



Tempe, Arizona, USA

Day	Time Start	Time End	Locatio	on Speak <mark>er(s</mark>)	Title
Sunday	9:00	9:15	PSF	Oliv <mark>er Bec</mark> kstein	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 Single-Stranded RNA
	11:50	12:10	PSF	Jennifer Clark	Hydration Contribution to the Solvation
	AM	PM	186	Jennier Clark	Free Energy of Water-Soluble Polymers
	12:10	12:30	PSF	Amruthesh	Studying the Effect of Solvent Crowding
	PM	PM	186	Thirumalaiswamy	on Protein Energy Landscapes
	12:30	1:45	PSF	I iiii diiididii waiiij	Lunch
	PM	PM	foyer		
	1:45	2:05	$\overset{\circ}{\mathrm{PSF}}$	Matthias Heyden	IMD Streaming Introduction
	PM	PM	186	v	
	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	PSF	Amruthesh	Streaming Workshop
	PM	PM	186	Thirumalaiswamy	
	4:30	4:50	PSF	Jamie Rowe	Integrating MDAnalysis Streaming
	PM	PM	186	II 1 C''	Analysis with WESTPA
	4:50	5:10	PSF	Heekun Cho	Streaming Applications Demo
	PM	PM	186		T / C 01 D 1
	5:10	5:20	PSF		Tea / Coffee Break
	PM	PM	foyer		





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Day	Time Start	Time End	Locatio	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	T 10 Cl 1	
Monday	9:00	9:10	PSH	Jennifer Clark	Opening Remarks
Nov. 10th	AM	AM 10:10	350 PSH	Lillian Chang	Vouseta, Thora Duatain Churching to
	9:10 AM	AM	350	Lillian Chong	Keynote: From Protein Structure to Function: Weighted Ensembles Beyond
	AWI	AWI	330		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
	11.40	10.00	DCII	Durterly Det	Transporter
	11:40 AM	12:00 PM	PSH 350	Prateek Rai	Computer-Aided Discovery and Design
	AM	PM	550		Novel Autotaxin-LPA Signaling Axis Inhibitors to Overcome Cancer
					Therapeutic Resistance.
	12:00	12:20	PSH	Alyssa Travitz	Large-Scale Collaborative Assessment o
	PM	PM	350	111,550 110,102	Binding Free Energy Calculations for
					Drug Discovery using OpenFE
	12:20	1:35	PSH		Lunch
	PM	PM	35 0		
	1:35	2:00	PSH		Lightning Talks
	PM	PM	350		
				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 and cy	and Molecular Dynamics
				Noah Vasconez	Phosphate Aggregation in Aqueous
					Solution: Comparison of Non-Polarizab
					and Polarizable Force Fields
				Matt Kochert	Using a Reservoir-Based Molecular
					Dynamics Approach to Rapidly Conver
					New Hamiltonians.
	2:00	2:20	PSH	Sudheesh Kumar	OPES-Driven Active-Learning Potentia
	PM	PM	350	Ethirajan	Reveal Node-Assisted Imidazole Diffusio
	2.20	2.40	DCII	Davian Commale	in Flexible SALEM-2 MOF
	2:20 PM	2:40 PM	PSH 350	Bryan Gworek	Elucidating the Mechanisms Underlying Phospholipid-Mediated Capsid Formation
	1 1/1	I 1VI	990		and Binding between Arc and PI(3)P
	2:40	3:00	PSH	Brady Johnston	Shining a Ray-Traced Light on
	2.40 PM	9.00 PM	350	2100, 00111150011	Simulations
	3:00	3:30	PSH		Tea / Coffee Break
	PM	PM	350		, 00
		•			_





Day	Time Start	Time End	Location	n 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	Exploring the Limits of Ether Oxygen
				González-Pérez	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	4:40	PSH	Oliver Beckstein	Intro to Master Classes
	PM	PM	350		
	4:40	5:10	PSH	Irfan Alibay	Master Class: Intro to MDAKits and
	PM	PM	350 DGH		Contributing
	5:10	5:25	PSH		Tea / Coffee Break
	PM	PM	350 DCH	Ol: D14-:	Martin Classon Tanalama Attuibates I
	5:25 PM	5:40 PM	PSH 350	Oliver Beckstein	Master Classes: Topology Attributes + DSSP
	5:40	5:55	PSH	Hugo MacDermott-	Master Classes: Distopia in MDAnalysis
	9.40 PM	9.55 PM	350	Opeskin	Waster Classes. Distopia ili MDAliarysi
	5:55	6:00	PSH	Irfan Alibay	Master Classes: Closing Remarks
	PM	PM	350	IIIaii IIIiay	Master Classes. Closing Remains
Tuesday	8:30	8:55	PSF	Workshop	Workshop Installation Clinic
Nov. 11th	AM	AM	186	Presenters	1
	$\begin{array}{c} 8:55 \\ \mathrm{AM} \end{array}$	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	2	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





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	Time	Time			
Day	Start	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	PSF	Mike Henry,	Open Free Energy Workshop
	PM	PM	186	Alyssa Travitz, Irfan Alibay	
	3:20	3:35	PSF		Tea / Coffee Break
	PM	PM	foyer		,
	3:35	4:35	PSF	Hugo MacDermott-	OpenADMET Workshop
	PM	PM	186	Opeskin	
	4:35	4:50	PSF	Irfan <mark>Aliba</mark> y	Closing Remarks
	PM	PM	186		

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