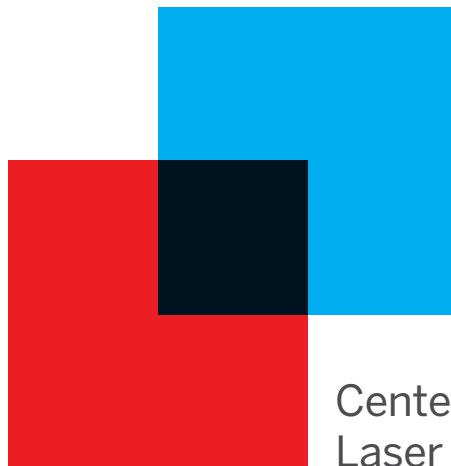


# PIER Graduate Week 2025

Interdisciplinary lecture  
and workshop week for  
doctoral researchers



6–10  
OCT 25

Center for Free-Electron  
Laser Science



Partnership of  
Universität Hamburg and DESY



## Course Overview

Programme / registration:  
[pier-hamburg.de/gradweek25](http://pier-hamburg.de/gradweek25)

	Time	Course	Monday, 6 OCT	Tuesday, 7 OCT	Wednesday, 8 OCT	Thursday, 9 OCT
Morning sessions	09:00 – 10:30	<b>/ Course 1:</b> Optical and X-ray Techniques in Photon Science SR II	Michael Martins, University of Hamburg  Experimental Methods	Michael Martins, University of Hamburg  Experimental Methods	Henning Moritz, University of Hamburg  Optics for Doctoral Researchers	Henning Moritz, University of Hamburg  Optics for Doctoral Researchers
	10:30 – 11:00	Coffee break				
	11:00 – 12:30	<b>/ Course 1:</b> Optical and X-ray Techniques in Photon Science SR II	Michael Martins, University of Hamburg  Experimental Methods	Michael Martins, University of Hamburg  Experimental Methods	Henning Moritz, University of Hamburg  Optics for Doctoral Researchers	Henning Moritz, University of Hamburg  Optics for Doctoral Researchers
	12:30 – 13:30	Lunch break				
Afternoon sessions	13:30 – 15:00	<b>/ Course 2:</b> Scientific Software Development SR II	Jörn Behrens, University of Hamburg  Introduction: Aim, preliminaries, facts & falacies, the hardware-software mapping problem, specifics of scientific software development	Jörn Behrens, University of Hamburg  How to plan software development, software life cycle, etc.	Jörn Behrens, University of Hamburg  Testing and verification, code validation, automated build	Jörn Behrens, University of Hamburg  Documentation, inline documentation, licensing
	15:00 – 15:30	Coffee break				
	15:30 – 17:00	<b>/ Course 2:</b> Scientific Software Development SR II	Jörn Behrens, University of Hamburg  Versioning: Introduction to SVN and git	Jörn Behrens, University of Hamburg  Intro to project management, programming approaches, estimation, etc., using ticketing, release plans	Jörn Behrens, University of Hamburg  Testing strategies, code management, maintenance, debugging strategies	
	17:00 – 17:30	Coffee break				

	Time	Course	Monday, 6 OCT	Tuesday, 7 OCT	Wednesday, 8 OCT	Thursday, 9 OCT
Evening sessions	17:30 - 19:30	/ Evening sessions		/ Industry talk:  <b>Thermo Fisher</b>  Company presentation, discussion and networking  SR II Catering included	/ Poster session with barbeque        CFEL foyer BBQ included	
			End of event			
Additional sessions on 10-13 Oct		Soft skills and career planning workshops between 10 - 13 October:				
		/ Skills course A  10 + 13 Oct 9:00 am - 12:30 pm	<b>AI-Powered Time and Self-Management. Explore the Power of AI to Improve Efficiency</b>  Markus Gyger online/remote			
		/ Skills course B  10 + 13 Oct 2:00 pm - 5:30 pm	<b>Next Level Scientific Writing using AI Assistants</b>  Daniel Mertens online/remote			
		/ Skills course C  10 Oct 9:00 am - 10:30 am	<b>Mini workshop "Find a Career that Fits"</b> <b>Individual career counselling sessions between 13-21 Oct</b>  Annette Leemans Room 3a, building 1b   DESY			
		/ Skills course D  10 Oct 10:00 am - 11:00 am	<b>Mental Health in Academia</b>  Gayatri Batra online/remote			
			End of event			