



# ICL Neurotech Monthly Newsletter

ISSUE 7. APRIL 2025

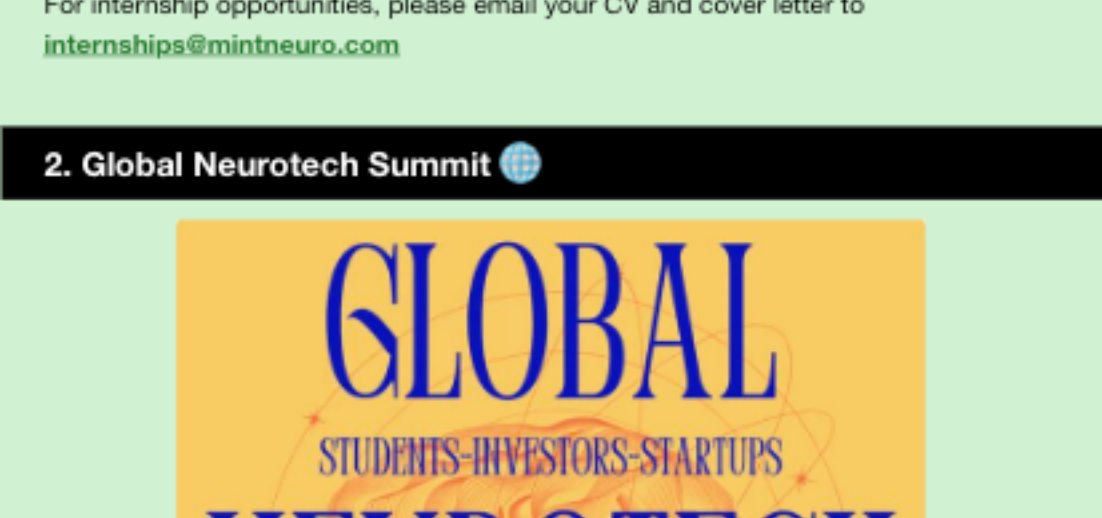


## NEWSLETTER TLDR

1. 🎧 **Reflecting on Dr. Dorian Hacı Talk and Global Neurotech Summit**
2. 📅 **April 2025 Events - Neurotech Unplugged: Coffee Chats with the co-founders of MintNeuro + Upcoming Neuralink Podcast**
3. ⭐ **Tech/Paper of the month - Temporal Interference (TI) & Bioresorbable Neural Implants**

## MARCH RECAP 🏆

### 1. Dr Dorian Hacı Talk - Chips over Pills: The Future of Neurotech ⚡📺



On 13th of March, we had the pleasure of hearing from **Dr. Dorian Hacı, the CEO and Co-founder of MintNeuro** about his journey to establish a successful neurotech company and the future of neurological interventions.

Dr. Hacı's journey for neurotech started from Imperial in the Centre for Bio-inspired Technology and Next Generation Neural Interfaces Lab. Building on his academic background at Imperial, he walked us through his active involvement in various entrepreneurship programs and competitions until he founded MintNeuro. He advised the importance of resilience in entrepreneurship and need to stay committed to our goals, even when faced with initial rejection.

MintNeuro is aiming to develop a platform fully based on **semiconductors** or platforms, instead of hardware to increase accessibility. Their technology has potential applications to microscale integrations, scalable manufacturing, and surgical innovations. They have been working on promising neurotech projects, including **DRE** (drug-resistant epilepsy) and **GOLD** (Reconfigurable semiconductor technology for advanced neural implants), with grants and awards supporting their research. (They have won **three UK Government ARIA Awards**!)

Dr. Hacı kindly decided to support us on running the **'Neurotech Unplugged'** program which is a drop-in session for aspiring neurotech students to receive mentoring from professionals. Please have a look at the details and sign-up link below!

If you're interested in joining MintNeuro, explore open positions at [mintneuro.com/home#careers](https://mintneuro.com/home#careers)  
For internship opportunities, please email your CV and cover letter to [internships@mintneuro.com](mailto:internships@mintneuro.com)

### 2. Global Neurotech Summit 🌐



We had the honour of co-hosting the **'Global Neurotech Summit'** on 28th of March with 10 amazing speakers and 275 attendees from across the globe!

