Fields/VISTA Mathematics of Vision (MoV) Workshop 2019

http://www.fields.utoronto.ca/activities/19-20/vision

Schedule

	Thursday (10/17)	Friday (10/18)
8:00 AM		
8:15 AM		
8:30 AM		
8:45 AM	Registration open	Registration open
9:00 AM	Welcome/Intro.	Welcome/Intro.
9:15 AM	Vignette 1 (9:15-9:45)	Talk 1 (9:15-10:15)
9:30 AM	Zylberberg	Sharpee
9:45 AM	V2 (9:45-10:15)	
10:00 AM	Bergevin	
10:15 AM	V3 (10:15-10:45)	Q&A
10:30 AM	Cheung	Coffee break
10:45 AM	Coffee break	T2 (10:45-11:45)
11:00 AM	V4 (11-11:30)	Young
11:15 AM	Schwartz	
11:30 AM	V5 (11:30-12)	
11:45 AM	Sharpee	Q&A
12:00 PM	V6 (12-12:30)	T3 (12-1)
12:15 PM	Murray	Zemel
12:30 PM	Lunch --> **Breakout #1**	
12:45 PM	(12:30-2)	
1:00 PM		Q&A
1:15 PM		**Lunch** (1:15-2:15)
1:30 PM		
1:45 PM		
2:00 PM	V7 (2-2:30)	
2:15 PM	Young	T4 (2:15-3:15)
2:30 PM	V8 (2:30-3)	Schwartz
2:45 PM	Palmer	
3:00 PM	V9 (3-3:30)	
3:15 PM	Jiang	Q&A
3:30 PM	Coffee break	T5 (3:30-4:30)
3:45 PM	V10 (3:45-4:30)	Palmer
4:00 PM	Urner	
4:15 PM		
4:30 PM	**Breakout #2**	Q&A
4:45 PM	(4:30-5:30)	Coffee break
5:00 PM		
5:15 PM		T6 (5:15-6:15)
5:30 PM		Pouget
5:45 PM	**PreNup reception**	
6:00 PM		
6:15 PM	Note: Art Science Salon	Q&A
6:30 PM	taking place @ Fields	
6:45 PM	on 10/17 (6-8 PM)	
7:00 PM	https://bit.ly/2AH1Pe8	**Dinner** (org. committee +
7:15 PM		invited speakers)
7:30 PM		
7:45 PM		
8:00 PM		

Day 1 "Vignettes"	Speaker
V1 - Vision biology & perception	J Zylberberg
V2 - Biophysical models of neurons	C Bergevin
V3 - Linear systems theory	Gene Cheung
V4 - Image statistics	O Schwartz
V5 - Signal detection in noise	T Sharpee
V6 - Bayesian statistics & perception	R Murray
V7 - Dynamical systems theory	LS Young
V8 - Information Theory	S Palmer
V9 - CNNs	Hui Jiang
V10 - Machine learning	Ruth Urner

Day 2 Talks (tentative ordering)		
T1	Tatyana Sharpee	Quantifying information transmitted by large neural populations
T2	Lai-Sang Young	A biologically constrained, dynamical model of the visual cortex
T3	Richard Zemel	Learning with Few Labels
T4	Odelia Schwartz	Flexible normalization in visual cortex
T5	Stephanie Palmer	Computational and evolutionary constraints on early visual processing
T6	Alex Pouget	The agony of choice

Notes

- Day 1 "Vignettes" are [15-20 min "talk" w/ ~10 min for questions]
- Day 1 Breakout #1: Trainee-centric discussion led by M. Touzel for free-flowing Q&A
- Day 1 Breakout #2: Attendees placed into ~5 groups and team up w/ one invited speaker + one organizer for 1/2 hr, then swap (so folks get a chance to get personal w/ two speakers and ask questions)
- Day 2 talks are 45-60 min, leaving 15-30 min for questions & discussion