

# NIPS 2016

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## TUTORIALS

**Deep Reinforcement Learning Through Policy Optimization**  
Pieter Abbeel (OpenAI, UC Berkeley) and John Schulman (OpenAI)

**Large-scale Optimization: Beyond Stochastic Gradient Descent and Convexity**  
Francis Bach (INRIA, ENS) and Suvrit Sra (MIT)

**Variational Inference: Foundations and Modern Methods**  
David Blei (Columbia), Shakir Mohamed (Google Deepmind) and Rajesh Ranganath (Princeton)

**Natural Language Processing for Computational Social Science**  
Cristian Danescu-Niculescu-Mizil (Cornell) and Lillian Lee (Cornell)

**Generative Adversarial Networks**  
Ian Goodfellow (OpenAI)

**Theory and Algorithms for Forecasting Non-stationary Time Series**  
Vitaly Kuznetsov (Google) and Mehryar Mohri (Courant Institute, Google Research)

**Deep Learning for Building AI Systems**  
Andrew Ng (Baidu, Stanford University)

**ML Foundations and Methods for Precision Medicine and Healthcare**  
Suchi Saria (Johns Hopkins) and Peter Schulam (Johns Hopkins)

**Crowdsourcing: Beyond Label Generation**  
Jenn Wortman Vaughan (Microsoft Research)

## INVITED SPEAKERS

**Reproducible Research: the Case of the Human Microbiome**  
Susan Holmes (Stanford University)

**Dynamic Legged Robots**  
Marc Raibert (Boston Dynamics)

**Intelligent Biosphere**  
Drew Purves (Google DeepMind)

**Predictive Learning**  
Yann LeCun (Facebook and New York University)

**Machine Learning and Likelihood-Free Inference in Particle Physics**  
Kyle Cranmer (New York University)

**Learning About the Brain: Neuroimaging and Beyond**  
Irina Rish (IBM T.J. Watson Research Center)

**Engineering Principles From Stable And Developing Brains**  
Saket Navlakha (The Salk Institute for Biological Studies)

## SYMPOSIA

**Recurrent Neural Networks and other Machines that Learn Algorithms**  
Alex Graves (Google DeepMind)  
Juergen Schmidhuber (IDSIA)  
Rupesh Srivastava (IDSIA)  
Sepp Hochreiter (Johannes Kepler University)

**Deep Learning**  
Navdeep Jaitly (Google)  
Roger Grosse (University of Toronto)  
Yann LeCun (New York University & Facebook)

**Machine Learning and the Law**  
Adrian Weller (Cambridge, Alan Turing Inst.)  
Conrad McDonnell (Gray's Inn Tax Chambers)  
Jatinder Singh (University of Cambridge)  
Thomas Grant (University of Cambridge)

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