

## Tue Dec 4th

Machine Learning Meets Public Policy: What to Expect and How to Cope

Tue Dec 4th 08:30 – 09:20 AM @ Rooms 220 CDE  
Invited Talk – In Tue Invited Talk 1  
Edward W Felten

Test of Time Award

Tue Dec 4th 09:20 – 09:40 AM @  
Talk – In Test of Time

Coffee Break

Tue Dec 4th 09:40 – 10:05 AM @  
Break –

## In Tue Track 1 – Session 1

**Tue Dec 4th 10:05 – 10:20 AM @ Room 220 CD – Tue Dec 4th 10:30 – 10:45 AM @ Room 220 CD**

On Neuronal Capacity

Tue Dec 4th 10:05 – 10:20 AM @ Room 220 CD  
Oral – In Tue Track 1 – Session 1  
Pierre Baldi · Roman Vershynin  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #142

Learning Overparameterized Neural Networks via Stochastic Gradient Descent on Structured Data

Tue Dec 4th 10:20 – 10:25 AM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 1  
Yuanzhi Li · Yingyu Liang  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #143

Size-Noise Tradeoffs in Generative Networks

Tue Dec 4th 10:25 – 10:30 AM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 1  
Bolton Bailey · Matus Telgarsky  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #141

Dendritic cortical microcircuits approximate the backpropagation algorithm

Tue Dec 4th 10:30 – 10:45 AM @ Room 220 CD  
Oral – In Tue Track 1 – Session 1  
Jo?o Sacramento · Rui Ponte Costa · Yoshua Bengio · Walter Senn  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #139

## In Tue Track 2 – Session 1

**Tue Dec 4th 10:05 – 10:20 AM @ Room 220 E – Tue Dec 4th 10:30 – 10:45 AM @ Room 220 E**

On the Dimensionality of Word Embedding

Tue Dec 4th 10:05 – 10:20 AM @ Room 220 E  
Oral – In Tue Track 2 – Session 1  
Zi Yin · Yuanyuan Shen  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #101

Unsupervised Cross-Modal Alignment of Speech and Text Embedding Spaces

Tue Dec 4th 10:20 – 10:25 AM @ Room 220 E  
Spotlight – In Tue Track 2 – Session 1  
Yu-An Chung · Wei-Hung Weng · Schrasing Tong · James Glass  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #156

Diffusion Maps for Textual Network Embedding

Tue Dec 4th 10:25 – 10:30 AM @ Room 220 E  
Spotlight – In Tue Track 2 – Session 1  
Xinyuan Zhang · Yitong Li · Dinghan Shen · Lawrence Carin  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #152

A Retrieve-and-Edit Framework for Predicting Structured Outputs

Tue Dec 4th 10:30 – 10:45 AM @ Room 220 E  
Oral – In Tue Track 2 – Session 1  
Tatsunori Hashimoto · Kelvin Guu · Yonatan Oren · Percy Liang  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #154

## In Tue Track 3 – Session 1

**Tue Dec 4th 10:05 – 10:20 AM @ Room 517 CD – Tue Dec 4th 10:30 – 10:45 AM @ Room 517 CD**

Phase Retrieval Under a Generative Prior

Tue Dec 4th 10:05 – 10:20 AM @ Room 517 CD  
Oral – In Tue Track 3 – Session 1  
Paul Hand · Oscar Leong · Vlad Voroninski  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #162

Global Geometry of Multichannel Sparse Blind Deconvolution on the Sphere

Tue Dec 4th 10:20 – 10:25 AM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 1  
Yanjun Li · Yoram Bresler  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #161

Theoretical Linear Convergence of Unfolded ISTA and Its Practical Weights and Thresholds

Tue Dec 4th 10:25 – 10:30 AM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 1  
Xiaohan Chen · Jialin Liu · Zhangyang Wang · Wotao Yin  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #163

Spectral Filtering for General Linear Dynamical Systems

Tue Dec 4th 10:30 – 10:45 AM @ Room 517 CD  
Oral – In Tue Track 3 – Session 1  
Elad Hazan · HOLDEN LEE · Karan Singh · Cyril Zhang · Yi Zhang  
Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #167

## In Tue Demonstrations

**Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D3 – Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D5**

Ruuh: A Deep Learning Based Conversational Social Agent

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D3  
Demonstration – In Tue Demonstrations  
Puneet Agrawal · Manoj Kumar Chinnakotla · Sonam Damani · Meghana Joshi · Kedhar Nath Narahari · Khyatti Gupta · Nitya Raviprakash · Umang Gupta · Ankush Chatterjee · Abhishek Mathur · Sneha Magapu

Reproducing Machine Learning Research on Binder

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510  
Demonstration – In Tue Demonstrations  
Jessica Forde · Tim Head · Chris Holdgraf · M Pacer · F?lix-Antoine Fortin · Fernando Perez

A machine learning environment to determine novel malaria policies

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D9  
Demonstration – In Tue Demonstrations  
Oliver Bent · Sekou L Remy · Nelson Bore

**A Hands-free Natural User Interface (NUI) for AR/VR Head-Mounted Displays Exploiting Wearer's Facial Gestures**

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D7  
Demonstration – In Tue Demonstrations  
Jaekwang Cha · Shiho Kim · Jinhyuk Kim

**Game for Detecting Backdoor Attacks on Deep Neural Networks using Activation Clustering**

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D4  
Demonstration – In Tue Demonstrations  
Casey Dugan · Werner Geyer · Aabhas Sharma · Ingrid Lange · Dustin Ramsey Torres · Bryant Chen · Nathalie Baracaldo Angel · Heiko Ludwig

**Deep Neural Networks Running Onboard Anki's Robot, Vector**

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D1  
Demonstration – In Tue Demonstrations  
Lorenzo Riano · Andrew Stein · Mark Palatucci

**TensorFlow Dance - Learning to Dance via Machine Learning**

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510  
Demonstration – In Tue Demonstrations  
Yaz Santissi · Jonathan DEKHTIAR · Chintan Trivedi

**A model-agnostic web interface for interactive music composition by inpainting**

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D8  
Demonstration – In Tue Demonstrations  
Ga'tan Hadjeres · Th'is Bazin · Ashis Pati

**TextWorld: A Learning Environment for Text-based Games**

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D10  
Demonstration – In Tue Demonstrations  
Marc-Alexandre C?t? · Wendy Tay · Eric Yuan

**Deep learning to improve quality control in pharmaceutical manufacturing**

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D5  
Demonstration – In Tue Demonstrations  
Michael Sass Hansen · Sebastian Brandes Kraaijenzank

## In Tue Poster Session A

**Modelling sparsity, heterogeneity, reciprocity and community structure in temporal interaction data**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #1  
Poster – In Tue Poster Session A  
Xenia Miscouridou · Francois Caron · Yee Whye Teh

**The Lingering of Gradients: How to Reuse Gradients Over Time**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #2  
Poster – In Tue Poster Session A  
Zeyuan Allen-Zhu · David Simchi-Levi · Xinshang Wang

**Quadratic Decomposable Submodular Function Minimization**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #3  
Poster – In Tue Poster Session A  
Pan Li · Niao He · Olga Milenkovic

**On the Global Convergence of Gradient Descent for Over-parameterized Models using Optimal Transport**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #4  
Poster – In Tue Poster Session A  
L?na?c Chizat · Francis Bach

**Leveraging the Exact Likelihood of Deep Latent Variable Models**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #5  
Poster – In Tue Poster Session A  
Pierre-Alexandre Mattei · Jes Frellsen

**DVAE#: Discrete Variational Autoencoders with Relaxed Boltzmann Priors**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #6  
Poster – In Tue Poster Session A  
Arash Vahdat · Evgeny Andriyash · William Macready

**Amortized Inference Regularization**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #7  
Poster – In Tue Poster Session A  
Rui Shu · Hung Bui · Shengjia Zhao · Mykel J Kochenderfer · Stefano Ermon

**Gumbolt: Extending Gumbel trick to Boltzmann priors**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #8  
Poster – In Tue Poster Session A  
Amir H Khoshaman · Mohammad Amin

**Constrained Generation of Semantically Valid Graphs via Regularizing Variational Autoencoders**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #9  
Poster – In Tue Poster Session A  
Tengfei Ma · Jie Chen · Cao Xiao

**Invertibility of Convolutional Generative Networks from Partial Measurements**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #10  
Poster – In Tue Poster Session A  
Fangchang Ma · Ulas Ayaz · Sertac Karaman

**Glow: Generative Flow with Invertible 1x1 Convolutions**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #11  
Poster – In Tue Poster Session A  
Durk Kingma · Prafulla Dhariwal

**Multimodal Generative Models for Scalable Weakly-Supervised Learning**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #12  
Poster – In Tue Poster Session A  
Mike Wu · Noah Goodman

**IntroVAE: Introspective Variational Autoencoders for Photographic Image Synthesis**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #13  
Poster – In Tue Poster Session A  
Huaibo Huang · zhihang li · Ran He · Zhenan Sun · Tieniu Tan

**Towards Text Generation with Adversarially Learned Neural Outlines**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #14  
Poster – In Tue Poster Session A  
Sandeep Subramanian · Sai Rajeswar Mudumba · Alessandro Sordani · Adam Trischler · Aaron Courville · Chris Pal

**Unsupervised Image-to-Image Translation Using Domain-Specific Variational Information Bound**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #15  
Poster – In Tue Poster Session A  
Hadi Kazemi · Sobhan Soleymani · Fariborz Taherkhani · Seyed Iranmanesh · Nasser Nasrabadi

**Adversarial Scene Editing: Automatic Object Removal from Weak Supervision**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #16  
Poster – In Tue Poster Session A  
Rakshith R Shetty · Mario Fritz · Bernt Schiele

**Generalizing Point Embeddings using the Wasserstein Space of Elliptical Distributions**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #17  
Poster – In Tue Poster Session A  
Boris Muzellec · Marco Cuturi

#### Banach Wasserstein GAN

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #18  
Poster – In Tue Poster Session A  
Jonas Adler · Sebastian Lunz

#### A Convex Duality Framework for GANs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #19  
Poster – In Tue Poster Session A  
Farzan Farnia · David Tse

#### On the Convergence and Robustness of Training GANs with Regularized Optimal Transport

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #20  
Poster – In Tue Poster Session A  
Maziar Sanjabi · Jimmy Ba · Meisam Razaviyayn · Jason Lee

#### On gradient regularizers for MMD GANs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #21  
Poster – In Tue Poster Session A  
Michael Arbel · Dougal Sutherland · Mikołaj Bińkowski · Arthur Gretton

#### PacGAN: The power of two samples in generative adversarial networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #22  
Poster – In Tue Poster Session A  
Zinan Lin · Ashish Kheta · Giulia Fanti · Sewoong Oh

#### Are GANs Created Equal? A Large-Scale Study

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #23  
Poster – In Tue Poster Session A  
Mario Lucic · Karol Kurach · Marcin Michalski · Sylvain Gelly · Olivier Bousquet

#### Disconnected Manifold Learning for Generative Adversarial Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #24  
Poster – In Tue Poster Session A  
Mahyar Khayatkhoei · Maneesh K. Singh · Ahmed Elgammal

