Machine Learning in Physics

Vienna Doctoral School in Physics-ESI Winter School 2020

Schedule – Week 1

	Mon, 10 Feb	Tue, 11 Feb	Wed, 12 Feb	Thu, 13 Feb		Fri, 14 Feb
	Introduction to Machine Learning		Machine Learning in Materials Science			Case Studies & Discussion
09.00	Lecture Marylou Gabrié New York University	Lecture Philipp Grohs University of Vienna	Lecture Jörg Behler University of Göttingen	Lecture Michele Ceriotti EPFL	09.00	Torsten Möller University of Vienna
					10.00	Peter Wirnsberger DeepMind
10.30	*Coffee Break*	*Coffee Break*	*Coffee Break*	*Coffee Break*	11.00	*Coffee Break*
					11.30	Stefan Thurner MedUni Vienna & CSH Vienna
11.00	Lecture Philipp Grohs University of Vienna	Lecture Philipp Grohs University of Vienna	Lecture Jörg Behler University of Göttingen	Lecture Michele Ceriotti EPFL	12.30	Patrick Blies, EnliteAI Jason Hölscher-Obermaier, ondewo Valentin Stauber, Iris.ai Paul Tiwald, Mostly AI
12.30	*Lunch Break*	*Lunch Break*	*Lunch Break*	*Lunch Break*	13.00	*AI Start-Up Lunch*
14.00 – 17.00	Tutorial Philipp Grohs University of Vienna / Tutorial Marylou Gabrié New York University	Tutorial Philipp Grohs University of Vienna	Tutorial Jörg Behler University of Göttingen	Tutorial Michele Ceriotti EPFL	14.30	Cameron Buckner University of Houston
19.00	*Welcome Dinner*				15.30 – 16.30	Panel discussion Möller, Wirnsberger, Thurner, Buckner

Registration: Monday, 10 February 2020, at 08.30 in front of Christian Doppler lecture hall, 3rd floor, Faculty of Physics, Boltzmanngasse 5, 1090 Vienna

Lectures: Christian Doppler lecture hall, 3rd floor | Tutorials: Ernst Mach lecture hall, 2nd floor | Coffee Break: in front of Christian Doppler lecture hall, 3rd floor | Lunch Break: self-organized

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Schedule – Week 2

	Mon, 17 Feb	Tue, 18 Feb	Wed, 19 Feb	Thu, 20 Feb
	Machine Learning in Quantum Science		Machine Learning in Particle Physics	
09.00	Lecture Hans Briegel University of Innsbruck	Lecture Florian Marquardt MPI Erlangen	Lecture Wolfgang Waltenberger HEPHY	Lecture Gregor Kasieczka Hamburg University
10.30	*Coffee Break*	*Coffee Break*	*Coffee Break*	*Coffee Break*
11.00	Lecture Hans Briegel University of Innsbruck	Lecture Florian Marquardt MPI Erlangen	Lecture Wolfgang Waltenberger HEPHY	Lecture Gregor Kasieczka Hamburg University
12.30	*Lunch Break*	*Lunch Break*	*Lunch Break*	*Lunch Break*
14.00 – 17.00	Tutorial Hans Briegel University of Innsbruck	Tutorial Florian Marquardt MPI Erlangen	Tutorial Wolfgang Waltenberger HEPHY	Tutorial Gregor Kasieczka Hamburg University

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