

Montréal NeuroAI Workshop Schedule

Venue: Mila Agora, 6650 rue Saint-Urbain

Tuesday, October 9

- 8h30 - 9h00 Coffee and arrival
- 9h00 - 9h30 Welcome and partner remarks
- 9h30 - 10h30 Keynote: Paul Cisek
What might the history of brains tell us about the future of AI?
- 10h30 - 11h00 **Coffee break**
- 11h00 - 11h30 Talk: Tim Lillicrap
TBA
- 11h30 - 12h00 Spotlight Talks
- 12h00 - 14h00 **Lunch break**
- 14h00 - 14h30 Talk: Artur Luczak
Neurons learn by predicting future activity
- 14h30 - 15h00 Talk: Luca Mazzucato
TBA
- 15h00 - 15h30 Talk: Smita Krishnaswamy
TBA
- 15h30 - 16h00 **Coffee Break**
- 16h00 - 16h30 Talk: Kameron Decker-Harris
Functional geometry of biological structure
- 16h30 - 17h00 Talk: Eric Shea-Brown
TBA
- 17h00 - ??? **Welcome reception**

Wednesday, October 11

- 8h30 - 9h00 Coffee and arrival
- 9h00 - 9h30 Talk: Becket Ebitz
The onset of exploration
- 9h30 - 10h00 Talk: Vincent Costa
TBA
- 10h00 - 10h45 **Coffee break**
- 10h45 - 11h15 Talk: Adrienne Fairhall
TBA
- 11h15 - 11h45 Talk: Dhanya Sridhar
TBA
- 11h45 - 12h00 Spotlight Talks
- 12h00 - 14h00 **Lunch break** (and IN-BIC Member Meeting)
- 14h00 - 14h30 Talk: Golnoosh Farnadi
TBA
- 14h30 - 15h00 Talk: Alona Fyshe
TBA
- 15h00 - 15h30 **Coffee Break**

- 15h30 - 16h30 Keynote: Alison Gopnik
*Truth vs. Transmission, Imitation vs. Innovation, Exploration vs. Innovation:
Trade-offs in human and artificial intelligences.*
- 16h30 - 18h30 **Poster session** (food and drinks provided!)

Thursday, October 12

- 8h30 - 9h00 Coffee and arrival
- 9h00 - 9h30 Talk: Eilif Mueller
TBA
- 9h30 - 10h00 Talk: Flavie Lavoie-Cardinal
TBA
- 10h00 - 10h45 **Coffee break**
- 10h45 - 11h15 Talk: Paul Masset
Multi-timescale reinforcement learning in the brain
- 11h15 - 11h45 Talk: SueYeon Chung
TBA
- 11h45 - 12h00 Spotlight Talks
- 12h00 - 14h00 **Lunch break**
- 14h00 - 14h30 Talk: Karim Jerbi
TBA
- 14h30 - 15h00 Talk: Fanny Cazettes
A reservoir of decision variables in the mouse brain
- 15h00 - 15h30 **Coffee Break**
- 15h30 - 16h30 Keynote: Yoshua Bengio
TBA
- 16h30 - 17h30 Panel Discussion: TBA
TBA
- 18h00 - ??? **Informal Social**
Wills Brewery, 6729 Esplanade Ave

Friday, October 13

- 8h30 - 9h00 Coffee and arrival
- 9h00 - 9h30 Talk: Javier Orlandi
Revealing distributed and context-dependent choice information in the mouse cortex
- 9h30 - 10h00 Talk: Lea Duncker
Dynamical mechanisms underlying robust computation in neural populations
- 10h00 - 10h45 **Coffee break**
- 10h45 - 11h15 Talk: Amy Orsborn
*Probing how sensory-motor perturbations influence neural representations and
learning computations*
- 11h15 - 11h45 Talk: Shreya Saxena
TBA
- 11h45 - 12h00 Spotlight Talks
- 12h00 - 14h00 **Lunch break**

14h00 - 14h30	<u>Talk</u> : Eva Dyer <i>TBA</i>
14h30 - 15h00	<u>Talk</u> : Anqi Wu <i>Addressing Challenges in Modeling and Understanding Neural Connectivity with Generalized Linear Models</i>
15h00 - 15h30	Coffee Break
15h30 - 16h15	<u>Keynote</u> : Doina Precup <i>TBA</i>
16h15 - 16h45	<u>Talk</u> : Patrick Mineault <i>TBA</i>
16h45 - 17h00	Closing remarks

	Tuesday October 10	Wednesday October 11	Thursday October 12	Friday October 13	
8:30	Coffee and arrival <i>(posters can be put up)</i>	Coffee and arrival	Coffee and arrival	Coffee and arrival	
8:45					
9:00	Welcome, partner remarks	Talk Becket Ebitz	Talk Eilif Mueller	Talk Javier Orlandi	
9:15					
9:30	Keynote Paul Cisek	Talk Vincent Costa	Talk Flavie Lavoie-Cardinal	Talk Lea Duncker	
9:45					
10:00					
10:15		Coffee break	Coffee break	Coffee break	
10:30	Coffee break				
10:45		Talk Adrienne Fairhall	Talk Paul Masset	Talk Amy Orsborn	
11:00	Talk Tim Lillicrap				
11:15		Talk Dhanya Sridhar	Talk SueYeon Chung	Talk Shreya Saxena	
11:30	Lightning/spotlight talks				
11:45		Lightning/spotlight talks	Lightning/spotlight talks	Lightning/spotlight talks	
12:00	Lunch	Lunch <i>(and IN-BIC Meeting)</i>	Lunch	Lunch	
12:15					
12:30					
12:45					
13:00					
13:15					
13:30					
13:45					
14:00	Talk Artur Luczak	Talk Golnoosh Farnadi	Talk Karim Jerbi	Talk Eva Dyer	
14:15					
14:30	Talk Luca Mazzucato	Talk Alona Fyshe	Talk Fanny Cazes	Talk Anqi Wu	
14:45					
15:00	Talk Smita Krishnaswamy	Coffee break	Coffee break	Coffee break	
15:15					
15:30	Coffee break	Keynote Alison Gopnik	Keynote Yoshua Bengio	Keynote Doina Precup	
15:45					
16:00	Talk Kameron Decker-Harris				
16:15					
16:30	Talk Eric Shea-Brown	Poster session	Panel discussion	Closing remarks	
16:45					
17:00	Welcome reception				
17:15					
17:30					
17:45					
18:00					
18:15					
18:30					
18:45					
19:00			Informal Social <i>Wills Brewery</i> <i>6729 Esplanade Ave</i>		
19:15					
19:30					
19:45					