

# Category Theory for Consciousness Science

Workshop Schedule

Please note that contributed talk length is **25 mins** + questions, invited talk length is **45 mins** + questions.

Saturday, April 15	Sunday, April 16
<b>Coffee, Meet &amp; Greet</b> 8:45 - 9:15	<b>Coffee, Meet &amp; Greet</b> 8:45 - 9:15
Invited Talk 9:15 - 10:10 <b>Bob Coecke</b> Picturing language and cognition	Invited Talk 9:15 - 10:10 <b>Nao Tsuchiya</b> The qualia structure paradigm and the quantum qualia hypothesis
<b>Johannes Kleiner</b> 10:10 - 10:40 Categories for Consciousness Science	<b>Masanao Ozawa</b> 10:10 - 10:40 Quantum instruments in cognitive science: the question order effect and the non-Bayesian belief update
<b>Coffee Break</b> 10:40 - 11:10	<b>Coffee Break</b> 10:40 - 11:00
<b>Sean Tull</b> 11:10 - 11:40 A Categorical Formulation of Predictive Processing	<b>Santiago Hernández</b> 11:00 - 11:30 An algorithmic complexity theory of the human mind
<b>Camilo Miguel Signorelli</b> 11:40 - 12:10 The role of mathematics and process theories in consciousness science	<b>Andrea Sittoni</b> 11:30 - 12:00 A Categorical Model of Husserl's Phenomenology of Temporally Extended Conscious Acts
<b>Short Discussion Session</b> 12:10 - 12:40 <a href="#">sli.do</a> #cats4consc	<b>Short Discussion Session</b> 12:00 - 12:30 <a href="#">sli.do</a> #cats4consc
<b>Lunch Break</b> 12:40 - 14:00	<b>Lunch Break</b> 12:30 - 14:00
Invited Talk 14:00 - 15:00 <b>Andrée Ehresmann</b> MENS, a categorical model for cognition up to phenomenal consciousness	<b>Ted Theodosopoulos</b> 14:00 - 14:30 A categorical bridge between two symmetry-breaking models of neuronal architecture
<b>Robert Prentner</b> 15:00 - 15:30 Applied category theory for the study of the first-person perspective	<b>Grégoire Sergeant-Perthuis and David Rudrauf</b> 14:30 - 15:00 The Projective Consciousness Model: an on-board system for simulating the integrative role of projective geometry in the control of social-affective agents
<b>Coffee Break</b> 15:30 - 16:00	<b>Harny Wang</b> 15:00 - 15:30 Consciousness-only modelled in qufinite ZXW calculus
<b>Toby St Clere Smithe</b> 16:00 - 16:30 The Construction of Shared Worlds	<b>Coffee Break</b> 15:30 - 16:00
<b>Hayato Saigo</b> 16:30 - 17:00 What are States of Consciousness? A category-algebraic viewpoint	Invited Talk 16:00 - 17:00 <b>David Spivak</b> Dynamic Interfaces and Arrangements: An algebraic framework for interacting systems
<b>Long Discussion Session</b> 17:00 - 18:00 <a href="#">sli.do</a> #cats4consc	<b>Long Discussion Session</b> 17:00 - 18:00 <a href="#">sli.do</a> #cats4consc

----- Version v4 -----

14-Apr-2023

Please see [website](#) for updates!

Venue: Room L3 in [Oxford's Mathematical Institute](#)