

Time	SESSION	May 7th, 2018	Scalable and Reproducible Structural Bioinformatics Workshop & Hackathon 2018 Application of Big Data Technology
8:45 - 9:00 am	Registration & Dinner Signup		
9:00 - 9:30 am	Introductions and Workshop Overview Peter Rose		
9:30 - 10:00 am	Introduction to Macromolecular Transmission Format, software installation Peter Rose		
10:30 - 11:00 am	Break		
11:00 - 12:00 pm	3D Structure visualization in Jupyter Notebook, software installation cont. Mars Huang		
12:00 - 1:00 pm	Lunch (Patio)		
12:30 - 12:40 pm	Datacenter tour (group 1) Keith Green		
12:40 -12:50 pm	Datacenter tour (group 2) Keith Green		
12:50 - 1:00 pm	Group photo Jon Lou		
1:00 - 2:30 pm	Introduction to Apache Spark (RDDs & DataFrames) Mars Huang		
2:30 - 3:00 pm	Break		
3:00 - 4:30 pm	Basic mmtfPyspark Peter Rose		
5:00 pm ...	Dinner (Patio) <u>signup required</u>		
9:00 - 10:30 am	Advanced mmtfPypark Peter Rose	May 8th, 2018	
10:30 - 11:00 am	Break		
11:00 - 12:00 pm	mmtfPypark datastructures Peter Rose		
12:00 - 1:00 pm	Lunch (Patio)		
1:00 - 2:30 pm	Sequence/Structure feature extraction and machine learning Mars Huang		
2:30 - 3:00 pm	Break		
3:00 - 4:30 pm	Q&A, brainstorm ideas for hackathon, form groups		
6:00 -9:00 pm	BBQ dinner on the beach: La Jolla Shores Hotel, 8110 Camino Del Oro <u>signup required</u>	May 9th, 2018	
9:00 - 10:30 am	Work in groups		
10:30 - 10:45 am	Break		
10:45 - 12:00 pm	Work in groups		
12:00 - 1:00 pm	Lunch (Patio)		
1:00 - 2:00 pm	Groups annotate notebooks and upload to Github		
2:00 - 2:30 pm	Demos and report out from groups		
2:30 - 2:45 pm	Break		
2:45 -4:15 pm	Demos and report out from groups		
4:15 - 4:30 pm	Feedback and collaborative developments		
4:30 pm ...	Take out dinner (Patio) <u>signup required</u>		
4:30 pm ...	Open ended lab, mentors available for questions		
Location: SDSC Auditorium			