#### Hessian-based Analysis of Large Batch Training and Robustness to Adversaries

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #25  
Poster – In Tue Poster Session A  
Zhewei Yao · Amir Gholami · Qi Lei · Kurt Keutzer · Michael W. Mahoney

#### Fast and Effective Robustness Certification

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #26  
Poster – In Tue Poster Session A  
Gagandeep Singh · Timon Gehr · Matthew Mirman · Markus P. Schel · Martin Vechev

#### Graphical Generative Adversarial Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #27  
Poster – In Tue Poster Session A  
Chongxuan Li · Max Welling · Jun Zhu · Bo Zhang

#### Deep Defense: Training DNNs with Improved Adversarial Robustness

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #28  
Poster – In Tue Poster Session A  
Ziang Yan · Yiwen Guo · Changshui Zhang

#### Learning to Repair Software Vulnerabilities with Generative Adversarial Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #29  
Poster – In Tue Poster Session A  
Jacob Harer · Onur Ozdemir · Tomo Lazovich · Christopher Reale · Rebecca Russell · Louis Kim · peter chin

#### Memory Replay GANs: Learning to Generate New Categories without Forgetting

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #30  
Poster – In Tue Poster Session A  
Chenshen Wu · Luis Herranz · Xialei Liu · yaxing wang · Joost van de Weijer · Bogdan Raducanu

#### Unsupervised Attention-guided Image-to-Image Translation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #31  
Poster – In Tue Poster Session A  
Youssef Alami Mejjati · Christian Richardt · James Tompkin · Darren Cosker · Kwang In Kim

#### Conditional Adversarial Domain Adaptation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #32  
Poster – In Tue Poster Session A  
Mingsheng Long · ZHANGJIE CAO · Jianmin Wang · Michael Jordan

#### Video-to-Video Synthesis

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #33  
Poster – In Tue Poster Session A  
Ting-Chun Wang · Ming-Yu Liu · Jun-Yan Zhu · Nikolai Yakovenko · Andrew Tao · Jan Kautz · Bryan Catanzaro

#### Generalized Zero-Shot Learning with Deep Calibration Network

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #34  
Poster – In Tue Poster Session A  
Shichen Liu · Mingsheng Long · Jianmin Wang · Michael Jordan

#### Low-shot Learning via Covariance-Preserving Adversarial Augmentation Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #35  
Poster – In Tue Poster Session A  
Hang Gao · Zheng Shou · Alireza Zareian · Hanwang Zhang · Shih-Fu Chang

#### Trading robust representations for sample complexity through self-supervised visual experience

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #36  
Poster – In Tue Poster Session A  
Andrea Tacchetti · Stephen Voinea · Georgios Evangelopoulos

#### TADAM: Task dependent adaptive metric for improved few-shot learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #37  
Poster – In Tue Poster Session A  
Boris Oreshkin · Pau Rodriguez Lopez · Alexandre Lacoste

#### FishNet: A Versatile Backbone for Image, Region, and Pixel Level Prediction

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #38  
Poster – In Tue Poster Session A  
Shuyang Sun · Jiangmiao Pang · Jianping Shi · Shuai Yi · Wanli Ouyang

#### Batch-Instance Normalization for Adaptively Style-Invariant Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #39  
Poster – In Tue Poster Session A  
Hyeonseob Nam · Hyo-Eun Kim

#### A<sup>2</sup>-Nets: Double Attention Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #40  
Poster – In Tue Poster Session A  
Yunpeng Chen · Yannis Kalantidis · Jianshu Li · Shuicheng Yan · Jiashi Feng

**Pelee: A Real-Time Object Detection System on Mobile Devices**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #41  
Poster – In Tue Poster Session A  
Jun Wang · Tanner Bohn · Charles Ling

**PointCNN: Convolution On X-Transformed Points**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #42  
Poster – In Tue Poster Session A  
Yangyan Li · Rui Bu · Mingchao Sun · Wei Wu · Xinhan Di · Baoquan Chen

**Deep Neural Networks with Box Convolutions**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #43  
Poster – In Tue Poster Session A  
Egor Burkov · Victor Lempitsky

**An intriguing failing of convolutional neural networks and the CoordConv solution**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #44  
Poster – In Tue Poster Session A  
Rosanne Liu · Joel Lehman · Piero Molino · Felipe Petroski Such · Eric Frank · Alex Sergeev · Jason Yosinski

**3D Steerable CNNs: Learning Rotationally Equivariant Features in Volumetric Data**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #45  
Poster – In Tue Poster Session A  
Maurice Weiler · Wouter Boomsma · Mario Geiger · Max Welling · Taco Cohen

**Moonshine: Distilling with Cheap Convolutions**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #46  
Poster – In Tue Poster Session A  
Elliot J. Crowley · Gavin Gray · Amos Storkey

**Kalman Normalization: Normalizing Internal Representations Across Network Layers**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #47  
Poster – In Tue Poster Session A  
Guangrun Wang · jiefeng peng · Ping Luo · Xinjiang Wang · Liang Lin

**SplineNets: Continuous Neural Decision Graphs**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #48  
Poster – In Tue Poster Session A  
Cem Keskin · Shahram Izadi

**CapProNet: Deep Feature Learning via Orthogonal Projections onto Capsule Subspaces**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #49  
Poster – In Tue Poster Session A  
Liheng Zhang · Marzieh Edraki · Guo-Jun Qi

**Which Neural Net Architectures Give Rise to Exploding and Vanishing Gradients?**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #50  
Poster – In Tue Poster Session A  
Boris Hanin

**Exact natural gradient in deep linear networks and its application to the nonlinear case**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #51  
Poster – In Tue Poster Session A  
Alberto Bernacchia · Mate Lengyel · Guillaume Hennequin

**Fast Approximate Natural Gradient Descent in a Kronecker Factored Eigenbasis**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #52  
Poster – In Tue Poster Session A  
Thomas George · C?sar Laurent · Xavier Bouthillier · Nicolas Ballas · Pascal Vincent

**Post: Device Placement with Cross-Entropy Minimization and Proximal Policy Optimization**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #53  
Poster – In Tue Poster Session A  
Yuanxiang Gao · Li Chen · Baochun Li

**Paraphrasing Complex Network: Network Compression via Factor Transfer**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #54  
Poster – In Tue Poster Session A  
Jangho Kim · Seonguk Park · Nojun Kwak

**Learning Compressed Transforms with Low Displacement Rank**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #55  
Poster – In Tue Poster Session A  
Anna Thomas · Albert Gu · Tri Dao · Atri Rudra · Christopher R?

**Knowledge Distillation by On-the-Fly Native Ensemble**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #56  
Poster – In Tue Poster Session A  
xu lan · Xiatian Zhu · Shaogang Gong

**Scalable methods for 8-bit training of neural networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #57  
Poster – In Tue Poster Session A  
Ron Banner · Itay Hubara · Elad Hoffer · Daniel Soudry

**Training Deep Models Faster with Robust, Approximate Importance Sampling**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #58  
Poster – In Tue Poster Session A  
Tyler Johnson · Carlos Guestrin

**Collaborative Learning for Deep Neural Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #59  
Poster – In Tue Poster Session A  
Guocong Song · Wei Chai

**A Linear Speedup Analysis of Distributed Deep Learning with Sparse and Quantized Communication**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #60  
Poster – In Tue Poster Session A  
Peng Jiang · Gagan Agrawal

**Bayesian Distributed Stochastic Gradient Descent**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #61  
Poster – In Tue Poster Session A  
Michael Teng · Frank Wood

**Regularizing by the Variance of the Activations' Sample-Variations**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #62  
Poster – In Tue Poster Session A  
Etai Littwin · Lior Wolf

**BML: A High-performance, Low-cost Gradient Synchronization Algorithm for DML Training**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #63  
Poster – In Tue Poster Session A  
Songtao Wang · Dan Li · Yang Cheng · Jinkun Geng · Yanshu Wang · Shuai Wang · Shu-Tao Xia · Jianping Wu

**L4: Practical loss-based stepsize adaptation for deep learning**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #64  
Poster – In Tue Poster Session A  
Michal Rolinek · Georg Martius

#### Synaptic Strength For Convolutional Neural Network

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #65  
Poster – In Tue Poster Session A  
CHEN LIN · Zhao Zhong · Wu Wei · Junjie Yan

#### ChannelNets: Compact and Efficient Convolutional Neural Networks via Channel-Wise Convolutions

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #66  
Poster – In Tue Poster Session A  
Hongyang Gao · Zhengyang Wang · Shuiwang Ji

#### Frequency-Domain Dynamic Pruning for Convolutional Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #67  
Poster – In Tue Poster Session A  
Zhenhua Liu · Jizheng Xu · Xiulian Peng · Ruiqin Xiong

#### TETRIS: Tile-matching the Tremendous Irregular Sparsity

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #68  
Poster – In Tue Poster Session A  
Yu Ji · Ling Liang · Lei Deng · Youyang Zhang · Youhui Zhang · Yuan Xie

#### Heterogeneous Bitwidth Binarization in Convolutional Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #69  
Poster – In Tue Poster Session A  
Joshua Fromm · Shwetak Patel · Matthai Philipose

#### HitNet: Hybrid Ternary Recurrent Neural Network

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #70  
Poster – In Tue Poster Session A  
Peiqi Wang · Xinfeng Xie · Lei Deng · Guoqi Li · Dongsheng Wang · Yuan Xie

#### A General Method for Amortizing Variational Filtering

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #71  
Poster – In Tue Poster Session A  
Joseph Marino · Milan Cvitkovic · Yisong Yue

#### Multiple Instance Learning for Efficient Sequential Data Classification on Resource-constrained Devices

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #72  
Poster – In Tue Poster Session A  
Don Dennis · Chirag Pabbaraju · Harsha Vardhan Simhadri · Pra-teek Jain

#### Navigating with Graph Representations for Fast and Scalable Decoding of Neural Language Models

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #73  
Poster – In Tue Poster Session A  
Minjia Zhang · Wenhan Wang · Xiaodong Liu · Jianfeng Gao · Yux-iong He

#### Representer Point Selection for Explaining Deep Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #74  
Poster – In Tue Poster Session A  
Chih-Kuan Yeh · Joon Kim · Ian En-Hsu Yen · Pradeep Ravikumar

#### Interpreting Neural Network Judgments via Minimal, Stable, and Symbolic Corrections

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #75  
Poster – In Tue Poster Session A  
Xin Zhang · Armando Solar-Lezama · Rishabh Singh

#### DropMax: Adaptive Variational Softmax

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #76  
Poster – In Tue Poster Session A  
Hae Beom Lee · Juho Lee · Saehoon Kim · Eunho Yang · Sung Ju Hwang

#### Out-of-Distribution Detection using Multiple Semantic Label Representations

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #77  
Poster – In Tue Poster Session A  
Gabi Shalev · Yossi Adi · Joseph Keshet

#### End-to-end Symmetry Preserving Inter-atomic Potential Energy Model for Finite and Extended Systems

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #78  
Poster – In Tue Poster Session A  
Linfeng Zhang · Jiequn Han · Han Wang · Wissam Saidi · Roberto Car · Weinan E

