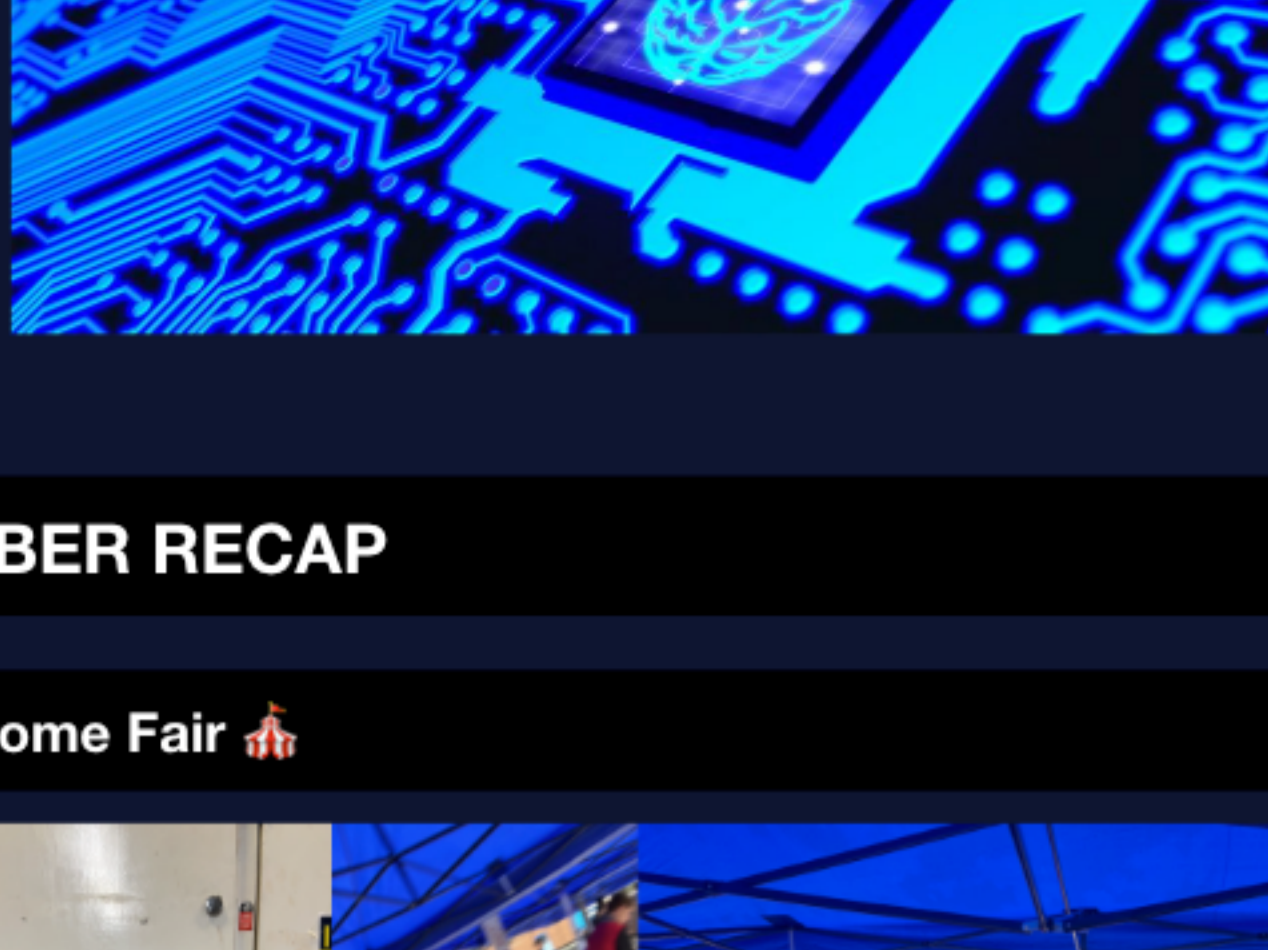




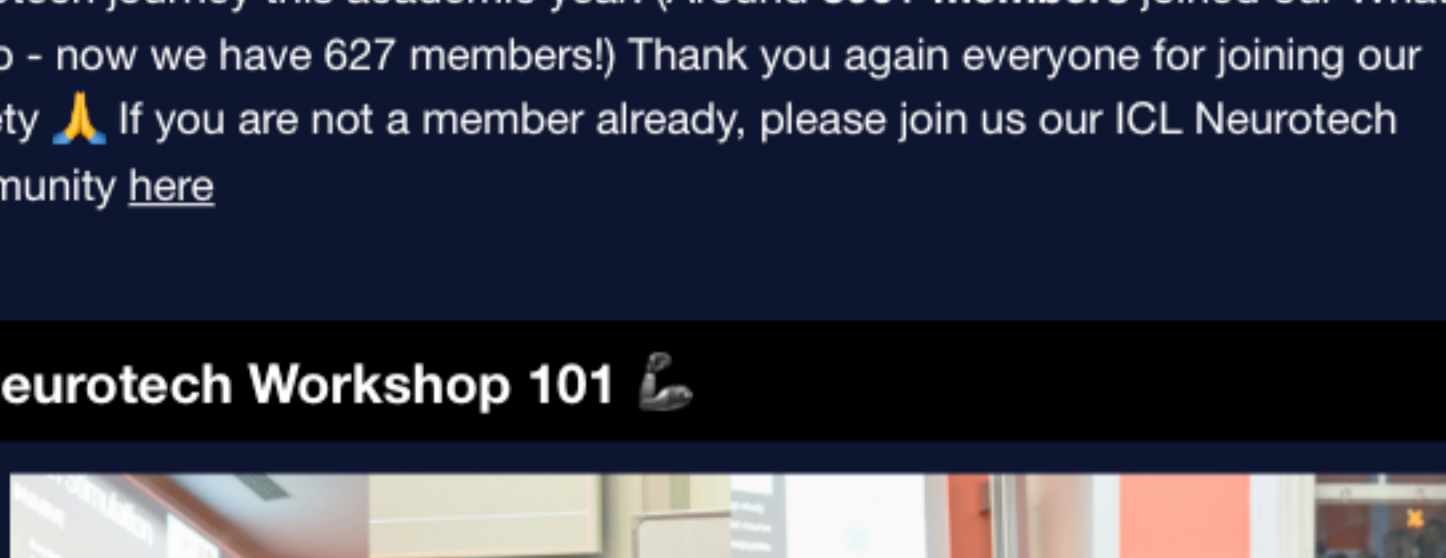
ICL Neurotech Monthly Newsletter

ISSUE 1. NOVEMBER 2024



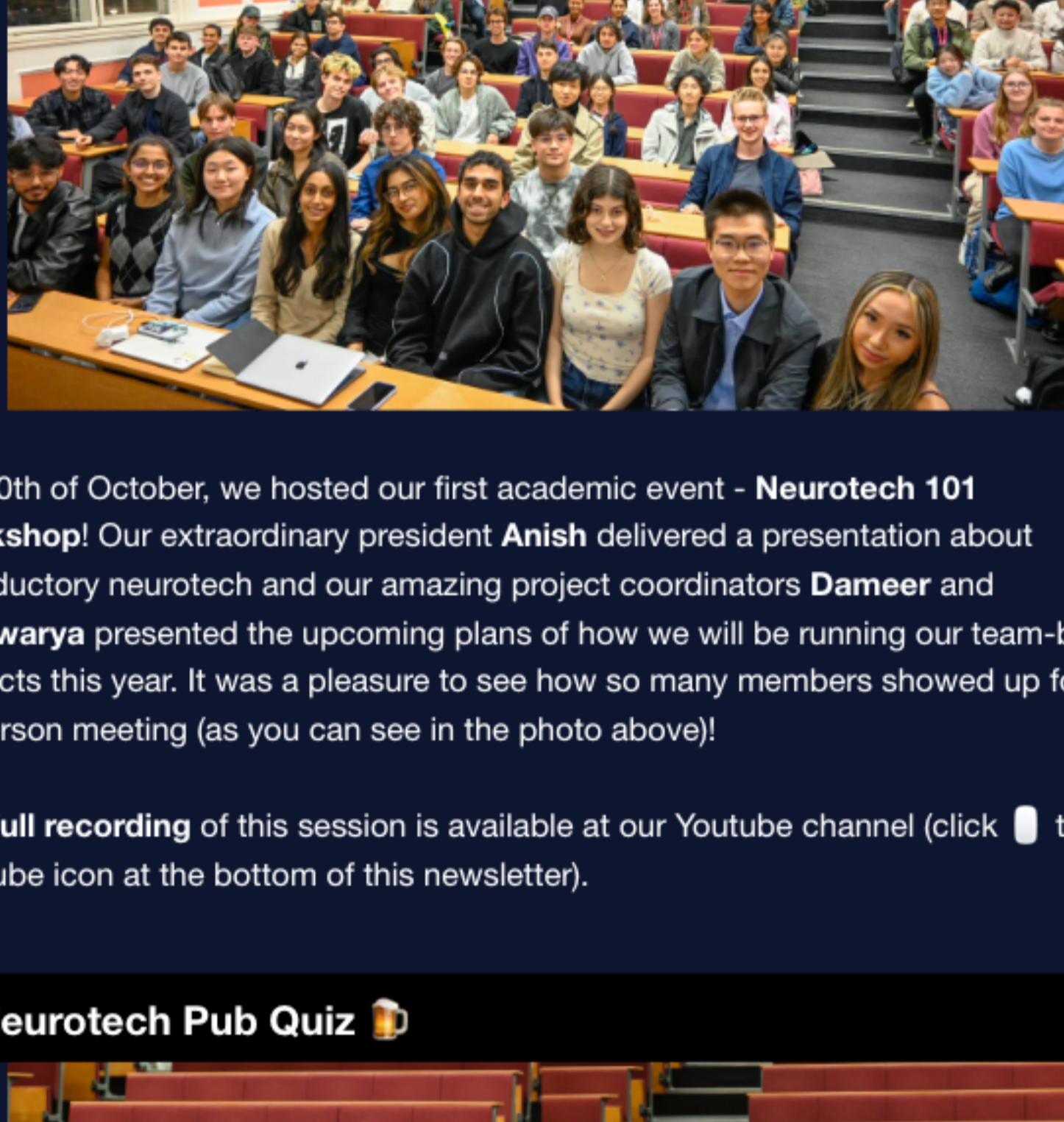
OCTOBER RECAP

1. Welcome Fair 🎉




The Imperial College Welcome Fair took place on 1st of October. Despite the horrible wet weather, we successfully attracted over **a 100 of amazing students** to join our neurotech journey this academic year! (Around **300+ members** joined our WhatsApp group - now we have 627 members!) Thank you again everyone for joining our society 🙌 If you are not a member already, please join us our ICL Neurotech community [here](#)