Delivered by **professors, investors, CEOs, and executive director**, the participants engaged with the latest cutting-edge neurotechnologies from various perspectives and valued the chance to network internationally.

A special shout out to our outreach officer, **Darius**, and our former president, **Ari**, for co-organising the event!

#### FEATURED SPEAKERS:

##### Technology Deep Dive Panel

1. **Ulrich Hofmann** (Germany) - Professor of Neuroelectronic Systems at the Medical Center at The University of Freiburg, working at the intersection of neurosurgery, neurobiology and microtechnology.
2. **Nir Grossman** (UK) - Assistant Professor at Imperial College London, focusing on non-invasive neuromodulation techniques for brain stimulation.

##### Investor Panel

3. **Katherine Jones** (UK) - Investor at Hummingbird Ventures with a background in neuroscience and a focus on investing in early-stage health startups.
4. **Peter Schlecht** (Germany) - Core Angel Investor at Springboard Health Angels and the Founder, CEO, and now current Chief Advisor at Braingrade, building deep brain stimulation technology.

##### Startup Panel

5. **Chiara Capra** (Spain) - CEO of LIFE Neurotech & Chief Product Officer at Sense4Care with a robust background in wearable hashtag#medicaldevices for hashtag#Parkinson's.
6. **Akshat Sharma** (USA & UK) - Founder of Orbit, on a mission to unlock hashtag#cognition and improve hashtag#mentalhealth.
7. **Kirill Korotaev** (Netherlands) - CEO of Purple Gaze, an hashtag#AI platform generating mental health insights from eye movement data.
8. **Pierre Clisson** (France) - Timelflux, a free and open-source framework for the acquisition and real-time processing of hashtag#biosignals; Neurogate, a professional-grade biosignal acquisition device.

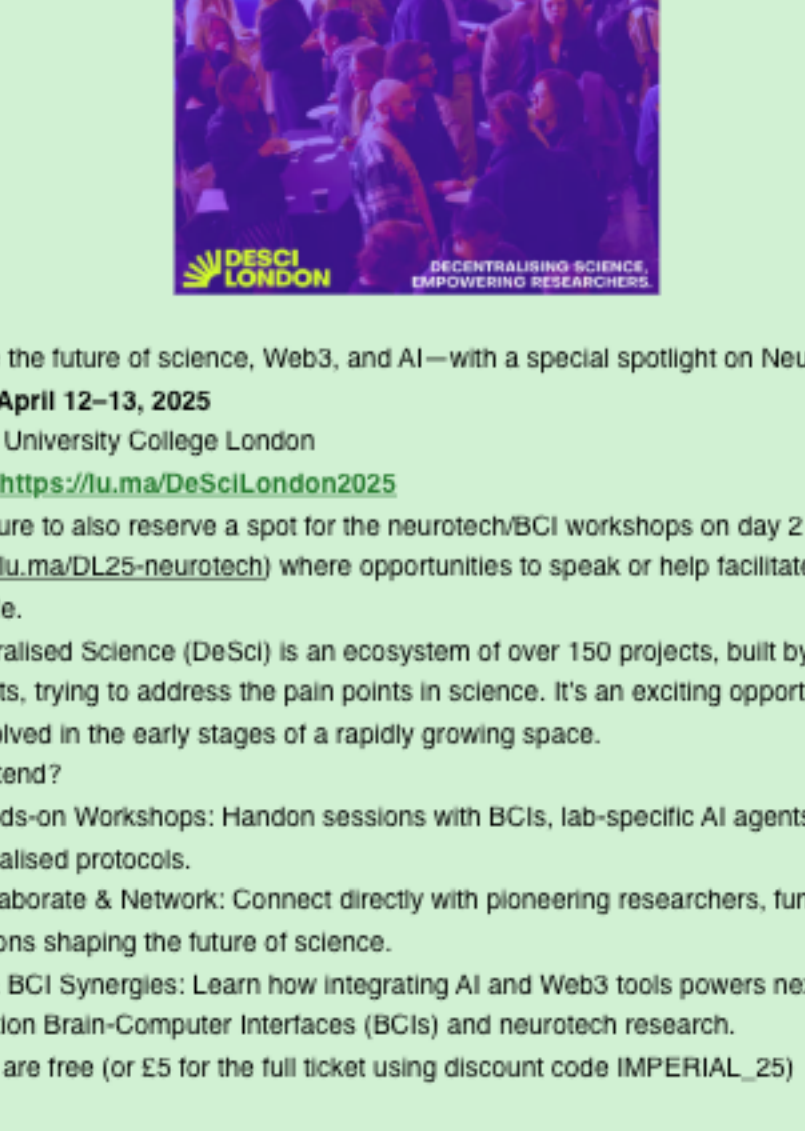
##### Future of Neurotech Closing Remarks

