

## Wed Dec 5th

### Reproducible, Reusable, and Robust Reinforcement Learning

Wed Dec 5th 08:30 – 09:20 AM @ Rooms 220 CDE  
Invited Talk (Posner Lecture) – In Wed Invited Talk 1  
Joelle Pineau

### Coffee Break

Wed Dec 5th 09:20 – 09:45 AM @  
Break –

## In Wed Track 1 – Session 1

**Wed Dec 5th 09:45 – 09:50 AM @ Room 220 CD – Wed Dec 5th 10:40 – 10:45 AM @ Room 220 CD**

**A Smoothed Analysis of the Greedy Algorithm for the Linear Contextual Bandit Problem**

Wed Dec 5th 09:45 – 09:50 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Sampath Kannan · Jamie Morgenstern · Aaron Roth · Bo Waggoner · Zhiwei Steven Wu  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #159

**Almost Optimal Algorithms for Linear Stochastic Bandits with Heavy-Tailed Payoffs**

Wed Dec 5th 09:50 – 09:55 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Han Shao · Xiaotian Yu · Irwin King · Michael Lyu  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #158

**End-to-End Differentiable Physics for Learning and Control**

Wed Dec 5th 09:55 – 10:00 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Filipe de Avila Belbute-Peres · Kevin Smith · Kelsey Allen · Josh Tenenbaum · J. Zico Kolter  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #38

**Near Optimal Exploration-Exploitation in Non-Communicating Markov Decision Processes**

Wed Dec 5th 10:00 – 10:05 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Ronan Fruit · Matteo Pirota · Alessandro Lazaric  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #161

**Exploration in Structured Reinforcement Learning**

Wed Dec 5th 10:05 – 10:20 AM @ Room 220 CD  
Oral – In Wed Track 1 – Session 1  
Jungseul Ok · Alexandre Proutiere · Damianos Tranos  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #160

**Acceleration through Optimistic No-Regret Dynamics**

Wed Dec 5th 10:20 – 10:25 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Jun-Kun Wang · Jacob Abernethy  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #156

**On Oracle-Efficient PAC RL with Rich Observations**

Wed Dec 5th 10:25 – 10:30 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Christoph Dann · Nan Jiang · Akshay Krishnamurthy · Alekh Agarwal · John Langford · Robert Schapire  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #111

**Constant Regret, Generalized Mixability, and Mirror Descent**

Wed Dec 5th 10:30 – 10:35 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Zakaria Mhammedi · Robert Williamson  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #96

**Efficient Online Portfolio with Logarithmic Regret**

Wed Dec 5th 10:35 – 10:40 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Haipeng Luo · Chen-Yu Wei · Kai Zheng  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #157

**Solving Large Sequential Games with the Excessive Gap Technique**

Wed Dec 5th 10:40 – 10:45 AM @ Room 220 CD  
Spotlight – In Wed Track 1 – Session 1  
Christian Kroer · Gabriele Farina · Tuomas Sandholm  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #77

## In Wed Track 2 – Session 1

**Wed Dec 5th 09:45 – 09:50 AM @ Room 220 E – Wed Dec 5th 10:40 – 10:45 AM @ Room 220 E**

**Deep Network for the Integrated 3D Sensing of Multiple People in Natural Images**

Wed Dec 5th 09:45 – 09:50 AM @ Room 220 E  
Spotlight – In Wed Track 2 – Session 1  
Andrei Zanfir · Elisabeta Marinoiu · Mihai Zanfir · Alin-Ionut Popa · Cristian Sminchisescu  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #120

**Delta-encoder: an effective sample synthesis method for few-shot object recognition**

Wed Dec 5th 09:50 – 09:55 AM @ Room 220 E  
Spotlight – In Wed Track 2 – Session 1  
Eli Schwartz · Leonid Karlinsky · Joseph Shtok · Sivan Harary · Mattias Marder · Abhishek Kumar · Rogerio Feris · Raja Giryes · Alex Bronstein  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #25

**Text-Adaptive Generative Adversarial Networks: Manipulating Images with Natural Language**

Wed Dec 5th 09:55 – 10:00 AM @ Room 220 E  
Spotlight – In Wed Track 2 – Session 1  
Seonghyeon Nam · Yunji Kim · Seon Joo Kim  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #126

**Neighbourhood Consensus Networks**

Wed Dec 5th 10:00 – 10:05 AM @ Room 220 E  
Spotlight – In Wed Track 2 – Session 1  
Ignacio Rocco · Mircea Cimpoi · Relja Arandjelović · Akihiko Torii · Tomas Pajdla · Josef Sivic  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #118

