

Tempe, Arizona, USA

Day	Time Start	Time End	Locatio	on Speaker(s)	Title
Sunday	9:00	9:15	PSF	Oliver Beckstein	Welcome and Opening, General
Nov. 9th	AM	AM	186		Organization Remarks
	9:15	9:45	PSF	Hugo MacDermott-	MDAnalysis: Present and Future
	AM	AM	186	Opeskin	
	9:45	10:45	PSF	Matthias Heyden	Keynote: Sub-Picosecond Timescale
	AM	AM	186		Information in Microsecond Simulations
	10:45	11:30	PSF		Tea / Coffee Break
	AM	AM	foyer		
	11:30	11:50	PSF	Peter Zhang	Ion-Dependent Structural Ensemble and
	AM	AM	186		Phase Separation Propensity of
	11 50	10.10	DOE	T 'C Cl 1	Single-Stranded RNA
	11:50 AM	12:10 PM	PSF 186	Jennifer Clark	Hydration Contribution to the Solvation
	12:10	12:30	PSF	Amruthesh	Free Energy of Water-Soluble Polymers
	PM	PM	186	Thirumalaiswamy	Studying the Effect of Solvent Crowding
	12:30	1:45	PSF	1 mrumaiaiswamy	on Protein Energy Landscapes Lunch
	PM	PM	foyer		L'uncn
	1:45	2:05	PSF	Matthias Heyden	IMD Streaming Introduction
	1.45 PM	2:05 PM	186	Matimas Heyden	IMD Streaming introduction
	2:05	2:25	PSF	Lawson Woods	IMDv3 Streaming: Theory,
	2.05 PM	PM	186	Lawson Woods	Implementation, Technical Details
	2:25	2:45	PSF	Amruthesh	IMDv3 in Practice: MD Packages,
	PM	PM	186	Thirumalaiswamy	Performance
	2:45	3:05	PSF	Heekun Cho	Streaming Applications Demo (2
	PM	PM	186	Hookan Ono	Examples)
	3:05	3:30	PSF		Tea / Coffee Break
	PM	PM	foyer		100 / 00,500 2,000
	3:30	4:30	PSF	Amruthesh	Streaming Workshop
	$_{\mathrm{PM}}$	PM	186	Thirumalaiswamy	S
	4:30	4:50	PSF	Jamie Rowe	Integrating MDAnalysis Streaming
	PM	PM	186		Analysis with WESTPA
	4:50	5:10	PSF	Heekun Cho	Streaming Applications Demo
	PM	PM	186		0 11
	5:10	5:20	PSF		Tea / Coffee Break
	PM	PM	foyer		, 00

	Time	Time			
Day	Start	End	Location	on Speaker(s)	Title
	5:20	5:50	PSF		Open Hackathon
	PM	PM	186		_
	5:50	5:55	PSF	Irfan Alibay	Closing Remarks
	PM	PM	186		
Monday	9:00	9:10	PSH	Jennifer Clark	Opening Remarks
Nov. 10th	AM	AM	350		-
	9:10	10:10	PSH	Lillian Chong	Keynote: From Protein Structure to
	AM	AM	350		Function: Weighted Ensembles Beyond
					Machine Learning
	10:10	10:30	PSH	Ricardo Xavier	2Danalysis: An Open Source Project to
	AM	AM	350	Ramirez	Study Complex Lipid Membranes and
					Their Interaction with Biopolymers
	10:30	10:50	PSH	Tyler Reddy	TBD
	AM	AM	350		
	10:50	11:20	PSH		Tea / Coffee Break
	AM	AM	350		
	11:20	11:40	PSH	Lea <mark>h Rep</mark> a	Membrane-Assisted Transport of Bulky
	AM	AM	350		Substrates in a Secondary Active
					Transporter
	11:40	12:00	PSH	Prateek Rai	Computer-Aided Discovery and Design
	AM	PM	350		Novel Autotaxin-LPA Signaling Axis
					Inhibitors to Overcome Cancer
					Therapeutic Resistance.
	12:00	12:20	PSH	Alyssa Travitz	Large-Scale Collaborative Assessment of
	PM	PM	350		Binding Free Energy Calculations for
			- 0		Drug Discovery using OpenFE
	12:20	1:35	PSH		Lunch
	PM	PM	350		T. 1
	1:35	2:00 DM	PSH		Lightning Talks
	PM	PM	350	I 1 D 1 1	II: AICA A E: 1 C
				Joshua Raphael	Using tICA to Find Causes of
				Uy	Conformational Transitions in
				Shubham Kumar	Transporters. Unraveling Spectral Shifts in Microbial
				Pandey	Rhodopsin through Machine Learning
				1 andey	and Molecular Dynamics
				Noah Vasconez	Phosphate Aggregation in Aqueous
				roan vasconez	Solution: Comparison of Non-Polarizabl
					and Polarizable Force Fields
				Matt Kochert	Using a Reservoir-Based Molecular
				Widou Hooner	Dynamics Approach to Rapidly Converg
					New Hamiltonians.
	2:00	2:20	PSH	Sudheesh Kumar	OPES-Driven Active-Learning Potential
	PM	PM	350	Ethirajan	Reveal Node-Assisted Imidazole Diffusion
				J 	in Flexible SALEM-2 MOF
	2:20	2:40	PSH	Bryan Gworek	Elucidating the Mechanisms Underlying
	PM	PM	350	v v	Phospholipid-Mediated Capsid Formatic
		•			and Binding between Arc and PI(3)P
	2:40	3:00	PSH	Brady Johnston	Shining a Ray-Traced Light on
	PM	PM	350	V	Simulations
	3:00	3:30	PSH		Tea / Coffee Break
	PM	PM	350		, 00
	PM	PM	350		

