

Oxford Oscillations Meeting

3-5 September 2017, St Catherine's College, Oxford, UK.

Supported by the James S. McDonnell Foundation

All talks and coffee breaks will take place at St Catherine's College in the Mary Sunley Building. Lunch is served in the College Hall. Departure to dinner on Saturday and Monday will be from the St Catherine's College Porter's Lodge. Wifi access is available through "eduroam" or "TheCloud" (requires free registration).

Saturday 2nd September

Arrival during afternoon/evening

- 19.00 Departure from St Catherine's for dinner
- 19.30 Dinner at *My Sichuan*

Sunday 3rd September

- 9:00 Opening Remarks

9:10 Cognition

9:10 **Beth Buffalo** - Active Sensing and Oscillatory Activity in the Primate Hippocampus

10:00 **Freerk van Ede** - What human alpha and beta oscillations tell us about attentional dynamics in visual working memory

10:50 Coffee

11:20 **Miles Whittington** - Theta/Delta Cross-Frequency Coupling Underlies Semantic Decision Making

12:10 **Discussion** - Chair: Sabine Kastner

- 13:00 Lunch (in hall)

14:30 Methods & Mechanisms

14:30 **Nancy Kopell** - Coordination and Modulation of Brain Rhythms

15:20 Coffee

15:50 Keynote by **Norden Huang** National Central University

Holo-spectral Analysis: From Turbulence to Brain Waves

17:00 **Discussion** - Chair: Ole Jensen

- 17:00 Close

- 19:30 Drinks Reception (Mary Sunley Seminar Room)

- 20:00 Dinner in St. Catherine's Senior Common Room

Monday 4th September

9:10 **Gamma Oscillations**

9:10 **Jess Cardin** - Interneuron Control of Cortical Rhythms

10:00 **John Lisman** - Evidence for a Theta-Gamma Phase Code in Working Memory: Specific Functions of Theta and Gamma Oscillations

10:50 Coffee

11:20 **Vitor Lopez de Santos** - Single-cycle profiling of hippocampal theta oscillations suggest transient network states

11:40 **Marcin Leszczynski** - Dissociation of broadband high-frequency activity and neuronal firing

12:10 **Discussion** - Chair: David Dupret

13:00 Lunch (in hall)

14:30 **Excursion in Oxford**

Either punting from New College or visit to the Pitt Rivers

19:00 Departure from St Catherine's for Cherwell Boathouse

19:30 Dinner at Cherwell Boathouse

Tuesday 5th September

9:30 **Entrainment**

9:30 **Ayelet Landau** - Attentional Sampling: A Human Exploration Mechanism

10:20 **Saskia Haegens** - Rhythmic facilitation of temporal attention.

11:10 Coffee

11:40 **Flavio Fröhlich** - Targeting Brain Oscillations

12:30 **Discussion** - Chair: Charlie Schroeder

13:00 Close

James S. McDonnell Postdoc Meeting

13:00 Lunch (in hall)

14:00 **Meeting**

14:00 **Overview & Catch-up Talks**

15:00 **Theory & Big Picture Discussion**

16:00 Coffee

16:30 **Experimental Discussion**

17:00 **Practical Discussion**

17:30 Close

19:00 JSMF Dinner

Participants in no particular order - (s) indicates a speaker

Kia Nobre	Oxford
Charlie Schroeder	Columbia / NKI
Ole Jensen	Birmingham
Sabine Kastner	Princeton
Bob Knight	Berkeley
Beth Buffalo	U Washington (S)
Jessica Cardin	Yale (S)
Flavio Fröhlich	U North Carolina (S)
Saskia Haegens	Columbia / NYU (S)
Norden Huang	National Central University, Taoyuan (S)
Nancy Kopell	Boston University (S)
Ayelet Landau	Hebrew University Jerusalem (S)
John Lisman	Brandeis (S)
Freek van Ede	Oxford (S)
Miles Whittington	York (S)
Marcin Leszczynski	Columbia (S)
Randolph Helfrich	Berkeley
Janna Lendner	Berkeley
Marlies Vissers	Birmingham
Tjerk Gutteling	Birmingham
Idan Tal	Columbia
Marcin Leszczynski	Columbia
Anne Martin	Princeton
Tim Buschman	Princeton
Chi-Hung Juan	National Central University, Taoyuan
Lauren Atkinson	Oxford
Anna-Katharina Bauer	Oxford
Robert Becker	Oxford
Sage Boettcher	Oxford
Sven Braeutigam	Oxford
Peter Brown	Oxford
Sammi Chekroud	Oxford
David Dupret	Oxford
Simone Heideman	Oxford
Vitor Lopez de Santos	Oxford
Nick Myers	Oxford
Magdalena Nowak	Oxford
Andrew Quinn	Oxford
Eelke Spaak	Oxford
Mark Stokes	Oxford
Diego Vidaurre	Oxford
Catharina Zich	Oxford
Nahid Zokaei	Oxford

Maps of Oxford & St Catherine's College



ST. CATHERINE'S COLLEGE OXFORD