#### Deep Predictive Coding Network with Local Recurrent Processing for Object Recognition

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #79  
Poster – In Tue Poster Session A  
Kuan Han · Haiguang Wen · Yizhen Zhang · Di Fu · Eugenio Culur-ciello · Zhongming Liu

#### SLAYER: Spike Layer Error Reassignment in Time

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #80  
Poster – In Tue Poster Session A  
Sumit Bam Shrestha · Garrick Orchard

#### DeepPINK: reproducible feature selection in deep neural networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #81  
Poster – In Tue Poster Session A  
Yang Lu · Yingying Fan · Jinchi Lv · William Stafford Noble

#### Learning long-range spatial dependencies with horizontal gated recurrent units

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #82  
Poster – In Tue Poster Session A  
Drew Linsley · Junkyung Kim · Vijay Veerabadran · Charles Windolf · Thomas Serre

#### Neural Interaction Transparency (NIT): Disentangling Learned Interactions for Improved Interpretability

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #83  
Poster – In Tue Poster Session A  
Michael Tsang · Hanpeng Liu · Sanjay Purushotham · Pavankumar Murali · Yan Liu

#### A Bridging Framework for Model Optimization and Deep Propagation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #84  
Poster – In Tue Poster Session A  
Risheng Liu · Shichao Cheng · xiaokun liu · Long Ma · Xin Fan · Zhongxuan Luo

#### The Importance of Sampling in Meta-Reinforcement Learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #85  
Poster – In Tue Poster Session A  
Bradly Stadie · Ge Yang · Rein Houthooft · Peter Chen · Yan Duan · Yuhuai Wu · Pieter Abbeel · Ilya Sutskever

#### Latent Alignment and Variational Attention

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #86  
Poster – In Tue Poster Session A  
Yuntian Deng · Yoon Kim · Justin Chiu · Demi Guo · Alexander Rush

#### Variational Memory Encoder-Decoder

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #87  
Poster – In Tue Poster Session A  
Hung Le · Truyen Tran · Thin Nguyen · Svetha Venkatesh

#### Relational recurrent neural networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #88  
Poster – In Tue Poster Session A  
Adam Santoro · Ryan Faulkner · David Raposo · Jack Rae · Mike Chrzanowski · Theophane Weber · Daan Wierstra · Oriol Vinyals · Razvan Pascanu · Timothy Lillicrap

#### Learning to Reason with Third Order Tensor Products

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #89  
Poster – In Tue Poster Session A  
Imanol Schlag · J?rgen Schmidhuber

#### Reversible Recurrent Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #90  
Poster – In Tue Poster Session A  
Matthew MacKay · Paul Vicol · Jimmy Ba · Roger Grosse

#### Breaking the Activation Function Bottleneck through Adaptive Parameterization

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #91  
Poster – In Tue Poster Session A  
Sebastian Flennerhag · Hujun Yin · John Keane · Mark Elliot

#### BRITS: Bidirectional Recurrent Imputation for Time Series

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #92  
Poster – In Tue Poster Session A  
Wei Cao · Qi Wei · Jian Li · Hao Zhou · Lei Li · Yitan Li

#### Complex Gated Recurrent Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #93  
Poster – In Tue Poster Session A  
Moritz Wolter · Angela Yao

#### Middle-Out Decoding

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #94  
Poster – In Tue Poster Session A  
Shikib Mehri · Leonid Sigal

#### Recurrently Controlled Recurrent Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #95  
Poster – In Tue Poster Session A  
Yi Tay · Anh Tuan Luu · Siu Cheung Hui

#### Tree-to-tree Neural Networks for Program Translation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #96  
Poster – In Tue Poster Session A  
Xinyun Chen · Chang Liu · Dawn Song

#### HOUDINI: Lifelong Learning as Program Synthesis

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #97  
Poster – In Tue Poster Session A  
Lazar Valkov · Dipak Chaudhari · Akash Srivastava · Charles Sutton · Swarat Chaudhuri

#### Neural Guided Constraint Logic Programming for Program Synthesis

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #98  
Poster – In Tue Poster Session A  
Lisa Zhang · Gregory Rosenblatt · Ethan Fetaya · Renjie Liao · William Byrd · Matthew Might · Raquel Urtasun · Richard Zemel

#### Embedding Logical Queries on Knowledge Graphs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #99  
Poster – In Tue Poster Session A  
Will Hamilton · Payal Bajaj · Marinka Zitnik · Dan Jurafsky · Jure Leskovec

#### Expanding Holographic Embeddings for Knowledge Completion

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #100  
Poster – In Tue Poster Session A  
Yexiang Xue · Yang Yuan · Zhitian Xu · Ashish Sabharwal

#### On the Dimensionality of Word Embedding

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #101  
Poster – In Tue Poster Session A  
Zi Yin · Yuanyuan Shen

#### Flexible neural representation for physics prediction

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #102  
Poster – In Tue Poster Session A  
Damian Mrowca · Chengxu Zhuang · Elias Wang · Nick Haber · Li Fei-Fei · Josh Tenenbaum · Daniel Yamins

#### Content preserving text generation with attribute controls

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #103  
Poster – In Tue Poster Session A  
Lajanugen Logeswaran · Honglak Lee · Samy Bengio

#### Recurrent Relational Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #104  
Poster – In Tue Poster Session A  
Rasmus Palm · Ulrich Paquet · Ole Winther

#### GLoMo: Unsupervised Learning of Transferable Relational Graphs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #105  
Poster – In Tue Poster Session A  
Zhilin Yang · Jake Zhao · Bhuwan Dhingra · Kaiming He · William Cohen · Ruslan Salakhutdinov · Yann LeCun

#### Predictive Uncertainty Estimation via Prior Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #106  
Poster – In Tue Poster Session A  
Andrey Malinin · Mark Gales

#### Adversarial Multiple Source Domain Adaptation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #107  
Poster – In Tue Poster Session A  
Han Zhao · Shanghang Zhang · Guanhang Wu · Jos? M. F. Moura · Joao P. Costeira · Geoffrey Gordon

#### Adversarial Examples that Fool both Computer Vision and Time-Limited Humans

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #108  
Poster – In Tue Poster Session A  
Gamaleldin Elsayed · Shreya Shankar · Brian Cheung · Nicolas Papernot · Alexey Kurakin · Ian Goodfellow · Jascha Sohl-Dickstein

#### A Simple Cache Model for Image Recognition

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #109  
Poster – In Tue Poster Session A  
Emin Orhan

#### Co-teaching: Robust training of deep neural networks with extremely noisy labels

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #110  
Poster – In Tue Poster Session A  
Bo Han · Quanming Yao · Xingrui Yu · Gang Niu · Miao Xu · Weihua Hu · Ivor Tsang · Masashi Sugiyama

#### Improved Network Robustness with Adversary Critic

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #111  
Poster – In Tue Poster Session A  
Alexander Matyasko · Lap-Pui Chau

**Unsupervised Learning of Object Landmarks through Conditional Image Generation**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #112  
 Poster – In Tue Poster Session A  
 Tomas Jakab · Ankush Gupta · Hakan Bilen · Andrea Vedaldi

**Multi-Task Learning as Multi-Objective Optimization**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #113  
 Poster – In Tue Poster Session A  
 Ozan Sener · Vladlen Koltun

**Deep Anomaly Detection Using Geometric Transformations**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #114  
 Poster – In Tue Poster Session A  
 Izhak Golan · Ran El-Yaniv

**Practical Deep Stereo (PDS): Toward applications-friendly deep stereo matching**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #115  
 Poster – In Tue Poster Session A  
 Stepan Tulyakov · Anton Ivanov · François Fleuret

**VideoCapsuleNet: A Simplified Network for Action Detection**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #116  
 Poster – In Tue Poster Session A  
 Kevin Duarte · Yogesh Rawat · Mubarak Shah

**With Friends Like These, Who Needs Adversaries?**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #117  
 Poster – In Tue Poster Session A  
 Saumya Jetley · Nicholas Lord · Philip Torr

**Multi-Task Zipping via Layer-wise Neuron Sharing**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #118  
 Poster – In Tue Poster Session A  
 Xiaoxi He · Zimu Zhou · Lothar Thiele

**Learning Versatile Filters for Efficient Convolutional Neural Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #119  
 Poster – In Tue Poster Session A  
 Yunhe Wang · Chang Xu · Chunjing XU · Chao Xu · Dacheng Tao

**Evolutionary Stochastic Gradient Descent for Optimization of Deep Neural Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #120  
 Poster – In Tue Poster Session A  
 Xiaodong Cui · Wei Zhang · Zoltan Tóth · Michael Picheny

**Structure-Aware Convolutional Neural Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #121  
 Poster – In Tue Poster Session A  
 Jianlong Chang · Jie Gu · Lingfeng Wang · GAOFENG MENG · SHIMING XIANG · Chunhong Pan

**Global Gated Mixture of Second-order Pooling for Improving Deep Convolutional Neural Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #122  
 Poster – In Tue Poster Session A  
 Qilong Wang · Zilin Gao · Jiangtao Xie · Wangmeng Zuo · Peihua Li

**Hybrid Macro/Micro Level Backpropagation for Training Deep Spiking Neural Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #123  
 Poster – In Tue Poster Session A  
 Yingyezhe Jin · Wenrui Zhang · Peng Li

**Deep Neural Nets with Interpolating Function as Output Activation**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #124  
 Poster – In Tue Poster Session A  
 Bao Wang · Xiyang Luo · Zhen Li · Wei Zhu · Zuoqiang Shi · Stanley Osher

**Neural Edit Operations for Biological Sequences**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #125  
 Poster – In Tue Poster Session A  
 Satoshi Koide · Keisuke Kawano · Takuro Kutsuna

**Improved Expressivity Through Dendritic Neural Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #126  
 Poster – In Tue Poster Session A  
 Xundong Wu · Xiangwen Liu · wei li · qing wu

**Neural Proximal Gradient Descent for Compressive Imaging**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #127  
 Poster – In Tue Poster Session A  
 Morteza Mardani · Qingyun Sun · David Donoho · Vardan Papayan · Hatef Monajemi · Shreyas Vasanawala · John Pauly

**Sigsoftmax: Reanalysis of the Softmax Bottleneck**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #128  
 Poster – In Tue Poster Session A  
 Sekitoshi Kanai · Yasuhiro Fujiwara · Yuki Yamanaka · Shuichi Adachi

**Visualizing the Loss Landscape of Neural Nets**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #129  
 Poster – In Tue Poster Session A  
 Hao Li · Zheng Xu · Gavin Taylor · Christoph Studer · Tom Goldstein

**Clebsch-Gordan Nets: a Fully Fourier Space Spherical Convolutional Neural Network**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #130  
 Poster – In Tue Poster Session A  
 Risi Kondor · Zhen Lin · Shubhendu Trivedi

**Adaptive Sampling Towards Fast Graph Representation Learning**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #131  
 Poster – In Tue Poster Session A  
 Wenbing Huang · Tong Zhang · Yu Rong · Junzhou Huang

**NAIS-Net: Stable Deep Networks from Non-Autonomous Differential Equations**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #132  
 Poster – In Tue Poster Session A  
 Marco Ciccone · Marco Gallieri · Jonathan Masci · Christian Os-endorfer · Faustino Gomez

