

17:45 - 18:00 Day 1 Closing Remarks

19:30 - 21:00 | Conference Dinner (Rice ME, https://www.riceme.pt/)

#### MDANALYSIS

#### User Group Meeting

Wednesday, 27 September 2023		
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  Andres Arango - Topological Learning Approach for 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	



17:00 - 17:30 Presentation of Awards and Wrap Up

#### \* MDANALYSIS

# User Group Meeting

Thursday, 28 September 2023		
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 - Investigating 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  Melissa Mitchell - Developing Multiscale Models to Study Molecular Transport into Tissues  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  lan 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	



# \* MDANALYSIS

# User Group Meeting

Friday, 29 September 2023		
SANA Metropolitan Hotel Madrid Room		
Time (WEST)		
9:30 - 10:00	Check-In/Registration	
10:00 - 10:30	Hackathon Introduction & Project Setup	
10:30 - 12:00	Work on Hackathon Projects	
12:00 - 13:00	Lunch Break (NOTE: Lunch will not be provided)	
13:00 - 14:30	Work on Hackathon Projects	
14:30 - 15:00	Project Showcase	