**Visual Memory for Robust Path Following**

Wed Dec 5th 10:05 – 10:20 AM @ Room 220 E  
Oral – In Wed Track 2 – Session 1  
Ashish Kumar · Saurabh Gupta · David Fouhey · Sergey Levine · Jitendra Malik  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #122

**Recurrent Transformer Networks for Semantic Correspondence**

Wed Dec 5th 10:20 – 10:25 AM @ Room 220 E  
Spotlight – In Wed Track 2 – Session 1  
Seungryong Kim · Stephen Lin · SANG RYUL JEON · Dongbo Min · Kwanghoon Sohn  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #119

**Sequential Attend, Infer, Repeat: Generative Modelling of Moving Objects**

Wed Dec 5th 10:25 – 10:30 AM @ Room 220 E  
Spotlight – In Wed Track 2 – Session 1  
Adam Kosiorek · Hyunjik Kim · Yee Whye Teh · Ingmar Posner  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #24

**Sanity Checks for Saliency Maps**

Wed Dec 5th 10:30 – 10:35 AM @ Room 220 E  
Spotlight – In Wed Track 2 – Session 1  
Julius Adebayo · Justin Gilmer · Michael Muelly · Ian Goodfellow · Moritz Hardt · Been Kim  
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #30

**A Probabilistic U-Net for Segmentation of Ambiguous Images**

Wed Dec 5th 10:35 – 10:40 AM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 1  
 Simon Kohl · Bernardino Romera-Paredes · Clemens Meyer · Jeffrey De Fauw · Joseph R. Ledsam · Klaus Maier-Hein · S. M. Ali Eslami · Danilo Jimenez Rezende · Olaf Ronneberger  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #127

**Virtual Class Enhanced Discriminative Embedding Learning**

Wed Dec 5th 10:40 – 10:45 AM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 1  
 Binghui Chen · Weihong Deng · Haifeng Shen  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #130

## In Wed Track 3 – Session 1

**Wed Dec 5th 09:45 – 09:50 AM @ Room 517 CD – Wed Dec 5th 10:40 – 10:45 AM @ Room 517 CD**

Revisiting  $\epsilon$ - $\gamma$ - $\tau$ -similarity learning for domain adaptation

Wed Dec 5th 09:45 – 09:50 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Sofiane Dhoub · Ievgen Redko  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #152

**Leveraged volume sampling for linear regression**

Wed Dec 5th 09:50 – 09:55 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Michal Dereziński · Manfred Warmuth · Daniel Hsu  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #151

**Synthesize Policies for Transfer and Adaptation across Tasks and Environments**

Wed Dec 5th 09:55 – 10:00 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Hexiang Hu · Liyu Chen · Boqing Gong · Fei Sha  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #155

**Sublinear Time Low-Rank Approximation of Distance Matrices**

Wed Dec 5th 10:00 – 10:05 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Ainesh Bakshi · David Woodruff  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #150

**Nearly tight sample complexity bounds for learning mixtures of Gaussians via sample compression schemes**

Wed Dec 5th 10:05 – 10:20 AM @ Room 517 CD  
 Oral – In Wed Track 3 – Session 1  
 Hassan Ashtiani · Shai Ben-David · Nick Harvey · Christopher Liaw · Abbas Mehrabian · Yaniv Plan  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #100

**Minimax Statistical Learning with Wasserstein distances**

Wed Dec 5th 10:20 – 10:25 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Jaeho Lee · Maxim Raginsky  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #86

**Generalization Bounds for Uniformly Stable Algorithms**

Wed Dec 5th 10:25 – 10:30 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Vitaly Feldman · Jan Vondrak  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #85

**A loss framework for calibrated anomaly detection**

Wed Dec 5th 10:30 – 10:35 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Aditya Menon · Robert Williamson  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 517 AB #110

**Sharp Bounds for Generalized Uniformity Testing**

Wed Dec 5th 10:35 – 10:40 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Ilias Diakonikolas · Daniel M. Kane · Alistair Stewart  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #92

**Convex Elicitation of Continuous Properties**

Wed Dec 5th 10:40 – 10:45 AM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 1  
 Jessica Finocchiaro · Rafael Frongillo  
 Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 #73

## In Wed Demonstrations

**Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D10 – Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D9**

Automatic Curriculum Generation Applied to Teaching Novices a Short Bach Piano Segment

