

# ICML 2018 Schedule

## Wednesday July 11th

11:00 – 11:20 AM @ Victoria (Oral)  
06:15 – 09:00 PM @ Hall B #105 (Poster)

### Efficient Neural Audio Synthesis

Nal Kalchbrenner · Erich Elsen · Karen Simonyan · Seb Noury · Norman Casagrande · Edward Lockhart · Florian Stimberg · Aäron van den Oord · Sander Dieleman · Koray Kavukcuoglu

11:20 – 11:30 AM @ Victoria (Oral)  
06:15 – 09:00 PM @ Hall B #92 (Poster)

### Learning to search with MCTSnets

Arthur Guez · Theophane Weber · Ioannis Antonoglou · Karen Simonyan · Oriol Vinyals · Daan Wierstra · Remi Munos · David Silver

11:30 – 11:40 AM @ A6 (Oral)  
06:15 – 09:00 PM @ Hall B #165 (Poster)

### LeapsAndBounds: A Method for

#### Approximately Optimal Algorithm Configuration

Gellért Weisz · Andras Gyorgy · Csaba Szepesvari

11:40 – 11:50 AM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #3 (Poster)

### Implicit Quantile Networks for

#### Distributional Reinforcement Learning

Will Dabney · Georg Ostrovski · David Silver · Remi Munos

11:50 AM – 12:00 PM @ Victoria (Oral)  
06:15 – 09:00 PM @ Hall B #84 (Poster)

### Graph Networks as Learnable

#### Physics Engines for Inference and Control

Alvaro Sanchez · Nicolas Heess · Jost Springenberg · Josh Merel · Martin Riedmiller · Raia Hadsell · Peter Battaglia

11:50 AM – 12:00 PM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #62 (Poster)

### More Robust Doubly Robust Off-policy Evaluation

Mehrdad Farajtabar · Yinlam Chow · Mohammad Ghavamzadeh

02:10 – 02:20 PM @ Victoria (Oral)  
06:15 – 09:00 PM @ Hall B #130 (Poster)

### Conditional Neural Processes

Marta Garnelo · Dan Rosenbaum · Chris Maddison · Tiago Ramalho · David Saxton · Murray Shanahan · Yee Teh · Danilo J. Rezende · S. M. Ali Eslami

02:30 – 02:50 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #101 (Poster)

### Generative Temporal Models with Spatial

#### Memory for Partially Observed Environments

Marco Fraccaro · Danilo J. Rezende · Yori Zwols · Alexander Pritzel · S. M. Ali Eslami · Fabio Viola

02:50 – 03:00 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #90 (Poster)

### Disentangling by Factorising

Hyunjik Kim · Andriy Mnih

04:20 – 04:40 PM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #41 (Poster)

### Learning by Playing - Solving Sparse

#### Reward Tasks from Scratch

Martin Riedmiller · Roland Hafner · Thomas Lampe · Michael Neunert · Jonas Degraeve · Tom Van de Wiele · Vlad Mnih · Nicolas Heess · Jost Springenberg

04:40 – 04:50 PM @ Victoria (Oral)  
06:15 – 09:00 PM @ Hall B #121 (Poster)

### Fast Parametric Learning with Activation Memorization

Jack Rae · Chris Dyer · Peter Dayan · Timothy Lillicrap

04:40 – 04:50 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #112 (Poster)

### Learning Implicit Generative Models

#### with the Method of Learned Moments

Suman Ravuri · Shakir Mohamed · Mihaela Rosca · Oriol Vinyals

04:40 – 04:50 PM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #135 (Poster)

### Automatic Goal Generation for Reinforcement Learning Agents

Carlos Florensa · David Held (Carnegie Mellon University) · Xinyang Geng (UC Berkeley) · Pieter Abbeel (UC Berkeley, International Computer Science Institute)

05:00 – 05:20 PM @ A3 (Oral)  
06:15 – 09:00 PM @ Hall B #208 (Poster)

### Machine Theory of Mind

Neil Rabinowitz · Frank Perbet · Francis Song · Chiyuan Zhang · S. M. Ali Eslami · Matthew Botvinick

05:20 – 05:40 PM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #172 (Poster)

### Path Consistency Learning in Tsallis Entropy Regularized MDPs

Yinlam Chow · Ofir Nachum · Mohammad Ghavamzadeh

05:20 – 05:40 PM @ A3 (Oral)  
06:15 – 09:00 PM @ Hall B #163 (Poster)

### Transfer in Deep Reinforcement Learning Using Successor

#### Features and Generalised Policy Improvement

Andre Barreto · Diana Borsa · John Quan · Tom Schaul · David Silver · Matteo Hessel · Daniel J. Mankowitz · Augustin Zidek · Remi Munos

05:40 – 05:50 PM @ A3 (Oral)  
06:15 – 09:00 PM @ Hall B #209 (Poster)

### Been There, Done That: Meta-Learning

#### with Episodic Recall

Samuel Ritter · Jane Wang · Zeb Kurth-Nelson · Siddhant Jayakumar · Charles Blundell · Razvan Pascanu · Matthew Botvinick

