

19:00 - 21:00 | Social Outing and Dinner

MDANALYSIS

User Group Meeting

Wednesday, 27 September		
Faculty of Sciences of the University of Lisbon (ULisboa) Auditorium, Building C1		
Time (WEST)		
12:00 - 12:30	Check-In/Registration	
12:30 - 12:45	Welcome & Opening Notes	
12:45 - 13:30	MDAnalysis State of the Union	
13:30 - 14:15	Applications in Materials Science Nisha Middleton - Atomistic Simulations of Polymers for Sustainable Food Packaging Design Maria Castellanos - Integrating Molecular Dynamics and Excited-State Quantum Mechanics for High-Throughput Screening of Molecules in Macromolecular Scaffolding	
14:15 - 14:45	Coffee Break (Building C6)	
14:45 - 15:45	Panel Discussion Careers in MD and Open Source Software	
15:45 - 16:30	Deep Learning and Multiscale Modeling with MD Andreas Arango - Topological Learning Approach to Estimating Lipid Temperatures Oliver Beckstein - From Transporter Structure to Function via Multiscale Modelling	
16:30 - 16:45	Quick Break	
16:45 - 17:45	Keynote Talk Giovanni Pavan - New Paradigms in the Analysis of Innately Dynamic Complex Molecular Systems	
17:45 - 18:00	Day 1 Closing Remarks	



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Thursday, 28 September		
Faculty of Sciences of the University of Lisbon (ULisboa) Auditorium, Building C1		
Time (WEST)		
9:00 - 9:30	Check-In/Registration	
9:30 - 10:15	Applications in Drug Discovery Hannah Baumann - Breaking Free from Ligand Similarity Restrictions in Binding Free Energy Calculations Fiona Naughton - Investigation Conformational Changes in Membrane Transport Proteins with Molecular Simulation	
10:15 - 10:45	Lightning Talks 1 Pegerto Fernández - Graph Learning Workflow for Allosteric Pocket Detection Hocine El Khaoudi Enyoury - G Protein-Coupled Receptor Kinase 2 (GRK2) in Complex with the Neurotensin Receptor 1: A Dynamic Overview Francesca Stanzione - Molecular Dynamics at Sosei Heptares	
10:45 - 11:15	Coffee Break (Building C6)	
11:15 - 12:00	Toolkit Showcase Ian Kenney - MDAKits: A Framework for FAIR-Compliant Molecular Simulation Analysis Henrik Jäger - MAICoS: A Toolkit for the Molecular Analysis of Interfacial and Confined Systems	
12:00 - 12:15	Quick Break	
12:15 - 13:00	Toolkit Showcase Namir Oues - MDSubSampler: A Toolkit to Extend MDAnalysis Capability to a Posteriori Sampling of Important Protein Conformations and Data Preparation for Machine Learning Egor Marin - Parallelization of MDAnalysis	
13:00 - 14:00	Lunch (Building C6)	
14:00 - 15:00	Keynote Talk Cédric Bouysset - Encoding Interactions as Fingerprints in MD Simulations	
15:00 - 15:30	Lightning Talks 2 Dimitris Stamatis - Identifying Interaction Patterns and Hotspots in Aggregates of Self-Assembling Biomaterials Hannah Pollak - ClayCode: A Tool for Automating the Setup of Atomistic Clay Models for Molecular Dynamics Simulations with GROMACS Daniel dos Santos - Using MDAnalysis to Squeeze Simulation Trajectories of ABC Efflux Transporters to get Scientific Insights	
15:30 - 16:00	Coffee Break (Building C6)	
16:00 - 17:00	Open Discussion MDAnalysis and the Future: Defining the Path Forward Beyond 3.0	
17:00 - 17:30	Presentation of Awards and Wrap Up	

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User Group Meeting

Friday, 29 September		
SANA Metropolitan Hotel Madrid Room		
Time (WEST)		
9:30 - 10:00	Check-In/Registration	
10:00 - 12:00	Hackathon	
12:00 - 13:00	Lunch	
13:00 - 15:00	Hackathon	