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D10  
 Demonstration – In Wed Demonstrations  
 Emma Brunskill · Tong Mu · Karan Goel · Jonathan Bragg

Perception, sensing, motion planning and robot control using AI for automated feeding of upper-extremity mobility impaired people

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D2  
 Demonstration – In Wed Demonstrations  
 Tapomayukh Bhattacharjee · Daniel Gallenberger · David Dubois · Siddhartha Srinivasa · Louis L'écuyer-Lapierre · Ethan Gordon

**RieszNets: Accurate Real-Time 2D/3D Image Super-Resolution**

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D4  
 Demonstration – In Wed Demonstrations  
 Saarthak Sachdeva · Mohnish Chakravarti

PatentAI: IP Infringement Detection with Enhanced Paraphrase Identification

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510  
 Demonstration – In Wed Demonstrations  
 Youssef Drissi · Karthikeyan Natesan Ramamurthy · Prasanna Sattigeri

BigBlueBot: A Demonstration of How to Detect Egregious Conversations with Chatbots

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D1  
 Demonstration – In Wed Demonstrations  
 Casey Dugan · Justin D Weisz · Narendra Nath Joshi · Ingrid Lange · J Johnson · Mohit Jain · Werner Geyer

Autonomous robotic manipulation with a desktop research platform

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D8  
 Demonstration – In Wed Demonstrations  
 Jonathan Long · Brandon Pereira · Max Reynolds · Rahul Rawat

**Multi-Word Imputation and Sentence Expansion**

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D7  
 Demonstration – In Wed Demonstrations  
 Osman Ramadan · Douglas Orr · Dmitry Stratiychuk · B?a?ej Czapp

Deep Reinforcement Learning for Online Order Dispatching and Driver Repositioning in Ride-sharing

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D6  
 Demonstration – In Wed Demonstrations  
 Zhiwei Qin · Xiaocheng Tang · yan jiao · Chenxi Wang

Play Imperfect Information Games against Neural Networks

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D3  
 Demonstration – In Wed Demonstrations  
 Andy C Kitchen · Michela Benedetti · Hon Weng Chong

A Cooperative Visually Grounded Dialogue Game with a Humanoid Robot

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D9  
 Demonstration – In Wed Demonstrations  
 Jordan Prince Tremblay · Ismael Balafrej · Felix Labelle · F?lix Martel-Denis · Eric Matte · Julien Chouinard-Beaupr? · Adam Le-tourneau · Antoine Mercier-Nicol · Simon Brodeur · Fran?ois Ferland · Jean ROUAT

Investigations into the Human-AI Trust Phenomenon

Wed Dec 5th 02:15 – 03:05 PM @ Rooms 220 CDE  
 Invited Talk – In Wed Invited Talk 2  
 Ayanna Howard

Coffee Break

Wed Dec 5th 03:05 – 03:30 PM @  
 Break –

## In Wed Track 1 – Session 2

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 CD – Wed Dec 5th 04:55 – 05:00 PM @ Room 220 CD

Breaking the Curse of Horizon: Infinite-Horizon Off-Policy Estimation

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Qiang Liu · Lihong Li · Ziyang Tang · Dengyong Zhou  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #121

Graph Convolutional Policy Network for Goal-Directed Molecular Graph Generation

Wed Dec 5th 03:35 – 03:40 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Jiaxuan You · Bowen Liu · Zhitao Ying · Vijay Pande · Jure Leskovec  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #140

Memory Augmented Policy Optimization for Program Synthesis and Semantic Parsing

Wed Dec 5th 03:40 – 03:45 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Chen Liang · Mohammad Norouzi · Jonathan Berant · Quoc V Le · Ni Lao  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #137

Meta-Reinforcement Learning of Structured Exploration Strategies

Wed Dec 5th 03:45 – 03:50 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Abhishek Gupta · Russell Mendonca · YuXuan Liu · Pieter Abbeel · Sergey Levine  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #134

Policy Optimization via Importance Sampling

Wed Dec 5th 03:50 – 04:05 PM @ Room 220 CD  
 Oral – In Wed Track 1 – Session 2  
 Alberto Maria Metelli · Matteo Papini · Francesco Faccio · Marcello Restelli  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #109

A Bayesian Approach to Generative Adversarial Imitation Learning

Wed Dec 5th 04:05 – 04:10 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Wonseok Jeon · Seokin Seo · Kee-Eung Kim  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #129