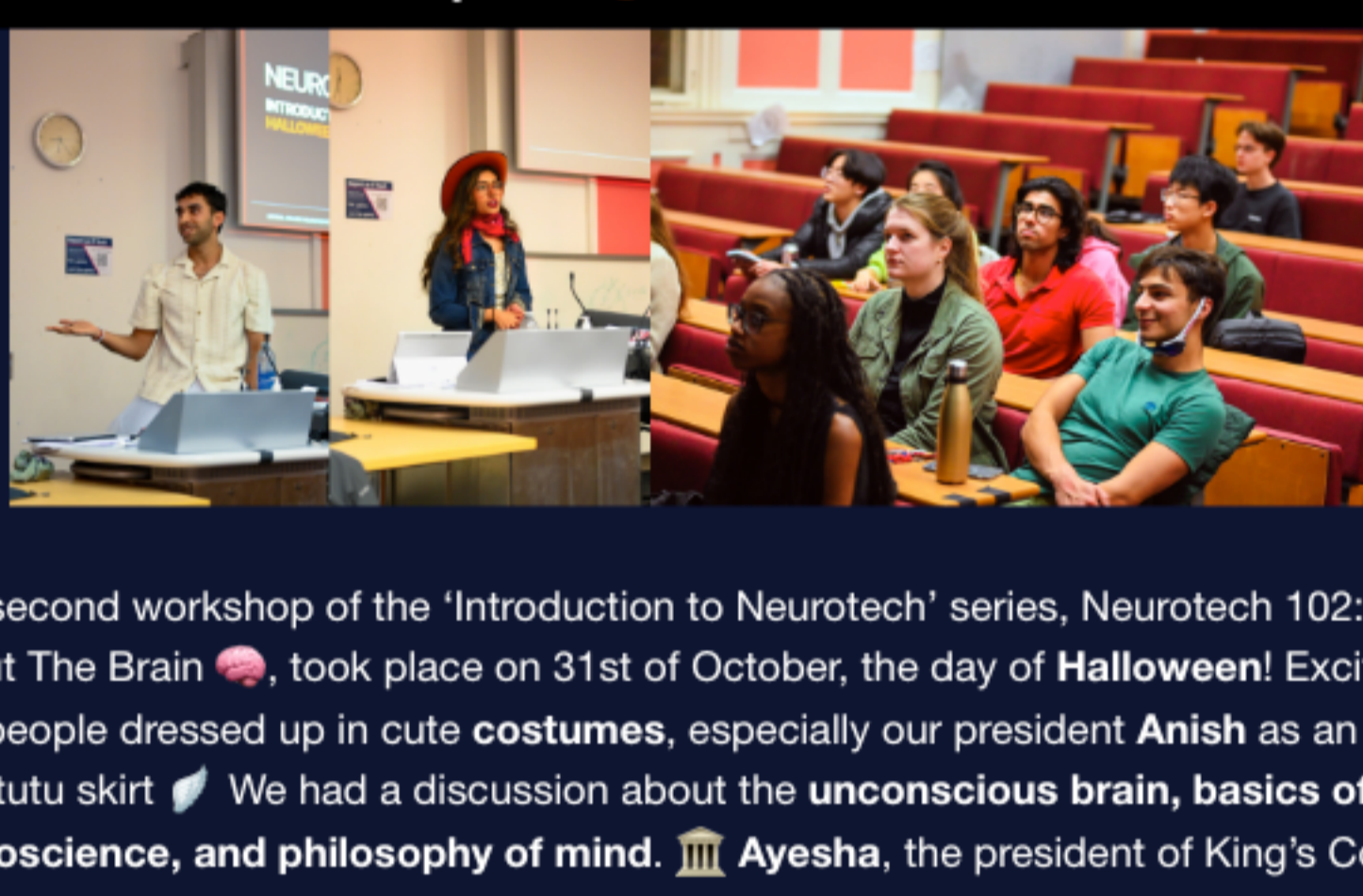
2. Neurotech Workshop 101 🧑‍🎓



On 10th of October, we hosted our first academic event - **Neurotech 101 Workshop!** Our extraordinary president **Anish** delivered a presentation about introductory neurotech and our amazing project coordinators **Dameer** and **Aishwarya** presented the upcoming plans of how we will be running our team-based projects this year. It was a pleasure to see how so many members showed up for our in-person meeting (as you can see in the photo above)!

The **full recording** of this session is available at our Youtube channel (click  the Youtube icon at the bottom of this newsletter).

3. Neurotech Pub Quiz 🍷



We hosted our first social of the year, a **Neurotech-themed pub quiz**, on October 24th. Open to all and with a prize of **curly fries** 🍟 on the line, we went through round and round of committee-written questions on Imperial, London, Neurotech and more! [Congratulations](#) to the winners, and looking forward to seeing everyone at our next social event!

4. Neurotech Workshop 102 🧠



Our second workshop of the 'Introduction to Neurotech' series, Neurotech 102: All About The Brain 🧠, took place on 31st of October, the day of **Halloween!** Excited to see people dressed up in cute **costumes**, especially our president **Anish** as an angel with tutu skirt 🙌 We had a discussion about the **unconscious brain, basics of neuroscience, and philosophy of mind**. 🏛️ **Ayesha**, the president of King's College London Neurotech Society, joined us to deliver a presentation on the biological mechanisms of the brain. Now we've only got one workshop left to go!

