Summer School on Deep Learning and Bayesian Methods 2018: preliminary program

	August 27, Mon	August 28, Tue	August 29, Wed	August 30, Thu	August 31, Fri	September 1, Sat
10:00-11:30	Introduction to Bayesian Methods	Introduction to stochastic optimization	Keynote lecture. Max Welling (University of Amsterdam). Advanced methods of variational inference	Adversarial learning	Gaussian processes	Bayesian neural networks and variational dropout
11:30-12:00	Coffee break					
12:00-13:30	Bayesian reasoning	Scalable Bayesian methods	Reinforcement learning through the lense of variational inference	Generative adversarial networks	Practical assignment on Bayesian optimization	Sparse variational dropout and variance networks
13:30-14:30	Lunch					
14:30-16:00	Models with latent variables and EM-algorithm	Variational autoencoders	Practical assignment on reinforcement learning	TBA	Deep Gaussian processes	Practical assignment on neural networks sparsification
16:00-16:30	Coffee break					
16:30-18:00	Practical assignment on EM-algorithm	Gumbel-softmax	Distributional reinforcement learning	Social event	Markov chain Monte Carlo	Keynote lecture. Alessandro Achille (University of California). Informational Bottleneck
18:00-18:15	Break				Break	
18:15-19:45	Practical assignment on EM-algorithm	Practical assignment on variational autoencoders	Practical assignment on distributional reinforcement learning		Stochastic Markov chain Monte Carlo	18:45 — evening Closing ceremony and reception

Colors:	Lecture	Keynote lecture	Practical assignment