**Scaling provable adversarial defenses**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #133  
 Poster – In Tue Poster Session A  
 Eric Wong · Frank Schmidt · Jan Hendrik Metzen · J. Zico Kolter

**Lipschitz regularity of deep neural networks: analysis and efficient estimation**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #134  
 Poster – In Tue Poster Session A  
 Aladin Virmaux · Kevin Scaman

**Training DNNs with Hybrid Block Floating Point**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #135  
 Poster – In Tue Poster Session A  
 Mario Drumond · Tao LIN · Martin Jaggi · Babak Falsafi

**Mesh-TensorFlow: Deep Learning for Supercomputers**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #136  
Poster – In Tue Poster Session A  
Noam Shazeer · Youlong Cheng · Niki Parmar · Dustin Tran · Ashish Vaswani · Penporn Koanantakool · Peter Hawkins · HyounJoong Lee · Mingsheng Hong · Cliff Young · Ryan Sepassi · Blake Hechtman

**Thwarting Adversarial Examples: An  $L_0$ -Robust Sparse Fourier Transform**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #137  
Poster – In Tue Poster Session A  
Mitali Bafna · Jack Murtagh · Nikhil Vyas

**Bayesian Adversarial Learning**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #138  
Poster – In Tue Poster Session A  
Nanyang Ye · Zhanxing Zhu

**Dendritic cortical microcircuits approximate the backpropagation algorithm**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #139  
Poster – In Tue Poster Session A  
Jojo Sacramento · Rui Ponte Costa · Yoshua Bengio · Walter Senn

**Learning a latent manifold of odor representations from neural responses in piriform cortex**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #140  
Poster – In Tue Poster Session A  
Anqi Wu · Stan Pashkovski · Sandeep Datta · Jonathan W Pillow

**Size-Noise Tradeoffs in Generative Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #141  
Poster – In Tue Poster Session A  
Bolton Bailey · Matus Telgarsky

**On Neuronal Capacity**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #142  
Poster – In Tue Poster Session A  
Pierre Baldi · Roman Vershynin

**Learning Overparameterized Neural Networks via Stochastic Gradient Descent on Structured Data**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #143  
Poster – In Tue Poster Session A  
Yuanzhi Li · Yingyu Liang

**Deep, complex, invertible networks for inversion of transmission effects in multimode optical fibres**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #144  
Poster – In Tue Poster Session A  
Oisín Moran · Piergiorgio Caramazza · Daniele Faccio · Roderick Murray-Smith

**Learning towards Minimum Hyperspherical Energy**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #145  
Poster – In Tue Poster Session A  
Weiyang Liu · Rongmei Lin · Zhen Liu · Lixin Liu · Zhiding Yu · Bo Dai · Le Song

**Soft-Gated Warping-GAN for Pose-Guided Person Image Synthesis**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #146  
Poster – In Tue Poster Session A  
Haoye Dong · Xiaodan Liang · Ke Gong · Hanjiang Lai · Jia Zhu · Jian Yin

**Deep Attentive Tracking via Reciprocal Learning**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #147  
Poster – In Tue Poster Session A  
Shi Pu · Yibing Song · Chao Ma · Honggang Zhang · Ming-Hsuan Yang

**Robot Learning in Homes: Improving Generalization and Reducing Dataset Bias**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #148  
Poster – In Tue Poster Session A  
Abhinav Gupta · Adithyavairavan Murali · Dhiraj Prakashchand Gandhi · Lerrel Pinto

**A flexible model for training action localization with varying levels of supervision**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #149  
Poster – In Tue Poster Session A  
Guilhem Chéron · Jean-Baptiste Alayrac · Ivan Laptev · Cordelia Schmid

**Bilinear Attention Networks**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #150  
Poster – In Tue Poster Session A  
Jin-Hwa Kim · Jaehyun Jun · Byoung-Tak Zhang

**MacNet: Transferring Knowledge from Machine Comprehension to Sequence-to-Sequence Models**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #151  
Poster – In Tue Poster Session A  
Boyuan Pan · Yazheng Yang · Hao Li · Zhou Zhao · Yueting Zhuang · Deng Cai · Xiaofei He

**Diffusion Maps for Textual Network Embedding**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #152  
Poster – In Tue Poster Session A  
Xinyuan Zhang · Yitong Li · Dinghan Shen · Lawrence Carin

**FRAGE: Frequency-Agnostic Word Representation**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #153  
Poster – In Tue Poster Session A  
Chengyue Gong · Di He · Xu Tan · Tao Qin · Liwei Wang · Tie-Yan Liu

**A Retrieve-and-Edit Framework for Predicting Structured Outputs**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #154  
Poster – In Tue Poster Session A  
Tatsunori Hashimoto · Kelvin Guu · Yonatan Oren · Percy Liang

**Unsupervised Text Style Transfer using Language Models as Discriminators**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #155  
Poster – In Tue Poster Session A  
Zichao Yang · Zhiting Hu · Chris Dyer · Eric Xing · Taylor Berg-Kirkpatrick

**Unsupervised Cross-Modal Alignment of Speech and Text Embedding Spaces**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #156  
Poster – In Tue Poster Session A  
Yu-An Chung · Wei-Hung Weng · Schrasing Tong · James Glass

**GradiVeQ: Vector Quantization for Bandwidth-Efficient Gradient Aggregation in Distributed CNN Training**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #157  
Poster – In Tue Poster Session A  
Mingchao Yu · Zhifeng Lin · Krishna Narra · Songze Li · Youjie Li · Nam Sung Kim · Alexander Schwing · Murali Annavaram · Salman Avestimehr

**Gradient Sparsification for Communication-Efficient Distributed Optimization**

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #158  
Poster – In Tue Poster Session A  
Jianqiao Wangni · Jialei Wang · Ji Liu · Tong Zhang

**Bayesian multi-domain learning for cancer subtype discovery from next-generation sequencing count data**



Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #159  
Poster – In Tue Poster Session A  
Ehsan Hajiramezanali · Siamak Zamani Dadaneh · Alireza Karbalayghareh · Mingyuan Zhou · Xiaoning Qian

Parsimonious Quantile Regression of Financial Asset Tail Dynamics via Sequential Learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #160  
Poster – In Tue Poster Session A  
Xing Yan · Weizhong Zhang · Lin Ma · Wei Liu · Qi Wu

Global Geometry of Multichannel Sparse Blind Deconvolution on the Sphere

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #161  
Poster – In Tue Poster Session A  
YanJun Li · Yoram Bresler

Phase Retrieval Under a Generative Prior

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #162  
Poster – In Tue Poster Session A  
Paul Hand · Oscar Leong · Vlad Voroninski

Theoretical Linear Convergence of Unfolded ISTA and Its Practical Weights and Thresholds

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #163  
Poster – In Tue Poster Session A  
Xiaohan Chen · Jialin Liu · Zhangyang Wang · Wotao Yin

Modern Neural Networks Generalize on Small Data Sets

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #164  
Poster – In Tue Poster Session A  
Matthew Olson · Abraham Wyner · Richard Berk

Co-regularized Alignment for Unsupervised Domain Adaptation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #165  
Poster – In Tue Poster Session A  
Abhishek Kumar · Prasanna Sattigeri · Kahini Wadhawan · Leonid Karlinsky · Rogerio Feris · Bill Freeman · Gregory Wornell

Neural Networks Trained to Solve Differential Equations Learn General Representations

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #166  
Poster – In Tue Poster Session A  
Martin Magill · Faisal Qureshi · Hendrick de Haan

Spectral Filtering for General Linear Dynamical Systems

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #167  
Poster – In Tue Poster Session A  
Elad Hazan · HOLDEN LEE · Karan Singh · Cyril Zhang · Yi Zhang

Where Do You Think You're Going?: Inferring Beliefs about Dynamics from Behavior

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #168  
Poster – In Tue Poster Session A  
Sid Reddy · Anca Dragan · Sergey Levine

Lunch on your own

Tue Dec 4th 12:45 – 02:15 PM @  
Break –

Lunch on your own

Tue Dec 4th 12:45 – 02:15 PM @  
Break –

Inclusion and Diversity Town Hall

Tue Dec 4th 01:15 – 02:15 PM @ Room 517 CD  
Break –

What Bodies Think About: Bioelectric Computation Outside the Nervous System, Primitive Cognition, and Synthetic Morphology

Tue Dec 4th 02:15 – 03:05 PM @ Rooms 220 CDE  
Invited Talk – In Tue Invited Talk 2  
Michael Levin

Coffee Break

Tue Dec 4th 03:05 – 03:30 PM @  
Break –

## In Tue Track 1 – Session 2

**Tue Dec 4th 03:30 – 03:35 PM @ Room 220 CD – Tue Dec 4th 04:55 – 05:00 PM @ Room 220 CD**

Neural Voice Cloning with a Few Samples

Tue Dec 4th 03:30 – 03:35 PM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 2  
Sercan Arik · Jitong Chen · Kainan Peng · Wei Ping · Yanqi Zhou  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #91

Answerer in Questioner's Mind: Information Theoretic Approach to Goal-Oriented Visual Dialog

Tue Dec 4th 03:35 – 03:40 PM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 2  
Sang-Woo Lee · Yu-Jung Heo · Byoung-Tak Zhang  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #95

Neural-Symbolic VQA: Disentangling Reasoning from Vision and Language Understanding

Tue Dec 4th 03:40 – 03:45 PM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 2  
Kexin Yi · Jiajun Wu · Chuang Gan · Antonio Torralba · Pushmeet Kohli · Josh Tenenbaum  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #21

Learning to Optimize Tensor Programs

Tue Dec 4th 03:45 – 03:50 PM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 2  
Tianqi Chen · Lianmin Zheng · Eddie Yan · Ziheng Jiang · Thierry Moreau · Luis Ceze · Carlos Guestrin · Arvind Krishnamurthy  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #104

Generalisation of structural knowledge in the hippocampal-entorhinal system

Tue Dec 4th 03:50 – 04:05 PM @ Room 220 CD  
Oral – In Tue Track 1 – Session 2  
James Whittington · Timothy Muller · Shirely Mark · Caswell Barry · Tim Behrens  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #19

A Likelihood-Free Inference Framework for Population Genetic Data using Exchangeable Neural Networks

Tue Dec 4th 04:05 – 04:10 PM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 2  
Jeffrey Chan · Valerio Perrone · Jeffrey Spence · Paul Jenkins · Sara Mathieson · Yun Song  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #111

Generalizing Tree Probability Estimation via Bayesian Networks

Tue Dec 4th 04:10 – 04:15 PM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 2  
Cheng Zhang · Frederick A Matsen IV  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #123

Geometry Based Data Generation

Tue Dec 4th 04:15 – 04:20 PM @ Room 220 CD  
Spotlight – In Tue Track 1 – Session 2  
Ofir Lindenbaum · Jay Stanley · Guy Wolf · Smita Krishnaswamy  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #121

Point process latent variable models of larval zebrafish behavior

Tue Dec 4th 04:20 – 04:25 PM @ Room 220 CD  
 Spotlight – In Tue Track 1 – Session 2  
 Anuj Sharma · Robert Johnson · Florian Engert · Scott Linderman  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB

#### A probabilistic population code based on neural samples

Tue Dec 4th 04:25 – 04:40 PM @ Room 220 CD  
 Oral – In Tue Track 1 – Session 2  
 Sabyasachi Shivkumar · Richard Lange · Ankani Chatteraj · Ralf  
 Haefner  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #26

#### Sparse Attentive Backtracking: Temporal Credit Assignment Through Reminding

Tue Dec 4th 04:40 – 04:45 PM @ Room 220 CD  
 Spotlight – In Tue Track 1 – Session 2  
 Nan Rosemary Ke · Anirudh Goyal ALIAS PARTH GOYAL · Olexa  
 Bilaniuk · Jonathan Binas · Michael Mozer · Chris Pal · Yoshua  
 Bengio  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #23

#### Learning Temporal Point Processes via Reinforcement Learning

Tue Dec 4th 04:45 – 04:50 PM @ Room 220 CD  
 Spotlight – In Tue Track 1 – Session 2  
 Shuang Li · Shuai Xiao · Shixiang Zhu · Nan Du · Yao Xie · Le Song  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #124

#### Precision and Recall for Time Series

Tue Dec 4th 04:50 – 04:55 PM @ Room 220 CD  
 Spotlight – In Tue Track 1 – Session 2  
 Nesime Tatbul · Tae Jun Lee · Stan Zdonik · Mejbah Alam · Justin  
 Gottschlich  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #116

#### Bayesian Nonparametric Spectral Estimation

Tue Dec 4th 04:55 – 05:00 PM @ Room 220 CD  
 Spotlight – In Tue Track 1 – Session 2  
 Felipe Tobar  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #114

## In Tue Track 2 – Session 2

**Tue Dec 4th 03:30 – 03:35 PM @ Room 220 E – Tue Dec 4th  
 04:55 – 05:00 PM @ Room 220 E**

#### Evolved Policy Gradients

Tue Dec 4th 03:30 – 03:35 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Rein Houthoofd · Yuhua Chen · Phillip Isola · Bradly Stadie · Filip  
 Wolski · OpenAI Jonathan Ho · Pieter Abbeel  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #16

#### Adapted Deep Embeddings: A Synthesis of Methods for k-Shot Inductive Transfer Learning

Tue Dec 4th 03:35 – 03:40 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Tyler Scott · Karl Ridgeway · Michael Mozer  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #167

#### Bayesian Model-Agnostic Meta-Learning

Tue Dec 4th 03:40 – 03:45 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Jaesik Yoon · Taesup Kim · Ousmane Dia · Sungwoong Kim · Yoshua  
 Bengio · Sungjin Ahn  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #15

#### Probabilistic Neural Programmed Networks for Scene Generation

Tue Dec 4th 03:45 – 03:50 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Zhiwei Deng · Jiacheng Chen · YIFANG FU · Greg Mori  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #7

#### Neural Ordinary Differential Equations

Tue Dec 4th 03:50 – 04:05 PM @ Room 220 E  
 Oral – In Tue Track 2 – Session 2  
 Tian Qi Chen · Yulia Rubanova · Jesse Bettencourt · David Duve-  
 naud  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #3

#### Bias and Generalization in Deep Generative Models: An Empirical Study

Tue Dec 4th 04:05 – 04:10 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Shengjia Zhao · Hongyu Ren · Arianna Yuan · Jiaming Song · Noah  
 Goodman · Stefano Ermon  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #6

#### Robustness of conditional GANs to noisy labels

Tue Dec 4th 04:10 – 04:15 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Kiran Thekumparampil · Ashish Khetan · Zinan Lin · Sewoong Oh  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #5

#### BourGAN: Generative Networks with Metric Embeddings

Tue Dec 4th 04:15 – 04:20 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Chang Xiao · Peilin Zhong · Changxi Zheng  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #17

#### Loss Surfaces, Mode Connectivity, and Fast Ensembling of DNNs

Tue Dec 4th 04:20 – 04:25 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Timur Garipov · Pavel Izmailov · Dmitrii Podoprikin · Dmitry  
 Vetrov · Andrew Wilson  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #162

#### How Does Batch Normalization Help Optimization?

Tue Dec 4th 04:25 – 04:40 PM @ Room 220 E  
 Oral – In Tue Track 2 – Session 2  
 Shibani Santurkar · Dimitris Tsipras · Andrew Ilyas · Aleksander  
 Madry  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #10

#### Training Neural Networks Using Features Replay

Tue Dec 4th 04:40 – 04:45 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Zhouyuan Huo · Bin Gu · Heng Huang  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #12

#### Step Size Matters in Deep Learning

Tue Dec 4th 04:45 – 04:50 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Kamil Nar · Shankar Sastry  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #8

#### Neural Tangent Kernel: Convergence and Generalization in Neural Networks

Tue Dec 4th 04:50 – 04:55 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Arthur Jacot-Guillarmod · Clement Hongler · Franck Gabriel  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #9

#### Hierarchical Graph Representation Learning with Differentiable Pooling

Tue Dec 4th 04:55 – 05:00 PM @ Room 220 E  
 Spotlight – In Tue Track 2 – Session 2  
 Zhitao Ying · Jiaxuan You · Christopher Morris · Xiang Ren · Will  
 Hamilton · Jure Leskovec  
 Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #14

## In Tue Track 3 – Session 2

**Tue Dec 4th 03:30 – 03:35 PM @ Room 517 CD – Tue Dec 4th 04:55 – 05:00 PM @ Room 517 CD**

**Differentially Private Testing of Identity and Closeness of Discrete Distributions**

Tue Dec 4th 03:30 – 03:35 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Jayadev Acharya · Ziteng Sun · Huanyu Zhang  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #151

**Local Differential Privacy for Evolving Data**

Tue Dec 4th 03:35 – 03:40 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Matthew Joseph · Aaron Roth · Jonathan Ullman · Bo Waggoner  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #153

**Differentially Private k-Means with Constant Multiplicative Error**

Tue Dec 4th 03:40 – 03:45 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Uri Stemmer · Haim Kaplan  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #152

**A Spectral View of Adversarially Robust Features**

Tue Dec 4th 03:45 – 03:50 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Shivam Garg · Vatsal Sharan · Brian Zhang · Gregory Valiant  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #156

**Model-Agnostic Private Learning**

Tue Dec 4th 03:50 – 04:05 PM @ Room 517 CD  
Oral – In Tue Track 3 – Session 2  
Raef Bassily · Abhradeep Guha Thakurta · Om Dipakbhai Thakkar  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #30

**Bounded-Loss Private Prediction Markets**

Tue Dec 4th 04:05 – 04:10 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Rafael Frongillo · Bo Waggoner  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #28

**cpSGD: Communication-efficient and differentially-private distributed SGD**

Tue Dec 4th 04:10 – 04:15 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Naman Agarwal · Ananda Theertha Suresh · Felix Xinnan Yu · Sanjiv Kumar · Brendan McMahan  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #27

**Adversarially Robust Generalization Requires More Data**

Tue Dec 4th 04:15 – 04:20 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Ludwig Schmidt · Shibani Santurkar · Dimitris Tsipras · Kunal Talwar · Aleksander Madry  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #31

**Attacks Meet Interpretability: Attribute-steered Detection of Adversarial Samples**

Tue Dec 4th 04:20 – 04:25 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Guanhong Tao · Shiqing Ma · Yingqi Liu · Xiangyu Zhang  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #99

**Learning to Solve SMT Formulas**

Tue Dec 4th 04:25 – 04:40 PM @ Room 517 CD  
Oral – In Tue Track 3 – Session 2  
Mislav Balunovic · Pavol Bielik · Martin Vechev  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #105

**Towards Robust Detection of Adversarial Examples**

Tue Dec 4th 04:40 – 04:45 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Tianyu Pang · Chao Du · Yinpeng Dong · Jun Zhu  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #11

**Neural Architecture Search with Bayesian Optimisation and Optimal Transport**

Tue Dec 4th 04:45 – 04:50 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Kirthevasan Kandasamy · Willie Neiswanger · Jeff Schneider · Barnabas Poczos · Eric Xing  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #166

**Data-Driven Clustering via Parameterized Lloyd's Families**

Tue Dec 4th 04:50 – 04:55 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Maria-Florina Balcan · Travis Dick · Colin White  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #160

**Supervising Unsupervised Learning**

Tue Dec 4th 04:55 – 05:00 PM @ Room 517 CD  
Spotlight – In Tue Track 3 – Session 2  
Vikas Garg · Adam Kalai  
Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #164

## In Tue Poster Session B

**Point process latent variable models of larval zebrafish behavior**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB  
Poster – In Tue Poster Session B  
Anuj Sharma · Robert Johnson · Florian Engert · Scott Linderman

**Provably Correct Automatic Sub-Differentiation for Qualified Programs**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #2  
Poster – In Tue Poster Session B  
Sham Kakade · Jason Lee

**Neural Ordinary Differential Equations**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #3  
Poster – In Tue Poster Session B  
Tian Qi Chen · Yulia Rubanova · Jesse Bettencourt · David Duvenaud

**Information Constraints on Auto-Encoding Variational Bayes**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #4  
Poster – In Tue Poster Session B  
Romain Lopez · Jeffrey Regier · Michael Jordan · Nir Yosef

**Robustness of conditional GANs to noisy labels**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #5  
Poster – In Tue Poster Session B  
Kiran Thekumparampil · Ashish Khetan · Zinan Lin · Sewoong Oh

**Bias and Generalization in Deep Generative Models: An Empirical Study**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #6  
Poster – In Tue Poster Session B  
Shengjia Zhao · Hongyu Ren · Arianna Yuan · Jiaming Song · Noah Goodman · Stefano Ermon

**Probabilistic Neural Programmed Networks for Scene Generation**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #7  
Poster – In Tue Poster Session B  
Zhiwei Deng · Jiacheng Chen · YIFANG FU · Greg Mori

**Step Size Matters in Deep Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #8  
Poster – In Tue Poster Session B  
Kamil Nar · Shankar Sastry

**Neural Tangent Kernel: Convergence and Generalization in Neural Networks**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #9  
Poster – In Tue Poster Session B  
Arthur Jacot-Guillarmod · Clement Hongler · Franck Gabriel

**How Does Batch Normalization Help Optimization?**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #10  
Poster – In Tue Poster Session B  
Shibani Santurkar · Dimitris Tsipras · Andrew Ilyas · Aleksander Madry

**Towards Robust Detection of Adversarial Examples**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #11  
Poster – In Tue Poster Session B  
Tianyu Pang · Chao Du · Yinpeng Dong · Jun Zhu

**Training Neural Networks Using Features Replay**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #12  
Poster – In Tue Poster Session B  
Zhouyuan Huo · Bin Gu · Heng Huang

**Faster Neural Networks Straight from JPEG**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #13  
Poster – In Tue Poster Session B  
Lionel Gueguen · Alex Sergeev · Ben Kadlec · Rosanne Liu · Jason Yosinski

**Hierarchical Graph Representation Learning with Differentiable Pooling**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #14  
Poster – In Tue Poster Session B  
Zhitao Ying · Jiaxuan You · Christopher Morris · Xiang Ren · Will Hamilton · Jure Leskovec