WHAT'S ON 📅: NOVEMBER 2024

1. [Speaker Series 🗣️] Precisely Interfacing with the Human Brain at Scale: Unlocking the **Next** Frontiers

Thur, 7 Nov 2024

Join online via Microsoft Teams [here](#)

Jacques Carolan and Gillian Koehl - from **Advanced Research Invention and Agency (ARIA)** (<https://www.aria.org.uk/>) are giving us a talk about ARIA and their opportunity space developing next-generation technologies. 🖥️

If you missed the talk, fear not, it will be uploaded to our [YouTube channel here](#) after the talk

2. Collab with Imperial FemTech 🧑‍🔬 and Neuroscience Society: 1. Basics of Women's Health & 2. Wearables 🧘‍♀️

Thur, 14 Nov 2024 & Thur, 21 Nov 2024

We are planning to host two collaboration events with Imperial's FemTech and Neuroscience Society this term.
Our first event will be about the 'Basics of Women's Health' 🏥 and the second will be about 'Wearables' 🕒!
Find more details on our Instagram!

3. [Speaker Series 🗣️] CEO of Brainomix, the Future of Stroke Technology

Tue, 26 Nov 2024

We are hosting another speaker series event with **Dr Michalis Papadakis**, the **CEO of Brainomix** and an **Imperial alumni!** (<https://www.brainomix.com/michalis-papadakis>) He is leading one of the largest 🌟 real world evaluation of stroke AI imaging 🧠 and will teach us about the future of stroke technology.

4. UCL X Imperial Neurotech Symposium

Sat, 30 Nov 2024

Tickets 🎫 and details for this event will be announced later!
Meanwhile, have a look at the promotion video in our Instagram 📺

EXTERNAL NEUROTCH OPPORTUNITIES 📅

1. BNA x ABPI x ICL Early Career Neuroscience Symposium

Fri, 15 November 2024, 9:30am - 4pm GMT

Scale Space White City, 58 Wood Lane London W12 7RZ

https://www.eventbrite.co.uk/e/bna-x-abpi-x-icl-early-career-neuroscience-symposium-tickets-1038441916727?aff=ebdssbdestsearch&keep_tld=1

2. Cure Parkinson's Autumn Research Update Meeting 2024

Wed, 27 Nov 2024 13:30 - 18:00 GMT

The Royal Society of Medicine, 1 Wimpole Street London W1G 0AE

<https://www.eventbrite.co.uk/e/cure-parkinsons-autumn-research-update-meeting-2024-tickets-1042058975447?aff=ebdssbdestsearch>

3. Professor Robert Hindges - Inaugural Lecture

Tue, 3 Dec 2024, 17:30 - 18:30 GMT

Lecture Theatre 1, New Hunt's House Guy's Campus London SE1 1UL

<https://www.eventbrite.co.uk/e/professor-robert-hindges-inaugural-lecture-tickets-1050385500307?aff=ebdssbdestsearch>

4. Instant Expert: Uncovering the mind's mysteries

Sat, 7 Dec 2024, 10:00 - 17:00 GMT

Congress Centre, 28 Great Russell Street London WC1B 3LS

<https://www.eventbrite.co.uk/e/instant-expert-uncovering-the-minds-mysteries-tickets-981626329777?aff=ebdssbdestsearch>

★ TECHNOLOGY ⚙️ OF THE MONTH ★

Electroencephalography (EEG) 🧠 is a technique that detects the electrical activity of the neurons by wearing metal electrodes on the scalp.

It is a valuable tool for any neurotech-related research, such as identifying neurological disorders, treating epilepsy, conducting experiments to observe cognitive processes, and integrating with BCI.

EEG is also relevant to our mind-controlled wheelchair project 🚗, which will be used to detect and collect brain signals from the user driving the wheelchair!

References:
Abhang, P.A., Gawali, B.W. & Mehrotra, S.C. (2016) Technological Basics of EEG Recording and Operation of Apparatus. In: Introduction to EEG- and Speech-Based Emotion Recognition. Elsevier. pp. 19-50. doi:10.1016/B978-0-12-804490-2.00002-6.
Shure, C. and Minguez J. (2024) What is EEG and what is it used for? | Bitbrain <https://www.bitbrain.com/blog/what-is-an-eeeg>

★ PAPER 📄 OF THE MONTH ★

Neurotech paper of the month is the one we discussed for our first journal club this year:

"Brain decoding: toward real-time reconstruction of visual perception 🧠"
(Benchetrit et al, 2023)

The paper illustrates the use of magnetoencephalography (MEG) to decode visual perception from brain activity to improve temporal resolution from traditional fMRI methods. 📄

If you are interested, have a look at the full paper with this link:
<https://arxiv.org/abs/2310.19812>

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