Day	Time Start	Time End	Locatio	on Speaker(s)	Title
	3:30 PM	3:55 PM	PSH 350		Lightning Talks
	1 1/1	1 1/1	990	Chris Ausbeck	Directional Coupling and Asymmetry Explain Ligand Specific Allosteric Regulation in LacI
				Danis Yangaliev	Coarse-Grained RNA Model for the Martini 3 Force Field
				Jessica Bodosa	Improving CHARMM36 Force Field for Lipid Interactions with Calcium and Beryllium using Free Energy Perturbation
				Ramón González-Pérez	Exploring the Limits of Ether Oxygen Inclusion in Polymer Membranes for Alkali Ion Separations
	3:55	4:15	PSH	Augustine	Predicting Interacting Domains in the
	PM	PM	350	Chimezie Onyema	Nucleosome from Time-Related Kinetic Correlation
	4:15	4:35	PSH	Chenou Zhang	Conformational Transition of Prestin, th
	PM	PM	350		Electro-Mechanical Transducer in Outer Hair Cells of the Inner Ear
	4:35 PM	4:40 PM	PSH 350	Oliver Beckstein	Intro to Master Classes
	4:40	5:10	PSH	Irfan Alibay	Master Class: Intro to MDAKits and
	PM	PM	350		Contributing
	5:10	5:25	PSH		Tea / Coffee Break
	PM	PM	350		
	5:25	5:40	PSH	Oliver Beckstein	Master Classes: Topology Attributes +
	PM	PM	350	H M D	DSSP
	5:40 DM	5:55 DM	PSH	Hugo MacDermott-	Master Classes: Distopia in MDAnalysis
	PM	PM	350	Opeskin	Magter Classes, Clasing Demonts
	5:55 PM	6:00 PM	PSH 350	Irfan Alibay	Master Classes: Closing Remarks
Tuesday	8:30	8:55	PSF	Workshop	Workshop Installation Clinic
Nov. 11th	AM	AM	186	Presenters	Workshop Instantation Chine
11011 11011	8:55 AM	9:00 AM	PSF 186	Yuxuan Zhuang	Opening Remarks
	9:00 AM	11:00 AM	PSF 186	Brady Johnston and Yuxuan Zhuang	Visualization Workshop
	11:00	11:20	PSF	Ü	Tea / Coffee Break
	AM	AM	foyer		
	11:20 AM	11:50 AM	PSF 186		Lightning Talks
				Jherome Brylle Woody Santos	A Stratified Nani Approach for Fast and Scalable K-Means Clustering of Large Molecular Dynamics Datasets
				Rekha Joshi	Identification of Specific Interactions between the Membrane Protein Prestin and Lipids
				Pooja Shrestha	None
				Jennifer Clark	ZENO-MDAKit

Day	Time Start	Time End	Location Speaker(s)		Title	
				Michael A. Sauer	Dynamics-Informed Machine Learning: Physics-Guided Feature Importance Identifies Key Residues for Enzyme Design	
	11:50	12:00	PSF	Irfan Alibay	Intro to the Open Molecular Software	
	AM	PM	186	V	Foundation (OMSF)	
	12:00	1:05	PSF	Jeffry Wagner,	Open Force Field Workshop	
	$_{\mathrm{PM}}$	PM	186	Jennifer Clark	•	
	1:05	2:20	PSF		Lunch	
	$_{\mathrm{PM}}$	PM	foyer			
	2:20	3:20	PSF	Mike Henry,	Open Free Energy Workshop	
	PM	PM	186	Alyssa Travitz, Irfan Alibay		
	3:20	3:35	PSF	v	Tea / Coffee Break	
	$_{\mathrm{PM}}$	PM	foyer		, ,	
	3:35	4:35	$\overset{\circ}{\mathrm{PSF}}$	Hugo MacDermott-	OpenADMET Workshop	
	$_{\mathrm{PM}}$	PM	186	Opeskin		
	4:35	4:50	PSF	Irfan Alibay	Closing Remarks	
	$_{\mathrm{PM}}$	PM	186			

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