camh | Krembil Centre for Neuroinformatics

The Krembil Centre for Neuroinformatics Virtual Open House

Details:
Date: Monday June 21, 2021   Time: 10:00 to 5:00pm
WebEx link - Meeting ID: 161 851 1409 **PW:** KCNI0621   **Gathertown** link (login at 12 noon) - **PW:** KCNI

The Itinerary:
10:00 am – Opening Remarks
- ❖ **Dr. Aristotle Voineskos** - VP, Research, CAMH (confirmed)
- ❖ **Dr. Sean Hill** – Scientific Director, Krembil Centre for Neuroinformatics, CAMH

10:30 am – Computational Genomics
- ❖ **Dr. Shreejoy Tripathy,** Independent Scientist, KCNI
- ❖ Dr. Sonny Chen, Post-Doctoral Fellow. *Understanding cellular diversity in the brain using single-cell transcriptomics*
- ❖ Micaela Consens, Undergraduate Student. *Robust cellular associations with Alzheimer's disease within neuronal subtpyes*
- ❖ Isabel Kerrebijn, M.Sc Student. *Exploring the cellular correlates of changes in cortical thickness*
- ❖ Derek Howard, Research Methods Specialist. *Making intracellular electrophysiology datasets open and accessible*

11:00 am – Brain Circuit Modelling
- ❖ **Dr. Etay Hay,** Independent Scientist, CAMH
- ❖ Frank Mazza, M.Sc Student. *EEG biomarkers of reduced brain microcircuit inhibition in depression*
- ❖ Sana Rosanally, M.Sc Student. *Linking brain microcircuit changes to EEG in Schizophrenia*

11:30 am – Whole Brain Modelling
- ❖ **Dr. John Griffiths,** Independent Scientist, CAMH
- ❖ Dr. Davide Momi, Post-Doc Fellow. *Modelling EEG large-scale brain network dynamics following an external perturbation with single-pulse TMS*
- ❖ Sorenza Bastiaens, Ph.D Student. *Neural mass models of large-scale brain dynamics with a focus on alpha oscillations*
- ❖ S. Hussain Ather, Ph.D Student. *Toward a spectral theory of large scale brain networks*
- ❖ Taha Morshedzadeh, Undergraduate Student. *Modelling brain activity during sleep using neural fields and EEG*

12:00 to 1:00 pm – BREAK
Come chat with the KCNI PIs & trainees in our virtual space via Gathertown (PW: KCNI)

1:05 pm – Cognitive Network Modelling
- ❖ **Dr. Andreea Diaconescu,** Independent Scientist, CAMH
- ❖ Gabrielle Allohverdi & Colleen Charlton, Research Analysts. *Disruption in perceptual learning under ketamine and its relevance for clinical high risk psychosis*
- ❖ Dr. Povilas Karvelis, Post-Doc Fellow. *Neurocomputational modelling of suicidality*

1:35 pm – Whole Person Modelling

- ❖ **Dr. Daniel Felsky,** Independent Scientist, CAMH
- ❖ Dr. Peter Zhukovsky, Post-Doc Fellow. *The similarity of neural signatures of major depressive disorder, anxiety disorders, and stress-related disorders: impact of polygenic risk*
- ❖ Earvin Tio, M.Sc Student . *Testing a polygenic score for microglial activation in three separate cohort studies.*
- ❖ Dr. Mohamed Abdelhack, Post-Doc Fellow. *Big Data in the Wild: Modulation of Artificial Intelligence Model Weights in Real Time*

2:05 pm - Artificial Intelligence and Digital Health

- ❖ **Dr. Abhishek Pratap,** Independent Scientist, CAMH

2:20 pm – BrainHealth Databank

- ❖ **David Rotenberg,** Director, Data Strategy and Business Intelligence, CAMH & Operations Director, KCNI
- ❖ **Dr. Joanna Yu,** BrainHealth Databank Senior Portfolio Manager, CAMH
- ❖ Dr. Marta Maslej, Postdoctoral Fellow, KCNI. *Examining the value of psychiatric notes for clinical prediction and decision support*
- ❖ Dr. Victor Tang, Resident Physician, Clinician Scientist Program – Department of Psychiatry, University of Toronto. *Integrated Care Pathways for Mood and Substance Use Disorders: Collaborative Data Collection Across Diagnoses and Clinical Services*

2:55 pm – KCNI Education & Knowledge Transfer

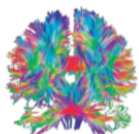- ❖ **Dr. Erin Dickie,** Project Scientist, CAMH

3:05 to 3:25 – BREAK

3:30pm to 4:30pm – Panel Discussion

- ❖ **Topic:** How can digital health data and brain simulations transform mental health care in the near future?
- ❖ **Moderator:** Dr. David Goldbloom
- ❖ **Clinicians:** Drs. Stefan Kloiber, Abigail Ortiz, George Foussias
- ❖ **KCNI Team:** Dr. Sean Hill, David Rotenberg, Drs. Shreejoy Tripathy, Etay Hay, John Griffiths, Andreea Diaconescu, Daniel Felsky, Abhishek Pratap, Joanna Yu, and Erin Dickie

4:35 pm - Closing Remarks

Have more questions? Meet the KCNI PIs & trainees back in our virtual space via Gathertown
(PW: KCNI)

Want to hear more from the Krembil Centre for Neuroinformatics? Subscribe to our mailing list!

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