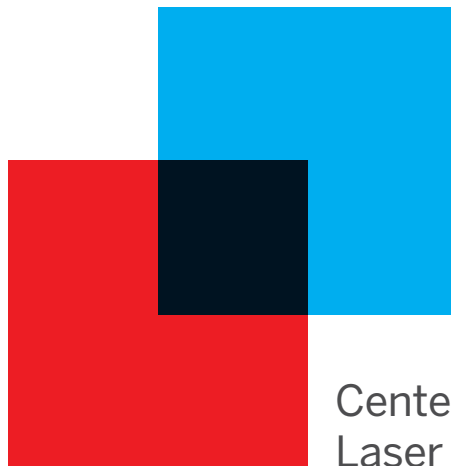


PIER Graduate Week 2025

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

	Time	Course	Monday, 6 OCT	Tuesday, 7 OCT	Wednesday, 8 OCT	Thursday, 9 OCT
Morning sessions	09:00 – 10:30	/ Course 1: 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 Neutral atom quantum computers
	10:30 – 11:00	Coffee break				
	11:00 – 12:30	/ Course 1: 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 Neutral atom quantum computers
	12:30 – 13:30	Lunch break				
Afternoon sessions	13:30 – 15:00	/ Course 2: 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	/ Course 2: 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: Thermo Fisher 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	AI-Powered Time and Self-Management. Explore the Power of AI to Improve Efficiency Markus Gyger online/remote			
		/ Skills course B 10 + 13 Oct 2:00 pm - 5:30 pm	Next Level Scientific Writing using AI Assistants Daniel Mertens online/remote			
		/ Skills course C 10 Oct 9:00 am - 10:30 am	Mini workshop "Find a Career that Fits" Individual career counselling sessions between 13-21 Oct Annette Leemans Room 3a, building 1b DESY			
		/ Skills course D 10 Oct 10:00 am - 11:00 am	Mental Health in Academia Gayatri Batra online/remote			
			End of event			