**Bayesian Model-Agnostic Meta-Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #15  
Poster – In Tue Poster Session B  
Jaesik Yoon · Taesup Kim · Ousmane Dia · Sungwoong Kim · Yoshua Bengio · Sungjin Ahn

**Evolved Policy Gradients**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #16  
Poster – In Tue Poster Session B  
Rein Houthoofd · Yuhua Chen · Phillip Isola · Bradly Stadie · Filip Wolski · OpenAI Jonathan Ho · Pieter Abbeel

**BourGAN: Generative Networks with Metric Embeddings**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #17  
Poster – In Tue Poster Session B  
Chang Xiao · Peilin Zhong · Changxi Zheng

**Scalable End-to-End Autonomous Vehicle Testing via Rare-event Simulation**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #18  
Poster – In Tue Poster Session B  
Matthew O’Kelly · Aman Sinha · Hongseok Namkoong · Russ Tedrake · John Duchi

**Generalisation of structural knowledge in the hippocampal-entorhinal system**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #19  
Poster – In Tue Poster Session B  
James Whittington · Timothy Muller · Shirely Mark · Caswell Barry · Tim Behrens

**Task-Driven Convolutional Recurrent Models of the Visual System**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #20  
Poster – In Tue Poster Session B  
Aran Nayeibi · Daniel Bear · Jonas Kubilius · Kohitij Kar · Surya Ganguli · David Sussillo · James J DiCarlo · Daniel Yamins

**Neural-Symbolic VQA: Disentangling Reasoning from Vision and Language Understanding**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #21  
Poster – In Tue Poster Session B  
Kexin Yi · Jiajun Wu · Chuang Gan · Antonio Torralba · Pushmeet Kohli · Josh Tenenbaum

**Extracting Relationships by Multi-Domain Matching**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #22  
Poster – In Tue Poster Session B  
Yitong Li · michael Murias · geraldine Dawson · David Carlson

**Sparse Attentive Backtracking: Temporal Credit Assignment Through Reminding**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #23  
Poster – In Tue Poster Session B  
Nan Rosemary Ke · Anirudh Goyal ALIAS PARTH GOYAL · Olexa Bilaniuk · Jonathan Binas · Michael Mozer · Chris Pal · Yoshua Bengio

**Beauty-in-averageness and its contextual modulations: A Bayesian statistical account**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #24  
Poster – In Tue Poster Session B  
Chaitanya Ryali · Angela J Yu

**Stimulus domain transfer in recurrent models for large scale cortical population prediction on video**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #25  
Poster – In Tue Poster Session B  
Fabian Sinz · Alexander Ecker · Paul Fahey · Edgar Walker · Er-ick Cobos · Emmanouil Froudarakis · Dimitri Yatsenko · Zachary Pitkow · Jacob Reimer · Andreas Tolias

**A probabilistic population code based on neural samples**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #26  
Poster – In Tue Poster Session B  
Sabyasachi Shivkumar · Richard Lange · Ankani Chattoraj · Ralf Haefner

**cpSGD: Communication-efficient and differentially-private distributed SGD**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #27  
Poster – In Tue Poster Session B  
Naman Agarwal · Ananda Theertha Suresh · Felix Xinnan Yu · Sanjiv Kumar · Brendan McMahan

**Bounded-Loss Private Prediction Markets**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #28  
Poster – In Tue Poster Session B  
Rafael Frongillo · Bo Waggoner

**Ex ante coordination and collusion in zero-sum multi-player extensive-form games**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #29  
Poster – In Tue Poster Session B  
Gabriele Farina · Andrea Celli · Nicola Gatti · Tuomas Sandholm

**Model-Agnostic Private Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #30  
Poster – In Tue Poster Session B  
Raef Bassily · Abhradeep Guha Thakurta · Om Dipakbhai Thakkar

**Adversarially Robust Generalization Requires More Data**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #31  
Poster – In Tue Poster Session B  
Ludwig Schmidt · Shibani Santurkar · Dimitris Tsipras · Kunal Talwar · Aleksander Madry

Bayesian Pose Graph Optimization via Bingham Distributions and Tempered Geodesic MCMC

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #32  
Poster – In Tue Poster Session B  
Tolga Birdal · Umut Simsekli · Mustafa Onur Eken · Slobodan Ilic

A Statistical Recurrent Model on the Manifold of Symmetric Positive Definite Matrices

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #33  
Poster – In Tue Poster Session B  
Rudrasis Chakraborty · Chun-Hao Yang · Xingjian Zhen · Monami Banerjee · Derek Archer · David Vaillancourt · Vikas Singh · Baba Vemuri

Designing by Training: Acceleration Neural Network for Fast High-Dimensional Convolution

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #34  
Poster – In Tue Poster Session B  
Longquan Dai · Liang Tang · Yuan Xie · Jinhui Tang

Greedy Hash: Towards Fast Optimization for Accurate Hash Coding in CNN

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #35  
Poster – In Tue Poster Session B  
Shupeng Su · Chao Zhang · Kai Han · Yonghong Tian

Generative Probabilistic Novelty Detection with Adversarial Autoencoders

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #36  
Poster – In Tue Poster Session B  
Stanislav Pidhorskyi · Ranya Almohsen · Gianfranco Doretto

Joint Sub-bands Learning with Clique Structures for Wavelet Domain Super-Resolution

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #37  
Poster – In Tue Poster Session B  
Zhisheng Zhong · Tiancheng Shen · Yibo Yang · Zhouchen Lin · Chao Zhang

Compact Generalized Non-local Network

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #38  
Poster – In Tue Poster Session B  
Kaiyu Yue · Ming Sun · Yuchen Yuan · Feng Zhou · Errui Ding · Fuxin Xu

BinGAN: Learning Compact Binary Descriptors with a Regularized GAN

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #39  
Poster – In Tue Poster Session B  
Maciej Zieba · Piotr Semberecki · Tarek El-Gaaly · Tomasz Trzcinski

RenderNet: A deep convolutional network for differentiable rendering from 3D shapes

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #40  
Poster – In Tue Poster Session B  
Thu H Nguyen-Phuoc · Chuan Li · Stephen Balaban · Yongliang Yang

LF-Net: Learning Local Features from Images

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #41  
Poster – In Tue Poster Session B  
Yuki Ono · Eduard Trulls · Pascal Fua · Kwang Moo Yi

Unsupervised Learning of Shape and Pose with Differentiable Point Clouds

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #42  
Poster – In Tue Poster Session B  
Eldar Insafutdinov · Alexey Dosovitskiy

Modelling and unsupervised learning of symmetric deformable object categories

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #43  
Poster – In Tue Poster Session B  
James Thewlis · Hakan Bilen · Andrea Vedaldi

Multi-View Silhouette and Depth Decomposition for High Resolution 3D Object Representation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #44  
Poster – In Tue Poster Session B  
Edward Smith · Scott Fujimoto · David Meger

Image Inpainting via Generative Multi-column Convolutional Neural Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #45  
Poster – In Tue Poster Session B  
Yi Wang · Xin Tao · Xiaojuan Qi · Xiaoyong Shen · Jiaya Jia

Beyond Grids: Learning Graph Representations for Visual Recognition

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #46  
Poster – In Tue Poster Session B  
Yin Li · Abhinav Gupta

Foreground Clustering for Joint Segmentation and Localization in Videos and Images

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #47  
Poster – In Tue Poster Session B  
Abhishek Sharma

LinkNet: Relational Embedding for Scene Graph

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #48  
Poster – In Tue Poster Session B  
Sanghyun Woo · Dahun Kim · Donghyeon Cho · In So Kweon

Context-aware Synthesis and Placement of Object Instances

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #49  
Poster – In Tue Poster Session B  
Donghoon Lee · Ming-Yu Liu · Ming-Hsuan Yang · Sifei Liu · Jinwei Gu · Jan Kautz

Geometry-Aware Recurrent Neural Networks for Active Visual Recognition

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #50  
Poster – In Tue Poster Session B  
Ricson Cheng · Ziyang Wang · Katerina Fragkiadaki

See and Think: Disentangling Semantic Scene Completion

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #51  
Poster – In Tue Poster Session B  
Shice Liu · YU HU · Yiming Zeng · Qiankun Tang · Beibei Jin · Yinhe Han · Xiaowei Li

Active Matting

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #52  
Poster – In Tue Poster Session B  
Xin Yang · Ke Xu · Shaozhe Chen · Shengfeng He · Baocai Yin Yin · Rynson Lau

A Unified Feature Disentangler for Multi-Domain Image Translation and Manipulation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #53  
Poster – In Tue Poster Session B  
Alexander H. Liu · Yen-Cheng Liu · Yu-Ying Yeh · Yu-Chiang Frank Wang

Turbo Learning for CaptionBot and DrawingBot

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #54  
Poster – In Tue Poster Session B  
Qiuyuan Huang · Pengchuan Zhang · Dapeng Wu · Lei Zhang

#### Dialog-based Interactive Image Retrieval

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #55  
Poster – In Tue Poster Session B  
Xiaoxiao Guo · Hui Wu · Yu Cheng · Steven Rennie · Gerald Tesauro · Rogerio Feris

#### Hybrid Retrieval-Generation Reinforced Agent for Medical Image Report Generation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #56  
Poster – In Tue Poster Session B  
Yuan Li · Xiaodan Liang · Zhiting Hu · Eric Xing

#### Sequential Context Encoding for Duplicate Removal

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #57  
Poster – In Tue Poster Session B  
Lu Qi · Shu Liu · Jianping Shi · Jiaya Jia

#### Hybrid Knowledge Routed Modules for Large-scale Object Detection

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #58  
Poster – In Tue Poster Session B  
ChenHan Jiang · Hang Xu · Xiaodan Liang · Liang Lin

#### SNIPER: Efficient Multi-Scale Training

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #59  
Poster – In Tue Poster Session B  
Bharat Singh · Mahyar Najibi · Larry Davis

#### Revisiting Multi-Task Learning with ROCK: a Deep Residual Auxiliary Block for Visual Detection

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #60  
Poster – In Tue Poster Session B  
Taylor Mordan · Nicolas THOME · Gilles Henaff · Matthieu Cord

#### MetaAnchor: Learning to Detect Objects with Customized Anchors

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #61  
Poster – In Tue Poster Session B  
Tong Yang · Xiangyu Zhang · Zeming Li · Wenqiang Zhang · Jian Sun

#### Learning Hierarchical Semantic Image Manipulation through Structured Representations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB  
Poster – In Tue Poster Session B  
Seunghoon Hong · Xinchun Yan · Thomas Huang · Honglak Lee

#### Cooperative Holistic Scene Understanding: Unifying 3D Object, Layout, and Camera Pose Estimation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #63  
Poster – In Tue Poster Session B  
Siyuan Huang · Siyuan Qi · Yinxue Xiao · Yixin Zhu · Ying Nian Wu · Song-Chun Zhu

#### 3D-Aware Scene Manipulation via Inverse Graphics

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #64  
Poster – In Tue Poster Session B  
Shunyu Yao · Tzu Ming Hsu · Jun-Yan Zhu · Jiajun Wu · Antonio Torralba · Bill Freeman · Josh Tenenbaum

