

17:30 - 21:00 Reception and Poster Session (Bush House, 8th Floor (South))

User Group Meeting

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	King's College London, Bush House, Lecture Theatre 1
Time (BST)	
09:00 - 09:30	Check-In/Registration
09:30 - 09:45	Welcome and Opening Remarks
09:45 - 10:45	Keynote Talk Antonia Mey - From a Molecular Movie of a Protein to Quantitative Data
10:45 - 11:15	Coffee Break
11:15 - 12:15	Applications in Materials Science and Soft Matter Andrew McCluskey - 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 Shivani Grover - Choline Based Plastic Crystals as Barocaloric Materials: Insights from Ab Initio Molecular Dynamics
12:15 - 12:30	TBD
12:30 - 14:00	Lunch
14:00 - 14:30	MDAnalysis State of the Union
14:30 - 15:30	Toolkit Showcase Sarah Fegan - CodeEntropy Software Development Racquel - 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
15:30 - 16:00	Coffee Break
16:00 - 16:30	TBD
16:30 - 17:15	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 Kiran Gangarapu - Molecular Dynamic Simulation of Methotrexate Drug with Silver Nanoparticle in Drug Delivery Across Cell Membrane Papu Kalita - L1 Metallo- β -Lactamase Antimicrobial Resistance Enzyme: A Computational Reaction Mechanism Study Simon Holtbruegge - Isotropic, Semi-isotropic, and Anisotropic Rotational Diffusion from Molecular Dynamics Trajectories Kira Fischer - Calculating Pair Distribution Functions in Anisotropic Geometries Asal Azar - TBD
17:15 - 17:30	Day 1 Closing Remarks



User Group Meeting

Thursday, 22 August		
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		
Applications in Drug Discovery and Therapeutics 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 Hugo MacDermott-Opeskin - Building an Open Source Antiviral Drug Discovery Toolkit		
Lunch		
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		
TBD		
Coffee Break		
Machine Learning and Multiscale Modeling with MD Henrik Stooß (née Jäger) - 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		



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 - 10:00	Hackathon Introduction & Project Setup	
10:00 - 12:00	Work on Hackathon Projects	
12:00 - 13:30	Lunch Break (NOTE: Lunch will not be provided)	
13:30 - 15:30	Work on Hackathon Projects	
15:30 - 16:30	Project Showcase	