Visual Reinforcement Learning with Imagined Goals

Wed Dec 5th 04:10 – 04:15 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Ashvin Nair · Vitchyr Pong · Murtaza Dalal · Shikhar Bahl · Steven Lin · Sergey Levine  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #141

Randomized Prior Functions for Deep Reinforcement Learning

Wed Dec 5th 04:15 – 04:20 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Ian Osband · John Aslanides · Albin Cassirer  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #154

Playing hard exploration games by watching YouTube

Wed Dec 5th 04:20 – 04:25 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Yusuf Aytar · Tobias Pfaff · David Budden · Thomas Paine · Ziyu Wang · Nando de Freitas  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #142

Recurrent World Models Facilitate Policy Evolution

Wed Dec 5th 04:25 – 04:40 PM @ Room 220 CD  
 Oral – In Wed Track 1 – Session 2  
 David Ha · J?rgen Schmidhuber  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #65

Reducing Network Agnostophobia

Wed Dec 5th 04:40 – 04:45 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Akshay Raj Dhamija · Manuel G?nther · Terrance Boulton  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #100

Life-Long Disentangled Representation Learning with Cross-Domain Latent Homologies

Wed Dec 5th 04:45 – 04:50 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Alessandro Achille · Tom Eccles · Loic Matthey · Chris Burgess · Nicholas Watters · Alexander Lerchner · Irina Higgins  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 517 AB #101

Geometrically Coupled Monte Carlo Sampling

Wed Dec 5th 04:50 – 04:55 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Mark Rowland · Krzysztof Choromanski · Fran?ois Chalus · Aldo Pacchiano · Tamas Sarlos · Richard E Turner · Adrian Weller  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #97

Scalable Laplacian K-modes

Wed Dec 5th 04:55 – 05:00 PM @ Room 220 CD  
 Spotlight – In Wed Track 1 – Session 2  
 Imtiaz Ziko · Eric Granger · Ismail Ben Ayed  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #96

## In Wed Track 2 – Session 2

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 E – Wed Dec 5th 04:55 – 05:00 PM @ Room 220 E

Dynamic Network Model from Partial Observations

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Elahe Ghalebi · Baharan Mirzasoleiman · Radu Grosu · Jure Leskovec  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #7

Stochastic Nonparametric Event-Tensor Decomposition

Wed Dec 5th 03:35 – 03:40 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Shandian Zhe · Yishuai Du  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #12

On GANs and GMMs

Wed Dec 5th 03:40 – 03:45 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Eitan Richardson · Yair Weiss  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #59

**GILBO: One Metric to Measure Them All**

Wed Dec 5th 03:45 – 03:50 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Alexander Alemi · Ian Fischer  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #57

**Isolating Sources of Disentanglement in Variational Autoencoders**

Wed Dec 5th 03:50 – 04:05 PM @ Room 220 E  
 Oral – In Wed Track 2 – Session 2  
 Tian Qi Chen · Xuechen Li · Roger Grosse · David Duvenaud  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #58

**Sparse Covariance Modeling in High Dimensions with Gaussian Processes**

Wed Dec 5th 04:05 – 04:10 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Rui Li · Kishan KC · Feng Cui · Justin Domke · Anne Haake  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #18

**Efficient High Dimensional Bayesian Optimization with Additivity and Quadrature Fourier Features**

Wed Dec 5th 04:10 – 04:15 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Mojmir Mutny · Andreas Krause  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #23

**Regret bounds for meta Bayesian optimization with an unknown Gaussian process prior**

Wed Dec 5th 04:15 – 04:20 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Zi Wang · Beomjoon Kim · Leslie Kaelbling  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #22

**Adversarially Robust Optimization with Gaussian Processes**

Wed Dec 5th 04:20 – 04:25 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Ilija Bogunovic · Jonathan Scarlett · Stefanie Jegelka · Volkan Cevher  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #24

**Approximate Knowledge Compilation by Online Collapsed Importance Sampling**

Wed Dec 5th 04:25 – 04:40 PM @ Room 220 E  
 Oral – In Wed Track 2 – Session 2  
 Tal Friedman · Guy Van den Broeck  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #5

**DAGs with NO TEARS: Continuous Optimization for Structure Learning**

Wed Dec 5th 04:40 – 04:45 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Xun Zheng · Bryon Aragam · Pradeep Ravikumar · Eric Xing  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #9

**Proximal Graphical Event Models**

Wed Dec 5th 04:45 – 04:50 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Debarun Bhattacharjya · Dharmashankar Subramanian · Tian Gao  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #6

