

EARLY CAREER DIFFRACTION METHODS SEMINAR 2026

SUNDAY 19TH JULY

Time	Session / Activity
11:00-13:00	Arrival and Registration
13:00-14:00	<i>Light Welcome Lunch</i>
14:00-15:30	Intro and Keynote Session
14:00-14:15	Welcome from the Chairs Maggie Klureza (<i>University of Hamburg, Germany</i>) / Anaïs Chretien (<i>Stanford University, USA</i>)
14:15-15:30	Keynote Talk Montserrat Soler Lopez (<i>European Synchrotron Radiation Facility, France</i>) “Understanding Alzheimer’s Disease Across Scales: My Journey Through Integrative Biology”
15:30-16:30	<i>Break</i>
16:30-18:30	Two Methods Are Better Than One: Paired Techniques for Biological Investigation Discussion Leader: Diana Gaman (<i>University of Leeds, UK</i>)
16:30-16:35	Welcome & Introduction
16:35-16:55	Swati Aggarwal (<i>European Spallation Source ERIC, Sweden</i>) “Beyond Cryo: Room-Temperature X-ray Insights into UrdA”
16:55-17:15	Johan Glerup (<i>University of Gothenburg, Sweden</i>) “Time-Resolved Studies of Nitric Oxide Turnover in Cytochrome C Oxidase”
17:15-17:35	Juneina Omeiri (<i>Institute of Structural Biology-DYNAMOP, France</i>) “Studying Photoswitching in a Novel Photochromic Flavoenzyme–Inhibitor Complex by Time-Resolved Crystallography”
17:35-17:45	<i>Break</i>
17:45-18:05	David Buckley (<i>University of Missouri – Columbia, USA</i>) “Visualization of Covalent Intermediates and Conformational States of Proline Utilization A by X-Ray Crystallography and Molecular Dynamics Simulations”
18:05-18:25	Gabriela Schröder (<i>MAX IV Laboratory/Lund University, Sweden</i>) “Neutron Protein Crystallography of the Macrophage Migration Inhibitory Factor Reveals a Key Water in the Tautomerase Mechanism”
18:25-18:30	Final Discussion
18:30-20:00	<i>Dinner</i>

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20:00-21:30	Poster Session
20:00-20:30	Group 1 presenting
20:30-21:00	Group 2 presenting
21:00-21:30	Group 3 presenting

MONDAY 20TH JULY

09:00-11:00	Processing & Evaluating Crystallographic Data Discussion Leader: Matteo Magri (<i>European Synchrotron Radiation Facility, France</i>)
09:00-09:05	Welcome & Introduction
09:05-09:25	Robert Bosman (<i>University Medical Center Hamburg-Eppendorf, Germany</i>) “Anisotropic Multiplicity: Understanding Structure Factor Sampling in Serial Crystallography”
09:25-09:45	Sebastian Bielfeldt (<i>DESY, Germany</i>) “Vacuum Matching: Calculating Extrapolation Factors in Low-Occupancy Time-Resolved Crystallography”
09:45-10:05	Bhawna Chaudhary (<i>University of Warsaw, Poland</i>) “Improving MicroED Structure Refinement with Advanced Scattering Models”
10:05-10:15	Break
10:15-10:35	Gayathri Yuvaraj (<i>Lund University, Sweden</i>) “Quantum-Refinement for Time-Resolved Crystallography”
10:35-10:55	Dimitris Triandafillidis (<i>University of Hamburg, Germany</i>) “From clusters to clusters”
10:55-11:00	Final Discussion
11:00-11:30	Break

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MONDAY 20TH JULY

11:30-13:00	Career Panel: Navigating Career Paths in an Evolving Structural Biology Landscape
11:30-11:50	Introduction by Discussion Leader: Jeney Wierman (<i>Cornell University/CHESS, USA</i>)
11:50-12:50	Panel Discussion: Swati Aggarwal (<i>European Spallation Source ERIC, Sweden</i>) Daniele de Sanctis (<i>European Synchrotron Radiation Facility, France</i>) Nicholas Devenish (<i>Diamond Light Source, UK</i>) Briony Yorke (<i>University of Leeds, UK</i>)
12:50-13:00	Final Discussion
13:00-14:00	<i>Lunch</i>
14:00-16:00	Free / Discussion Time
16:00-16:30	<i>Break</i>
16:30-18:30	Probing the Small-Scale Interactions that Drive Protein Function Discussion Leader: Virginia Apostolopoulou (<i>University of Hamburg, Germany</i>)
16:30-16:35	Welcome & Introduction
16:35-16:55	Helen Ginn (<i>University of Hamburg/DESY, Germany</i>) "Allosteric effects on catalysis through the lens of proton network communication"
16:55-17:15	Dilip Narayanan (<i>University of Copenhagen, Denmark</i>) "Frag2Drug - UCPH's Fragment-Based Screening and Drug Discovery Facility"
17:15-17:35	Tim Gitzinger (<i>University of Hamburg, Germany</i>) "Linking Structure to Energetics: Characterising the Stress-Strain Relationship of Proteins"
17:35-17:45	<i>Break</i>
17:45-18:05	Maria Spiliopoulou (<i>University Medical Center Hamburg-Eppendorf, Germany</i>) "Unravelling Ligand-Binding Dynamics: Advancing Structural Biology with Time-Resolved Crystallography"
18:05-18:25	Lei Wang (<i>Stockholm University, Sweden</i>) "Microcrystal-Based Flash Ligand Soaking and Complex Structure Determination Using Electron Diffraction"
18:25-18:30	Final Discussion & Wrap-up
18:30-20:00	<i>Dinner</i>

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