05:50 – 06:00 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #132 (Poster)

### Adversarial Risk and the Dangers of

#### Evaluating Against Weak Attacks

Jonathan Uesato · Brendan O'Donoghue · Pushmeet Kohli · Aäron van den Oord

## Thursday July 12th

11:00 – 11:10 AM @ A3 (Oral)  
06:15 – 09:00 PM @ Hall B #126 (Poster)

### Learning to Coordinate with Coordination Graphs

#### in Repeated Single-Stage Multi-Agent Decision Problems

Eugenio Bargiacchi (Vrije Universiteit Brussel) · Timothy Verstraeten (Vrije Universiteit Brussel) · Diederik Roijers (Vrije Universiteit Brussel / Vrije Universiteit Amsterdam) · Ann Nowé (Vrije Universiteit Brussel) · Hado van Hasselt

02:50 – 03:10 PM @ A5 (Oral)  
06:15 – 09:00 PM @ Hall B #123 (Poster)

### Bandits with Delayed, Aggregated Anonymous Feedback

Ciara Pike-Burke (Lancaster University) · Shipra Agrawal (Columbia University) · Csaba Szepesvari · Steffen Grünewälder (Lancaster University)

04:00 – 04:20 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #201 (Poster)

### The Mechanics of n-Player Differentiable Games

David Balduzzi · Sebastien Racaniere · James Martens · Jakob Foerster · Karl Tuyls · Thore Graepel

04:50 – 05:00 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #116 (Poster)

### LaVAN: Localized and Visible Adversarial Noise

Danny Karmon (Bar Ilan University) · Daniel Zoran · Yoav Goldberg (Bar Ilan University)

05:00 – 05:20 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #84 (Poster)

### Synthesizing Programs for Images

#### using Reinforced Adversarial Learning

Yaroslav Ganin · Tejas Kulkarni · Igor Babuschkin · S. M. Ali Eslami · Oriol Vinyals

05:20 – 05:40 PM @ K1 (Oral)  
06:15 – 09:00 PM @ Hall B #110 (Poster)

### Measuring abstract reasoning in neural networks

Adam Santoro · Felix Hill · David GT Barrett · Ari S Morcos · Timothy Lillicrap

## Friday July 13th

09:50 – 10:10 AM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #176 (Poster)

### Scalable Distributed Deep-RL with Importance Weighted Actor-Learner Architectures

Lasse Espeholt · Hubert Soyer · Remi Munos · Karen Simonyan · Vlad Mnih · Tom Ward · Yotam Doron · Vlad Firoiu · Tim Harley · Iain Dunning · Shane Legg · Koray Kavukcuoglu

10:10 – 10:20 AM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #13 (Poster)

### Mix & Match - Agent Curricula for Reinforcement Learning

Wojciech Czarnecki · Siddhant Jayakumar · Max Jaderberg · Leonard Hasenclever · Yee Whye Teh · Nicolas Heess · Simon Osindero · Razvan Pascanu

04:00 – 04:20 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #25 (Poster)

### Parallel WaveNet: Fast High-Fidelity Speech Synthesis

Aäron van den Oord · Yazhe Li · Igor Babuschkin · Karen Simonyan · Oriol Vinyals · Koray Kavukcuoglu · George van den Driessche · Edward Lockhart · Luis C Cobo · Florian Stimberg · Norman Casagrande · Dominik Grewe · Seb Noury · Sander Dieleman · Erich Elsen · Nal Kalchbrenner · Heiga Zen · Alex Graves · Helen King · Tom Walters · Dan Belov · Demis Hassabis

04:00 – 04:20 PM @ Victoria (Oral)  
06:15 – 09:00 PM @ Hall B #168 (Poster)

### Progress & Compress: A scalable framework for continual learning

Jonathan Schwarz · Wojciech Czarnecki · Jelena Luketina · Agnieszka Grabska-Barwinska · Yee Whye Teh · Razvan Pascanu · Raia Hadsell

04:20 – 04:40 PM @ A7 (Oral)  
06:15 – 09:00 PM @ Hall B #110 (Poster)

### Autoregressive Quantile Networks for Generative Modeling

Georg Ostrovski · Will Dabney · Remi Munos

05:50 – 06:00 PM @ A1 (Oral)  
06:15 – 09:00 PM @ Hall B #14 (Poster)

### The Uncertainty Bellman Equation and Exploration

Brendan O'Donoghue · Ian Osband · Remi Munos · Vlad Mnih

05:50 – 06:00 PM @ K11 (Oral)  
06:15 – 09:00 PM @ Hall B #77 (Poster)

### Gradient Descent for Sparse Rank-One Matrix Completion for Crowd-Sourced Aggregation of Sparsely Interacting Workers

Yao Ma (Boston University) · Alexander Olshevsky (Boston University) · Csaba Szepesvari · Venkatesh Saligrama (Boston University)