#### FD-GAN: Pose-guided Feature Distilling GAN for Robust Person Re-identification

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #65  
Poster – In Tue Poster Session B  
Yixiao Ge · Zhuowan Li · Haiyu Zhao · Guojun Yin · Shuai Yi · Xiaogang Wang · hongsheng Li

#### Sequence-to-Segment Networks for Segment Detection

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #66  
Poster – In Tue Poster Session B  
Zijun Wei · Boyu Wang · Minh Hoai Nguyen · Jianming Zhang · Zhe Lin · Xiaohui Shen · Radomir Mech · Dimitris Samaras

#### Stacked Semantics-Guided Attention Model for Fine-Grained Zero-Shot Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #67  
Poster – In Tue Poster Session B  
yunlong yu · Zhong Ji · Yanwei Fu · Jichang Guo · Yanwei Pang · Zhongfei (Mark) Zhang

#### DeepExposure: Learning to Expose Photos with Asynchronously Reinforced Adversarial Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #68  
Poster – In Tue Poster Session B  
Runsheng Yu · Wenyu Liu · Yansen Zhang · Zhi Qu · Deli Zhao · Bo Zhang

#### Self-Erasing Network for Integral Object Attention

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #69  
Poster – In Tue Poster Session B  
Qibin Hou · PengTao Jiang · Yunchao Wei · Ming-Ming Cheng

#### Searching for Efficient Multi-Scale Architectures for Dense Image Prediction

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #70  
Poster – In Tue Poster Session B  
Maxwell Collins · Maxwell Collins · Yukun Zhu · George Papandreou · Barret Zoph · Florian Schroff · Bo Chen · Jon Shlens

#### DifNet: Semantic Segmentation by Diffusion Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #71  
Poster – In Tue Poster Session B  
Peng Jiang · Fanglin Gu · Yunhai Wang · Changhe Tu · Baoquan Chen

#### Learning a High Fidelity Pose Invariant Model for High-resolution Face Frontalization

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #72  
Poster – In Tue Poster Session B  
Jie Cao · Yibo Hu · Hongwen Zhang · Ran He · Zhenan Sun

#### Attention in Convolutional LSTM for Gesture Recognition

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #73  
Poster – In Tue Poster Session B  
Liang Zhang · Guangming Zhu · Lin Mei · Peiyi Shen · Syed Afaq Ali Shah · Mohammed Bennis

#### Partially-Supervised Image Captioning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #74  
Poster – In Tue Poster Session B  
Peter Anderson · Stephen Gould · Mark Johnson

#### Learning to Specialize with Knowledge Distillation for Visual Question Answering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #75  
Poster – In Tue Poster Session B  
Jonghwan Mun · Kimin Lee · Jinwoo Shin · Bohyung Han

#### Chain of Reasoning for Visual Question Answering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #76  
Poster – In Tue Poster Session B  
Chenfei Wu · Jinlai Liu · Xiaojie Wang · Xuan Dong

#### Learning Conditioned Graph Structures for Interpretable Visual Question Answering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #77  
Poster – In Tue Poster Session B  
Will Norcliffe-Brown · Stathis Vafeias · Sarah Parisot

**Out of the Box: Reasoning with Graph Convolution Nets for Factual Visual Question Answering**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #78  
Poster – In Tue Poster Session B  
Medhini Narasimhan · Svetlana Lazebnik · Alexander Schwing

**Overcoming Language Priors in Visual Question Answering with Adversarial Regularization**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #79  
Poster – In Tue Poster Session B  
Sainandan Ramakrishnan · Aishwarya Agrawal · Stefan Lee

**Non-Local Recurrent Network for Image Restoration**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #80  
Poster – In Tue Poster Session B  
Ding Liu · Bihan Wen · Yuchen Fan · Chen Change Loy · Thomas Huang

**Neural Nearest Neighbors Networks**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #81  
Poster – In Tue Poster Session B  
Tobias Pfister · Stefan Roth

**Training deep learning based denoisers without ground truth data**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #82  
Poster – In Tue Poster Session B  
Shakir Soltanayev · Se Young Chun

**Adversarial Regularizers in Inverse Problems**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #83  
Poster – In Tue Poster Session B  
Sebastian Lunz · Carola Schoenlieb · Ozan Oktay

**Densely Connected Attention Propagation for Reading Comprehension**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #84  
Poster – In Tue Poster Session B  
Yi Tay · Anh Tuan Luu · Siu Cheung Hui · Jian Su

**Layer-Wise Coordination between Encoder and Decoder for Neural Machine Translation**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #85  
Poster – In Tue Poster Session B  
Tianyu He · Xu Tan · Yingce Xia · Di He · Tao Qin · Zhibo Chen · Tie-Yan Liu

**e-SNLI: Natural Language Inference with Natural Language Explanations**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #86  
Poster – In Tue Poster Session B  
Oana-Maria Camburu · Tim Rocktschel · Thomas Lukasiewicz · Phil Blunsom

**The challenge of realistic music generation: modelling raw audio at scale**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #87  
Poster – In Tue Poster Session B  
Sander Dieleman · Aaron van den Oord · Karen Simonyan

**Fully Neural Network Based Speech Recognition on Mobile and Embedded Devices**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #88  
Poster – In Tue Poster Session B  
Jinhwan Park · Yoonho Boo · Iksoo Choi · Sungho Shin · Wonyong Sung

**Transfer Learning from Speaker Verification to Multispeaker Text-To-Speech Synthesis**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #89

Poster – In Tue Poster Session B  
Ye Jia · Yu Zhang · Ron Weiss · Quan Wang · Jonathan Shen · Fei Ren · Zhifeng Chen · Patrick Nguyen · Ruoming Pang · Ignacio Lopez Moreno · Yonghui Wu

**SING: Symbol-to-Instrument Neural Generator**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #90  
Poster – In Tue Poster Session B  
Alexandre Defossez · Neil Zeghidour · Nicolas Usunier · Leon Bottou · Francis Bach

**Neural Voice Cloning with a Few Samples**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #91  
Poster – In Tue Poster Session B  
Sercan Arik · Jitong Chen · Kainan Peng · Wei Ping · Yanqi Zhou

**GroupReduce: Block-Wise Low-Rank Approximation for Neural Language Model Shrinking**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #92  
Poster – In Tue Poster Session B  
Patrick Chen · Si Si · Yang Li · Ciprian Chelba · Cho-Jui Hsieh

**Dialog-to-Action: Conversational Question Answering Over a Large-Scale Knowledge Base**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #93  
Poster – In Tue Poster Session B  
Daya Guo · Duyu Tang · Nan Duan · Ming Zhou · Jian Yin

**Generating Informative and Diverse Conversational Responses via Adversarial Information Maximization**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #94  
Poster – In Tue Poster Session B  
Yizhe Zhang · Michel Galley · Jianfeng Gao · Zhe Gan · Xiumun Li · Chris Brockett · Bill Dolan

**Answerer in Questioner's Mind: Information Theoretic Approach to Goal-Oriented Visual Dialog**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #95  
Poster – In Tue Poster Session B  
Sang-Woo Lee · Yu-Jung Heo · Byoung-Tak Zhang

**Trajectory Convolution for Action Recognition**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #96  
Poster – In Tue Poster Session B  
Yue Zhao · Guneet Singh Dhillon · Dahua Lin

**Video Prediction via Selective Sampling**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #97  
Poster – In Tue Poster Session B  
Jingwei Xu · Bingbing Ni · Xiaokang Yang

**Unsupervised Learning of Artistic Styles with Archetypal Style Analysis**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #98  
Poster – In Tue Poster Session B  
Daan Wuyten · Cordelia Schmid · Julien Mairal

**Attacks Meet Interpretability: Attribute-steered Detection of Adversarial Samples**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #99  
Poster – In Tue Poster Session B  
Guanhong Tao · Shiqing Ma · Yingqi Liu · Xiangyu Zhang

**Speaker-Follower Models for Vision-and-Language Navigation**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #100  
Poster – In Tue Poster Session B  
Daniel Fried · Ronghang Hu · Volkan Cirik · Anna Rohrbach · Jacob Andreas · Louis-Philippe Morency · Taylor Berg-Kirkpatrick · Kate Saenko · Dan Klein · Trevor Darrell

**Neural Code Comprehension: A Learnable Representation of Code Semantics**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #101  
Poster – In Tue Poster Session B  
Tal Ben-Nun · Alice Shoshana Jakobovits · Torsten Hoefer

**MiME: Multilevel Medical Embedding of Electronic Health Records for Predictive Healthcare**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #102  
Poster – In Tue Poster Session B  
Edward Choi · Cao Xiao · Walter Stewart · Jimeng Sun

**Distilled Wasserstein Learning for Word Embedding and Topic Modeling**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #103  
Poster – In Tue Poster Session B  
Hongteng Xu · Wenlin Wang · Wei Liu · Lawrence Carin

**Learning to Optimize Tensor Programs**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #104  
Poster – In Tue Poster Session B  
Tianqi Chen · Lianmin Zheng · Eddie Yan · Ziheng Jiang · Thierry Moreau · Luis Ceze · Carlos Guestrin · Arvind Krishnamurthy

**Learning to Solve SMT Formulas**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #105  
Poster – In Tue Poster Session B  
Mislav Balunovic · Pavol Bielak · Martin Vechev

**Data center cooling using model-predictive control**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #106  
Poster – In Tue Poster Session B  
Nevena Lazic · Craig Boutilier · Tyler Lu · Eehern Wong · Binz Roy · MK Ryu · Greg Imwalle

**Bayesian Inference of Temporal Task Specifications from Demonstrations**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #107  
Poster – In Tue Poster Session B  
Ankit Shah · Pritish Kamath · Julie A Shah · Shen Li

**Training Deep Neural Networks with 8-bit Floating Point Numbers**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #108  
Poster – In Tue Poster Session B  
Naigang Wang · Jungwook Choi · Daniel Brand · Chia-Yu Chen · Kailash Gopalakrishnan

**Snap ML: A Hierarchical Framework for Machine Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #109  
Poster – In Tue Poster Session B  
Celestine D'Ánner · Thomas Parnell · Dimitrios Sarigiannis · Nikolas Ioannou · Andreea Anghel · Gummadi Ravi · Madhusudan Kanadasamy · Haralampos Pozidis

**Learning filter widths of spectral decompositions with wavelets**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #110  
Poster – In Tue Poster Session B  
Haidar Khan · Bulent Yener

**A Likelihood-Free Inference Framework for Population Genetic Data using Exchangeable Neural Networks**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #111  
Poster – In Tue Poster Session B  
Jeffrey Chan · Valerio Perrone · Jeffrey Spence · Paul Jenkins · Sara Mathieson · Yun Song

**Latent Gaussian Activity Propagation: Using Smoothness and Structure to Separate and Localize Sounds in Large Noisy Environments**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #112  
Poster – In Tue Poster Session B  
Daniel Johnson · Daniel Gorelik · Ross E Mawhorter · Kyle Suver · Weiqing Gu · Steven Xing · Cody Gabriel · Peter Sankhagowit

**Inferring Latent Velocities from Weather Radar Data using Gaussian Processes**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #113  
Poster – In Tue Poster Session B  
Rico Angell · Daniel Sheldon

