

# Program of Summer School on Deep Learning and Bayesian Methods 2018

	August 27, Mon	August 28, Tue	August 29, Wed	August 30, Thu	August 31, Fri	September 1, Sat
10:00-11:30	Opening remarks	Introduction to stochastic optimization  Anton Rodomanov	Advanced methods of variational inference  Max Welling (University of Amsterdam)	Generative models  Dmitry Ulyanov Egor Zakharov	Gaussian processes  Evgeny Burnaev	Bayesian neural networks and variational dropout  Dmitry Molchanov
	Introduction to Bayesian Methods  Dmitry Vetrov					
11:30-12:00	Coffee break					
12:00-13:30	Bayesian reasoning  Kirill Struminsky	Scalable Bayesian methods  Dmitry Kropotov	Reinforcement learning through the lense of variational inference  Sergey Bartunov (DeepMind)	Adversarial learning  Dmitry Ulyanov	Bayesian optimization  Alexey Zaytsev Yermek Kapushev	Sparse variational dropout and variance networks  Kirill Neklyudov
13:30-14:30	Lunch					
14:30-16:00	Models with latent variables and EM-algorithm  Dmitry Vetrov	Variational autoencoders  Dmitry Vetrov	Reinforcement learning  Alexander Fritsler	Extending the Reparameterization Trick  Michael Figurnov (DeepMind)	Deep Gaussian processes  Maurizio Filippone (EURECOM)	Neural networks sparsification  Arsenii Ashukha
16:00-16:15	Break			16:00 — 16:20 Yaroslav Labutin-Rymsho. Samsung Research	Break	16:00-16:30 Coffee break
16:15-17:45	EM-algorithm  Ekaterina Lobacheva	Discrete latent variables  Artem Sobolev	Distributional reinforcement learning  Alexander Grishin		Markov chain Monte Carlo  Dmitry Kropotov	16:30 — 18:00 Information bottleneck Alessandro Achille (University of California) by video conference
17:45-18:15	Coffee break			16:20 — evening Social event	Coffee break	18:00-19:00 Break
18:15-19:45	EM-algorithm  Nadia Chirkova	Variational autoencoders  Kirill Struminsky	Distributional reinforcement learning  Arsenii Ashukha		Stochastic Markov chain Monte Carlo  Dmitry Vetrov	19:00 — evening Reception

Colors: Lecture Invited talk Practical session