Deep Learning + Reinforcement Learning Summer School

WHERE THE WORLD COMES TO LEARN AI

JULY 8 -17, 2024 | TORONTO, ONTARIO, CANADA

REGISTRATION CLOSED ON APRIL 14, 2024

- **Lectures and networking opportunities with world-class AI researchers**

- **Connect with talented researchers from across the globe and dozens of leading industries**

- **Discover the latest advances in deep learning and reinforcement learning**

AGENDA 2024   SPEAKERS

Monday, July 8, 2024

Registration Opens & Welcome Lunch sponsored by RBC	12:00 PM - 1:30 PM		
Opening Remarks	1:30 PM - 2:00 PM		Graham Taylor Elissa STROME Tony Gaffney

Intro to Neural Networks	2:00 PM - 3:15 PM		Sarath Chandar
Coffee Break sponsored by RBC	3:15 PM - 3:30 PM		
AI for Science	3:30 PM - 4:30 PM		Sara Beery
MILA Social Event	5:00 PM - 8:00 PM	Join us for an afternoon of bowling fun in the city at The Ballroom Bowl (https://www.theballroom.ca/)	

Tuesday, July 9, 2024

Breakfast	8:30 AM - 9:30 AM		
Introduction to RL (part 1)	9:30 AM - 10:30 AM		A. Rupam Mahmood
Coffee Break	10:30 AM - 11:00 AM		
Introduction to RL (part 2)	11:00 AM - 12:00 PM		Kelsey Allen
Lunch sponsored by Roche	12:00 PM - 1:00 PM		
Introduction to NLP	1:00 PM - 2:00 PM		Victor Zhong
Stretch Break	2:00 PM - 2:30 PM		
Graph Neural Networks	2:30 PM - 3:30 PM		Renjie Liao
Coffee Break	3:30 PM - 4:00 PM		

Panel on AI Safety	4:00 PM - 5:00 PM	MC Joshua August Skorburg Panelis: Sheila McIlraith, Roger Grosse, Joanna Redden	Sheila McIlraith Roger Grosse Joanna Redden Gus Skorburg

Wednesday, July 10, 2024

Breakfast	8:30 AM - 9:30 AM		
Generative Vision	9:30 AM - 10:30 AM		David Fleet
Coffee Break	10:30 AM - 11:00 AM		
RL and Games	11:00 AM - 12:00 PM		Marlos C. Machado
Lunch sponsored by OPG and Poster Presentations 1	12:00 PM - 2:00 PM		
Indigenous Cultural Safety Training	2:00 PM - 3:30 PM		
Coffee Break	3:30 PM - 4:00 PM		
Robotics	4:00 PM - 5:00 PM		Florian Shkurti
Career Mixer	5:30 PM - 7:30 PM	Come and network at Mars Discovery District (https://www.marsdd.com/)	

Thursday, July 11, 2024

Breakfast	8:30 AM - 9:30 AM		

Climate change & AI	9:30 AM - 10:30 AM		Sasha Luccioni
Coffee Break	10:30 AM - 11:00 AM		
Language and vision in 3D	11:00 AM - 12:00 PM		Angel Chang
Lunch and Poster Presentations 2	12:00 PM - 2:00 PM		
Optimization	2:00 PM - 3:00 PM		Courtney Paquette
Coffee Break	3:00 PM - 3:30 PM		
Self-Driving Lab	3:30 PM - 4:30 PM		Alan Aspuru-Guzik

Friday, July 12, 2024

Breakfast	8:30 AM - 9:30 AM		
Causality	9:30 AM - 10:30 AM		Rahul Krishnan
Coffee Break	10:30 AM - 11:00 AM		
Economics of AI	11:00 AM - 12:00 PM		Joshua Gans
Lunch and Poster Presentations 3	12:00 PM - 2:00 PM		
Music and AI-Interactive Activity	2:00 PM - 3:30 PM		Pablo Samuel Castro
Coffee Break	3:30 PM - 4:00 PM		

AI Ethics	4:00 PM - 5:00 PM		Regina Rini

Saturday, July 13, 2024

Meet Up	6:00 PM	Meet out front of Vector Office travel to Stadium	
Vector Social (Toronto FC Game) at BMO Field	7:30 PM	Kick Off Toronto FC vs Philadelphia (soccer/football) at the BMO Field (https://www.bmofield.com/)	

Sunday, July 14, 2024

Day for students to explore Toronto			

Monday, July 15, 2024

Breakfast	8:30 AM - 9:30 AM		
AI for Health	9:30 AM - 10:30 AM		Anna Goldenberg
Coffee Break	10:30 AM - 11:00 AM		
Game-theoretic aspects of ML	11:00 AM - 12:00 PM		Nisarg Shah
Vector Tour & Lunch sponsored by TD	12:00 PM - 2:00 PM		
Healthcare AI	2:00 PM - 3:30 PM		Michael Brudno
Coffee Break & Networking	3:30 PM - 4:00 PM		

Tuesday, July 16, 2024

Breakfast	8:00 AM - 9:00 AM		

AI Alignment	9:00 AM - 10:00 AM		David Duvenaud
Coffee Break	10:00 AM - 10:30 AM		
Breakout discussion sessions	10:30 AM - 12:00 PM		
Lunch sponsored by MDA	12:00 PM - 1:00 PM		
Socially Aware NLP	1:00 PM - 2:00 PM		Diyi Yang
Stretch Break	2:00 PM - 2:30 PM		
Prompt Engineering Workshop	2:30 PM - 3:30 PM		David Emerson
Coffee Break & Networking	3:30 PM - 4:00 PM		
CIFAR 20th Anniversary Celebration sponsored by Radical Ventures	5:00 PM - 7:30 PM	Come celebreate with as at MaRS Discovery District (https://www.marsdd.com/)	

Wednesday, July 17, 2024

Breakfast	8:30 AM - 9:30 AM		
Privacy	9:30 AM - 10:30 AM		Xiaoxiao Li
Coffee Break sponsored by Telus	10:30 AM - 11:00 AM		
RL	11:00 AM - 12:00 PM		Audrey Durand

Telus - Closing Remarks & Vector Faculty Mixer Lunch	12:00 PM - 2:00 PM

Time Zone: (UTC-04:00) Eastern Time (US & Canada) [Change Time Zone]

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