

Tempe, Arizona, USA

-	Time	Time		a 🔷	
Day	Start	End	atio	n Sper er	Title
Sunday	9:00	9:15	PSF	Oliv <mark>er Bec</mark> stein	N come an Ope ing, General
Nov. 9th	AM	AM	186		• Organizatio Remarks
	9:15	9:45	PSF	Hu Mermott-	MDAi lysis. Pre ent and Future
	AM	AM	286	pesl	
	9:45	10:45	₹ F	Mat hias Hoden	Keynote: Pic second Timescale
	-AM	AM	187		Information in Mccrosecond Simulations
	10:45	11:30	rSF		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
4					Single-Stranded RNA
	11:50	12:10	PSF	Jenn <mark>ifer Cl</mark> ark	Hydrati <mark>on Contribution to the Solva</mark> tion
>	AM	PM	186		Free Energy of Water-Soluble Polymers
	12:1 <mark>0</mark>	_ 12:30	PSF	Amruthesh	Studying the Effect of Solvent Crowding
	PM	PM	186	Thirumalaiswamy	on Protein Energy Landscapes
	12:30	1:45	PSF		Lunch
	PM	PM	foyer		
	1:45	2:05	PSF	Matthias Heyden	IMD Streaming Introduction
	PM	PM	186		
	2:05	2:25	PSF	Lawson Woods	IMDv3 Streaming: Theory,
	PM	PM	186		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		Examples)
	3:05	3:30	PSF		Tea / Coffee Break
	PM	PM	foyer		, ,
	3:30	4:30	$\overrightarrow{\mathrm{PSF}}$	Amruthesh	Streaming Workshop
	PM	PM	186	Thirumalaiswamy	
	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		~
	5:10	5:20	PSF		Tea / Coffee Break
	$_{\mathrm{PM}}$	$_{\mathrm{PM}}$	foyer		, 50

	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	Leah Repa	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
	40.00	4.05	Dan		Drug Discovery using OpenFE
	12:20	1:35	PSH		Lunch
	PM	PM	350		T: 14 : (D) 11
	1:35 DM	2:00 PM	PSH		Lightning Talks
	PM	PM	350	Jackus Dankasl	Hainer tICA to Find Courses of
				Joshua Raphael Uy	Using tICA to Find Causes of Conformational Transitions in
				ОУ	Transporters.
				Shubham Kumar	Unraveling Spectral Shifts in Microbial
				Pandey	Rhodopsin through Machine Learning
				1 andey	and Molecular Dynamics
				Noah Vasconez	Phosphate Aggregation in Aqueous
				rodii vasconez	Solution: Comparison of Non-Polarizabl
					and Polarizable Force Fields
				Matt Kochert	Using a Reservoir-Based Molecular
				Widou Hooffer	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 Diffusio
		.=		- J - /	in Flexible SALEM-2 MOF
	2:20	2:40	PSH	Bryan Gworek	Elucidating the Mechanisms Underlying
	PM	PM	350	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	J	Simulations
	3:00	3:30	PSH		Tea / Coffee Break
	$_{\mathrm{PM}}$	$_{\mathrm{PM}}$	350		, 00

Day	Time Start	Time End	Locatio	on Speaker(s)	Title
	3:30 PM	3:55 PM	PSH 350		Lightning Talks
				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	II M D	DSSP
	5:40 PM	5:55 PM	PSH 350	Hugo MacDermott- Opeskin	Master Classes: Distopia in MDAnalysis
	5:55	6:00	PSH	Irfan Alibay	Master Classes: Closing Remarks
	9.55 PM	PM	350	IIIali Alibay	Waster Classes. Closing Itemarks
Tuesday	8:30	8:55	PSF	Workshop	Workshop Installation Clinic
Nov. 11th	AM	AM	186	Presenters	The state of the s
	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	O .	Tea / Coffee Break
	AM 11:20	AM 11:50	$_{ m PSF}$		Lightning Talks
	AM	AM	186		
				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	
	PM	PM	186	Jennifer Clark	•	
	1:05	2:20	PSF		Lunch	
	PM	PM	foyer			
	2:20	3:20	$ m P\ddot{S}F$	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		, 00	
	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	
	PM	PM	186			

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