**Bayesian Nonparametric Spectral Estimation**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #114  
Poster – In Tue Poster Session B  
Felipe Tobar

**Learning a Warping Distance from Unlabeled Time Series Using Sequence Autoencoders**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #115  
Poster – In Tue Poster Session B  
Abubakar Abid · James Zou

**Precision and Recall for Time Series**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #116  
Poster – In Tue Poster Session B  
Nesime Tatbul · Tae Jun Lee · Stan Zdonik · Mejbah Alam · Justin Gottschlich

**Deep Generative Markov State Models**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #117  
Poster – In Tue Poster Session B  
Hao Wu · Andreas Mardt · Luca Pasquali · Frank Noe

**Doubly Robust Bayesian Inference for Non-Stationary Streaming Data with  $\beta$ -Divergences**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #118  
Poster – In Tue Poster Session B  
Jeremias Knoblauch · Jack E Jewson · Theodoros Damoulas

**Regularization Learning Networks: Deep Learning for Tabular Datasets**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #119  
Poster – In Tue Poster Session B  
Ira Shavitt · Eran Segal

**Generative modeling for protein structures**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #120  
Poster – In Tue Poster Session B  
Namrata Anand · Possu Huang

**Geometry Based Data Generation**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #121  
Poster – In Tue Poster Session B  
Ofir Lindenbaum · Jay Stanley · Guy Wolf · Smita Krishnaswamy

**Learning Concave Conditional Likelihood Models for Improved Analysis of Tandem Mass Spectra**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #122  
Poster – In Tue Poster Session B  
John T Halloran · David M Rocke

**Generalizing Tree Probability Estimation via Bayesian Networks**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #123  
Poster – In Tue Poster Session B  
Cheng Zhang · Frederick A Matsen IV

**Learning Temporal Point Processes via Reinforcement Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #124  
Poster – In Tue Poster Session B  
Shuang Li · Shuai Xiao · Shixiang Zhu · Nan Du · Yao Xie · Le Song

**Exponentially Weighted Imitation Learning for Batched Historical Data**



Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #125  
Poster – In Tue Poster Session B  
Qing Wang · Jiechao Xiong · Lei Han · peng sun · Han Liu · Tong Zhang

#### Evidential Deep Learning to Quantify Classification Uncertainty

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #126  
Poster – In Tue Poster Session B  
Murat Sensoy · Lance Kaplan · Melih Kandemir

#### Explanations based on the Missing: Towards Contrastive Explanations with Pertinent Negatives

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #127  
Poster – In Tue Poster Session B  
Amit Dhurandhar · Pin-Yu Chen · Ronny Luss · Chun-Chen Tu · Paishun Ting · Karthikeyan Shanmugam · Payel Das

#### Towards Robust Interpretability with Self-Explaining Neural Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #128  
Poster – In Tue Poster Session B  
David Alvarez Melis · Tommi Jaakkola

#### Model Agnostic Supervised Local Explanations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #129  
Poster – In Tue Poster Session B  
Gregory Plumb · Denali Molitor · Ameet Talwalkar

#### To Trust Or Not To Trust A Classifier

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #130  
Poster – In Tue Poster Session B  
Heinrich Jiang · Been Kim · Melody Guan · Maya Gupta

#### Predict Responsibly: Improving Fairness and Accuracy by Learning to Defer

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #131  
Poster – In Tue Poster Session B  
David Madras · Toni Pitassi · Richard Zemel

#### Hunting for Discriminatory Proxies in Linear Regression Models

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #132  
Poster – In Tue Poster Session B  
Samuel Yeom · Anupam Datta · Matt Fredrikson

#### Empirical Risk Minimization Under Fairness Constraints

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #133  
Poster – In Tue Poster Session B  
Michele Donini · Luca Oneto · Shai Ben-David · John Shawe-Taylor · Massimiliano Pontil

#### Approximation algorithms for stochastic clustering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #134  
Poster – In Tue Poster Session B  
David Harris · Shi Li · Aravind Srinivasan · Khoa Trinh · Thomas Pensyl

#### Re-evaluating evaluation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #135  
Poster – In Tue Poster Session B  
David Balduzzi · Karl Tuyls · Julien Perolat · Thore Graepel

#### Does mitigating ML's impact disparity require treatment disparity?

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #136  
Poster – In Tue Poster Session B  
Zachary Lipton · Julian McAuley · Alexandra Chouldechova

#### Enhancing the Accuracy and Fairness of Human Decision Making

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #137  
Poster – In Tue Poster Session B  
Isabel Valera · Adish Singla · Manuel Gomez Rodriguez

#### The Price of Fair PCA: One Extra dimension

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #138  
Poster – In Tue Poster Session B  
Samira Samadi · Uthaipon Tantipongpipat · Jamie Morgenstern · Mohit Singh · Santosh Vempala

#### Practical Methods for Graph Two-Sample Testing

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #139  
Poster – In Tue Poster Session B  
Debarghya Ghoshdastidar · Ulrike von Luxburg

#### Topkapi: Parallel and Fast Sketches for Finding Top-K Frequent Elements

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #140  
Poster – In Tue Poster Session B  
Ankush Mandal · He Jiang · Anshumali Shrivastava · Vivek Sarkar

#### KDGAN: Knowledge Distillation with Generative Adversarial Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #141  
Poster – In Tue Poster Session B  
Xiaojie Wang · Rui Zhang · Yu Sun · Jianzhong Qi

#### Modeling Dynamic Missingness of Implicit Feedback for Recommendation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #142  
Poster – In Tue Poster Session B  
Menghan Wang · Mingming Gong · Xiaolin Zheng · Kun Zhang

#### Gamma-Poisson Dynamic Matrix Factorization Embedded with Metadata Influence

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #143  
Poster – In Tue Poster Session B  
Trong Dinh Thac Do · Longbing Cao

#### Non-metric Similarity Graphs for Maximum Inner Product Search

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #144  
Poster – In Tue Poster Session B  
Stanislav Morozov · Artem Babenko

#### Norm-Ranging LSH for Maximum Inner Product Search

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #145  
Poster – In Tue Poster Session B  
Xiao Yan · Jinfeng Li · Xinyan Dai · Hongzhi Chen · James Cheng

#### A Dual Framework for Low-rank Tensor Completion

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #146  
Poster – In Tue Poster Session B  
Madhav Nimishakavi · Pratik Kumar Jawanpuria · Bamdev Mishra

#### Low-Rank Tucker Decomposition of Large Tensors Using TensorSketch

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #147  
Poster – In Tue Poster Session B  
Osman Asif Malik · Stephen Becker

#### Dropping Symmetry for Fast Symmetric Nonnegative Matrix Factorization

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #148  
Poster – In Tue Poster Session B  
Zhihui Zhu · Xiao Li · Kai Liu · Qiuwei Li

#### Semidefinite relaxations for certifying robustness to adversarial examples

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #149  
Poster – In Tue Poster Session B  
Aditi Raghunathan · Jacob Steinhardt · Percy Liang

**Privacy Amplification by Subsampling: Tight Analyses via Couplings and Divergences**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #150  
 Poster – In Tue Poster Session B  
 Borja Balle · Gilles Barthe · Marco Gaboardi

**Differentially Private Testing of Identity and Closeness of Discrete Distributions**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #151  
 Poster – In Tue Poster Session B  
 Jayadev Acharya · Ziteng Sun · Huanyu Zhang

**Differentially Private k-Means with Constant Multiplicative Error**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #152  
 Poster – In Tue Poster Session B  
 Uri Stemmer · Haim Kaplan

**Local Differential Privacy for Evolving Data**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #153  
 Poster – In Tue Poster Session B  
 Matthew Joseph · Aaron Roth · Jonathan Ullman · Bo Waggoner

**Adversarial Attacks on Stochastic Bandits**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #154  
 Poster – In Tue Poster Session B  
 Kwang-Sung Jun · Lihong Li · Yuzhe Ma · Jerry Zhu

**Distributed Learning without Distress: Privacy-Preserving Empirical Risk Minimization**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #155  
 Poster – In Tue Poster Session B  
 Bargav Jayaraman · Lingxiao Wang · David Evans · Quanquan Gu

**A Spectral View of Adversarially Robust Features**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #156  
 Poster – In Tue Poster Session B  
 Shivam Garg · Vatsal Sharan · Brian Zhang · Gregory Valiant

**Efficient Formal Safety Analysis of Neural Networks**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #157  
 Poster – In Tue Poster Session B  
 Shiqi Wang · Kexin Pei · Justin Whitehouse · Junfeng Yang · Suman Jana

**Contamination Attacks and Mitigation in Multi-Party Machine Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #158  
 Poster – In Tue Poster Session B  
 Jamie Hayes · Olga Ohrimenko

**Explaining Deep Learning Models -- A Bayesian Non-parametric Approach**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #159  
 Poster – In Tue Poster Session B  
 Wenbo Guo · Sui Huang · Yunzhe Tao · Xinyu Xing · Lin Lin

**Data-Driven Clustering via Parameterized Lloyd’s Families**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #160  
 Poster – In Tue Poster Session B  
 Maria-Florina Balcan · Travis Dick · Colin White

**Manifold Structured Prediction**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #161  
 Poster – In Tue Poster Session B  
 Alessandro Rudi · Carlo Ciliberto · GianMaria Marconi · Lorenzo Rosasco

**Loss Surfaces, Mode Connectivity, and Fast Ensembling of DNNs**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #162  
 Poster – In Tue Poster Session B  
 Timur Garipov · Pavel Izmailov · Dmitrii Podoprikin · Dmitry Vetrov · Andrew Wilson

**Masking: A New Perspective of Noisy Supervision**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #163  
 Poster – In Tue Poster Session B  
 Bo Han · Jiangchao Yao · Gang Niu · Mingyuan Zhou · Ivor Tsang · Ya Zhang · Masashi Sugiyama

**Supervising Unsupervised Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #164  
 Poster – In Tue Poster Session B  
 Vikas Garg · Adam Kalai

**One-Shot Unsupervised Cross Domain Translation**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #165  
 Poster – In Tue Poster Session B  
 Sagie Benaim · Lior Wolf

**Neural Architecture Search with Bayesian Optimisation and Optimal Transport**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #166  
 Poster – In Tue Poster Session B  
 Kirthevasan Kandasamy · Willie Neiswanger · Jeff Schneider · Barnabas Poczos · Eric Xing

**Adapted Deep Embeddings: A Synthesis of Methods for k-Shot Inductive Transfer Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #167  
 Poster – In Tue Poster Session B  
 Tyler Scott · Karl Ridgeway · Michael Mozer

**Completing State Representations using Spectral Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #168  
 Poster – In Tue Poster Session B  
 Nan Jiang · Alex Kulesza · Satinder Singh

**Data-Efficient Hierarchical Reinforcement Learning**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #169  
 Poster – In Tue Poster Session B  
 Ofir Nachum · Shixiang (Shane) Gu · Honglak Lee · Sergey Levine

**The Cluster Description Problem – Complexity Results, Formulations and Approximations**

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #170  
 Poster – In Tue Poster Session B  
 Ian Davidson · Antoine Gourru · S Ravi