

17:35 - 21:00 Reception and Poster Session (Bush House, 8th Floor (South), https://www.kcl.ac.uk/kingsvenues/rooms/bh-8fs)

17:30 - 17:35 Day 1 Closing Remarks

## User Group Meeting

	Wednesday, 21 August
	King's College London, Bush House, Auditorium
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 (Bush House Arcade, <a href="https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade">https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade</a> )
10:45 - 11:45	Keynote Talk  Antonia Mey - From a Molecular Movie of a Protein to Quantitative Data
11:45 - 12:45	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  Shivani Grover - Choline Based Plastic Crystals as Barocaloric Materials: Insights from Ab Initio Molecular Dynamics
12:45 - 14:15	Lunch (Bush House Arcade, https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade)
14:15 - 15:15	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 (Bush House Arcade, https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade)
15:45 - 16:45	Panel Discussion Communities and Resources for Computational Molecular Scientists Panelists: Sarah Fegan (CCPBioSim), Shozeb Haider (MGMS), Edina Rosta (TYC), Michelle Sahai (CompChemURG)
16:45 - 17:30	Lightning Talks  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  Zhiwen Zhong - Unraveling the Molecular Dance: Insights into TREM2/DAP12 Complex Formation in Alzheimer's Disease through Molecular Dynamics Simulations  Midhun Mohan Anila - Scrutinising the Conformational Ensemble of the Intrinsically Mixed-Folded Protein Galectin-3  Yu-Yuan (Stuart) Yang - Deep Learning for Binding Site Segmentation in Protein Ensembles



## User Group Meeting

Thursday, 22 August		
King's College London, Bush House, Auditorium		
Time (BST)		
09:00 - 09:25	Check-In/Registration	
09:25 - 09:30	Day 2 Opening Remarks	
09:30 - 10:30	Keynote Talk Francesca Stanzione - Molecular Dynamics for Drug Discovery: Insights into Protein, Ligand, and Protein-Ligand Complexes	
10:30 - 11:00	Coffee Break (Bush House Arcade, <a href="https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade">https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade</a> )	
11:00 - 12:00	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	
12:00 - 12:45	Everything You Wanted to Know About MDAnalysis, But Didn't Dare Ask!	
12:45 - 14:15	Lunch (Bush House Arcade, https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade)	
14:15 - 15:30	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	
15:30 - 16:00	Coffee Break (Bush House Arcade, https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade)	
16:00 - 17:15	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	
17:15 - 17:30	Presentation of Awards and Day 2 Closing Remarks	
19:00 - 21:00	(Optional) Social Pub Night (Bermondsey Bierkeller, 2-4 Tooley Street, London, SE1 2SY, <a href="https://www.bermondseybierkeller.co.uk/">https://www.bermondseybierkeller.co.uk/</a> )  Pre-registered Attendees	



## User Group Meeting

Friday, 23 August		
King's College London, Bush House, Auditorium		
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 (Bush House Arcade, https://www.kcl.ac.uk/kingsvenues/rooms/bh-arcade)	
14:00 - 16:00	Work on Hackathon Projects	