**Heterogeneous Multi-output Gaussian Process Prediction**

Wed Dec 5th 04:50 – 04:55 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Pablo Moreno-Muñoz · Antonio Artés · Mauricio Irujo  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #14

**GPpyTorch: Blackbox Matrix-Matrix Gaussian Process Inference with GPU Acceleration**

Wed Dec 5th 04:55 – 05:00 PM @ Room 220 E  
 Spotlight – In Wed Track 2 – Session 2  
 Jacob Gardner · Geoff Pleiss · Kilian Weinberger · David Bindel · Andrew Wilson  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #13

## In Wed Track 3 – Session 2

**Wed Dec 5th 03:30 – 03:35 PM @ Room 517 CD – Wed Dec 5th 04:55 – 05:00 PM @ Room 517 CD**

**The Nearest Neighbor Information Estimator is Adaptively Near Minimax Rate-Optimal**

Wed Dec 5th 03:30 – 03:35 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Jiantao Jiao · Weihao Gao · Yanjun Han  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #86

**Contextual Stochastic Block Models**

Wed Dec 5th 03:35 – 03:40 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Yash Deshpande · Subhabrata Sen · Andrea Montanari · Elchanan Mossel  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #79

**Entropy Rate Estimation for Markov Chains with Large State Space**

Wed Dec 5th 03:40 – 03:45 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Yanjun Han · Jiantao Jiao · Chuan-Zheng Lee · Tsachy Weissman · Yihong Wu · Tiancheng Yu  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #82

**Blind Deconvolutional Phase Retrieval via Convex Programming**

Wed Dec 5th 03:45 – 03:50 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Ali Ahmed · Alireza Aghasi · Paul Hand  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #81

**Stochastic Cubic Regularization for Fast Nonconvex Optimization**

Wed Dec 5th 03:50 – 04:05 PM @ Room 517 CD  
 Oral – In Wed Track 3 – Session 2  
 Nilesh Tripuraneni · Mitchell Stern · Chi Jin · Jeffrey Regier · Michael Jordan  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #42

**Stochastic Nested Variance Reduced Gradient Descent for Nonconvex Optimization**

Wed Dec 5th 04:05 – 04:10 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Dongruo Zhou · Pan Xu · Quanquan Gu  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #44

**On the Local Minima of the Empirical Risk**

Wed Dec 5th 04:10 – 04:15 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Chi Jin · Lydia T. Liu · Rong Ge · Michael Jordan  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #43

**How Much Restricted Isometry is Needed In Nonconvex Matrix Recovery?**

Wed Dec 5th 04:15 – 04:20 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Richard Zhang · Cedric Jozs · Somayeh Sojoudi · Javad Lavaei  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #46

**SPIDER: Near-Optimal Non-Convex Optimization via Stochastic Path-Integrated Differential Estimator**

Wed Dec 5th 04:20 – 04:25 PM @ Room 517 CD  
 Spotlight – In Wed Track 3 – Session 2  
 Cong Fang · Chris Junchi Li · Zhouchen Lin · Tong Zhang  
 Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #49

**Analysis of Krylov Subspace Solutions of Regularized Non-Convex Quadratic Problems**

Wed Dec 5th 04:25 – 04:40 PM @ Room 517 CD  
Oral – In Wed Track 3 – Session 2  
Yair Carmon · John Duchi  
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #48

**Natasha 2: Faster Non-Convex Optimization Than SGD**

Wed Dec 5th 04:40 – 04:45 PM @ Room 517 CD  
Spotlight – In Wed Track 3 – Session 2  
Zeyuan Allen-Zhu  
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #50

**Escaping Saddle Points in Constrained Optimization**

Wed Dec 5th 04:45 – 04:50 PM @ Room 517 CD  
Spotlight – In Wed Track 3 – Session 2

Aryan Mokhtari · Asuman Ozdaglar · Ali Jadbabaie  
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #47

**On Coresets for Logistic Regression**

Wed Dec 5th 04:50 – 04:55 PM @ Room 517 CD  
Spotlight – In Wed Track 3 – Session 2  
Alexander Munteanu · Chris Schwiegelshohn · Christian Sohler · David Woodruff  
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #77

**Legendre Decomposition for Tensors**

Wed Dec 5th 04:55 – 05:00 PM @ Room 517 CD  
Spotlight – In Wed Track 3 – Session 2  
Mahito Sugiyama · Hiroyuki Nakahara · Koji Tsuda  
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 #92