

	Monday, Sep 10	Tuesday, Sep 11	Wednesday, Sep 12	Thursday, Sep 13	Friday, Sep 14
09:00	opening	Learning effective molecular models from experimental observables Cecilia Clementi (Rice)	High Dimensional Neural Network Potentials Jörg Behler (U Göttingen)	Workshop 1 Marc Mosch Josua Vieten	Workshop 4 Nicola Marzari
09:30	Image processing and supervised/unsupervised machine learning Roger French (Case Western)				coffee break
10:00		Machine Learning for Synthetic Chemistry Connor Coley (MIT)	Concepts, Challenges, and Results of the NOMAD Laboratory Pasquale Pavone (HU Berlin)	Workshop 2 Kristian Thygesen Daniel Urban Peter Steinbach	
10:30	coffee break				coffee break
11:00	coffee break	Machine Learning for Synthetic Chemistry Connor Coley (MIT)	Concepts, Challenges, and Results of the NOMAD Laboratory Pasquale Pavone (HU Berlin)	Workshop 2 Kristian Thygesen Daniel Urban Peter Steinbach	luncheon
11:30	Introduction to Machine Learning with Python Thomas Lehmann (TU Dresden)				
12:00		luncheon	luncheon	luncheon	Round Table with Participants
12:30	Introduction to Graph-based Learning Dominik Alfke (TU Chemnitz)				
13:00		luncheon	coffee break	coffee break	coffee break
13:30	coffee break				
14:00		hands on	hands on	hands on	coffee break
14:30	Get-to-Know				
15:00		Get-to-Know	Poster Session	Get-to-Know	coffee break
15:30	Get-to-Know				
16:00		Get-to-Know	Poster Session	Get-to-Know	coffee break
16:30	Get-to-Know				
17:00		Get-to-Know	Poster Session	Get-to-Know	coffee break
17:30	Get-to-Know				
18:00		Get-to-Know	Poster Session	Get-to-Know	coffee break
18:30	Get-to-Know				
19:00		Get-to-Know	Poster Session	Get-to-Know	coffee break
19:30	Get-to-Know				
20:00		Get-to-Know	Poster Session	Get-to-Know	coffee break
Lectures					
Cecilia Clementi	Learning effective molecular models from experimental observables				
Connor Coley	Machine Learning for Synthetic Chemistry				
Dominik Alfke	Introduction to Graph-based Learning				
Frank Noe	Machine Learning for Molecular Dynamics				
Jörg Behler	High Dimensional Neural Network Potentials				
Kristian Sommer Thygesen	High-throughput computational discovery of novel opto-electronic materials				
Pasquale Pavone	Concepts, Challenges, and Results of the NOMAD (Novel Materials Discovery) Laboratory				
Roger French	Computer Vision and Machine Learning in a Distributed Computing Environment: Photovoltaic Degradation Quantified Using Electroluminescent Images				
Thomas Lehmann	Introduction to Machine Learning with Python				
Workshops					
Daniel Urban	A machine-learning approach for the discovery of novel hard-magnetic phases				
S. Mehdi Vaez Allaei	Phononic heat transport and thermal rectification in low dimensional heterostructures				
Roger French	Time Series Analysis and Network Modeling of PV Modules and Power Plants to Decrease Degradation Rates				
Kristian Sommer Thygesen	High-throughput computational discovery of novel opto-electronic materials II				
Nicola Marzari	Computational design and discovery of novel materials				
Josua Vieten	Perovskite Materials design for two-step thermochemical processes				
Marc Mosch	The Material HUB				
Jörg Schuster	Simulation of Materials, Processes and Devices for Nanoelectronics Engineering				
Peter Steinbach	Benchmarks of and hardware for machine learning				
Reinhard Scholz	Thermally activated delayed fluorescence - A new route to more efficient OLEDs?				
Contributed Talks					
Nikita Sengar	Bayesian Optimization to Model Polymorphism and Phase Transition Mechanisms in Small Molecule Organic Semiconductors				
Antonis Stellas	Smart nanometrology with artificial intelligence				
Tuan Nguyen	Design of bio-inspired materials: Emerging innovation from deep learning				