SLMS Research **C**oordination **O**ffice **Events** portfolio 2021

Symposia

Neuroscience Domain Symposium *[online]*
13.00-16.45 | June 2021

Now in its 12th year, the renowned UCL Neuroscience Symposium is a fantastic opportunity to find out more about the latest neuroscience research at UCL. The symposium was once again held as a half-day online event.

For the first time, we held an online poster and rapid poster presentation session which was attended by 274 people. This showcased research posters from colleagues across the Neuroscience Domain. 50 posters were presented as rapid presentations during the poster session of the symposium. The remaining 61 posters had the option to be displayed online with accompanying video presentations. On the day, the 50 rapid poster presentations were split into 6 virtual rooms in the following themes:

1. Computational Neuroscience and AI
2. Cognition & cognitive dysfunction
3. Disorders of the nervous system: molecular and genetics
4. Disorders of the nervous system: cellular mechanisms
5. Neural circuits and behaviour
6. Sensory motor systems and dysfunction

Each speaker had 20 minutes to present, followed by 5 minutes of Q&A's with the audience. The afternoon keynote speaker had 30 minutes to present, followed by 10 minutes of Q&A.

Keynote Speaker
- Professor Vanessa Ruta, The Rockefeller University

UCL Speakers
- Professor Gareth Barnes, Wellcome Centre for Human Neuroimaging, UCL Queen Square Institute of Neurology
- Professor Caswell Barry, UCL Division of Biosciences
- Dr Sandrine M. Géranton, UCL Division of Biosciences
- Dr Soyon Hong, UK Dementia Research Institute and UCL Queen Square Institute of Neurology

Attendees:
- Nearly 450

NeuroAI Annual Meeting *[online]*
13.00-16.00 | Wednesday 12th May 2021

Academic Lead: Professor Caswell Barry

The last decade has seen phenomenal advances in the field of machine learning (AI). Such is the change that no area of science can afford to ignore it, least of all neuroscience. Crucially, AI shares a common lineage with neuroscience, and provides a means to emulate neural functions and circuits - delivering a normative understanding of the brain and cognition. Equally AI tools provide a means to discover, segment, and track distinct neural and behavioural states - yielding more efficient experiments and accelerating the pace of discovery. In turn, this understanding feeds back into the design of more effective AI architectures and models. Essentially, AI problems posed in neuroscience both require and inspire further advances in AI.

UCL annual NeuroAI event features speakers working across the spectrum of machine learning to neuroscience and aims to foster further collaboration and discussion.

Speakers:

- Professor Alexander Mathis (Ecole Polytechnique Fédérale de Lausanne)
- Professor Claudia Clopath (Imperial College London and Sainsbury Wellcome Centre)

- Professor Daniel Alexander (UCL Computer Science)
- Professor Jennifer Collinger (University of Pittsburgh)

Event programme:

1.00pm – Welcome
1.05pm - 3.20pm – Talks
3.20pm - 3.50pm - Panel discussion
3.50pm - 3.55pm - Closing remarks