

17:35 - 21:00 Reception and Poster Session (Bush House, 8th Floor (South))

User Group Meeting

King's College London, Bush House, Lecture Theatre 1 Time (BST) 09:00 - 09:30 Check-In/Registration 09:30 - 09:35 Welcome and Opening Remarks 09:35 - 10:15 MDAnalysis State of the Union 10:15 - 10:45 Coffee Break and Meet and Greet Keynote Talk 10:45 - 11:45 Antonia Mey - From a Molecular Movie of a Protein to Quantitative Data Applications in Materials Science and Soft Matter Josh Dunn - Kinisi: Bayesian Analysis of Mass Transport from Molecular Dynamics Simulations Özge Özkılınç - Exploring Lipase Biocatalysis in Sugar-Based Natural Deep Eutectic Solvents for Production of Novel Polymeric Compounds 11:45 - 12:45 Shivani Grover - Choline Based Plastic Crystals as Barocaloric Materials: Insights from Ab Initio Molecular Dynamics
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12:45 - 14:15 Lunch
Toolkit Showcase Sarah Fegan - CodeEntropy Software Development Raquel López-Ríos de Castro - PySoftK 2.0: Tool for the Analysis of Interfaces, Interactions and Self-Assembly in Soft Matter Simulations Hannah Pollak - ClayCode: A Toolkit for Clay Simulation Setup and Analysis
15:15 - 15:45 Coffee Break
Panel Discussion Communities and Resources for Computational Molecular Scientists 15:45 - 16:45 Panelists: Sarah Fegan (CCPBioSim), Shozeb Haider (MGMS), Edina Rosta (TYC), Michelle Sahai (CompChemURG)
Lightning Talks Maria Baczynska - Structural Studies into Biofilm Formation by the Legionella Pneumophila Collagen-Like Protein Valerij Talagayev - OpenMMDL: A Workflow for Molecular Dynamics Simulations of Protein-Ligand Complexes Setup, Simulation and Analysis Gangarapu Kiran - Molecular Dynamic Simulation of Methotrexate Drug with Silver Nanoparticle in Drug Delivery Across Cell Membrane Simon Holtbruegge - Isotropic, Semi-isotropic, and Anisotropic Rotational Diffusion from Molecular Dynamics Trajectories Kira Fischer - Calculating Pair Distribution Functions in Anisotropic Geometries Asal Azar - Structural Dynamics of a Metalloprotease Enzyme: Insights from Molecular Dynamics Simulations
17:30 - 17:35 Day 1 Closing Remarks



User Group Meeting

King's College London, Bush House, Lecture Theatre 1
Check-In/Registration
Day 2 Opening Remarks
Keynote Talk Francesca Stanzione - Molecular Dynamics for Drug Discovery: Insights into Protein, Ligand, and Protein-Ligand Complexes
Coffee Break
Toolkit Showcase Ferdoos Hossein Nezhad - MDGraphEmb: A Toolkit for the Encoding of Molecular Dynamics Data Using Graph Embedding Namir Oues - MDAutoMut: A Toolkit for the Automated Evaluation of the Impact of Mutations on Protein Dynamics Lexin Chen - Molecular Dynamics Analysis with N-ary Clustering Ensembles (MDANCE), A Novel Clustering Package Based on N-ary Similarity
Everything You Wanted to Know About MDAnalysis, But Didn't Dare Ask!
Lunch
Applications in Drug Discovery and Therapeutics Hugo MacDermott-Opeskin - Building an Open Source Antiviral Drug Discovery Toolkit Evelyn Qiu - Investigating Allosteric Inhibitory Mechanisms of the Soluble Epoxide Hydrolase Ivan Man - The Effect of Missense Mutations on the Binding Pocket Dynamics of Skeletal Mysoin Sana Akhter - Mechanism of Ligand Binding to Target RNA Aptamer
Coffee Break
Machine Learning and Multiscale Modeling with MD Henrik Stooß - Spatially Resolved Impedance Spectra from Molecular Dynamics Simulations: A Generalised Correlation Analysis Approach Michal H. Kolar - Computer Simulations of the Ribosome Matteo Degiacomi - Molearn: Streamlining the Design of Generative Models of Biomolecular Dynamics Oliver Beckstein - Using MDAnalysis for Machine Learning: Non-parametric Bayesian Kinetic Clustering
Presentation of Awards and Day 2 Closing Remarks
(Optional) Social Dinner Pre-registered Attendees (More information to follow via email to those registered for the UGM)



User Group Meeting

Friday, 23 August		
King's College London, Bush House, Lecture Theatre 1		
Time (BST)		
09:00 - 09:30	Check-In/Registration	
09:30 - 10:15	A Bird's Eye View of Contributing to and Maintaining Open Source Software	
10:15 - 10:30	Hackathon Introduction & Project Setup	
10:30 - 12:30	Work on Hackathon Projects	
12:30 - 14:00	Lunch Break (NOTE: Lunch will not be provided)	
14:00 - 16:00	Work on Hackathon Projects	
16:00 - 17:00	Project Showcase	