9. **Harris Eyre** (USA) - Lead of Neuro-Policy at Rice University and Executive Director of Brain Capital Alliance & Brain Economy Hub.

Credit: This article was written based on the summary by Roxana Grunenwald, one of the co-organisers of this event. Please read her full summary here: [link](#)

## WHAT'S ON 📅 APRIL 2025

### 1. Neurotech Unplugged: Coffee Chats with the co-founders of MintNeuro



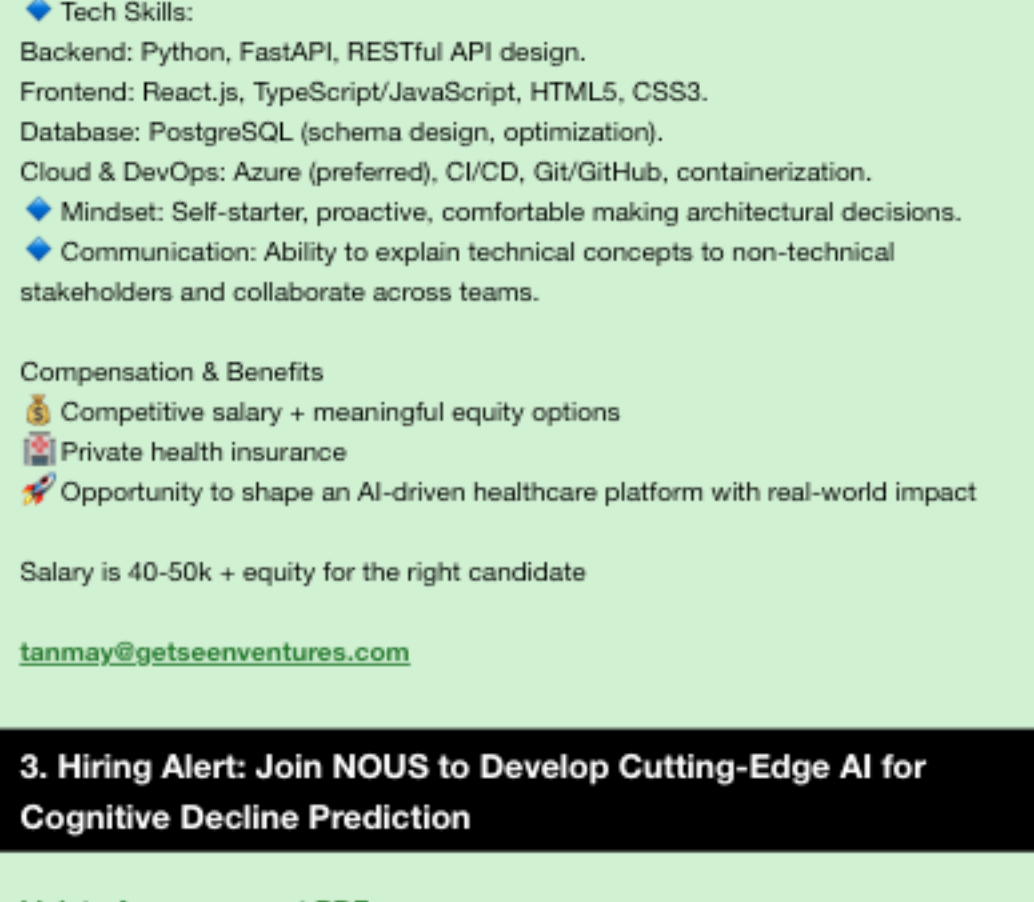
🎧 **Neurotech Unplugged: Coffee Chats with the co-founders of MintNeuro**  
Neurotech Unplugged is finally here! Get mentored by the minds behind MintNeuro — the startup developing next gen neural interfaces using semiconductor tech. This is your chance to ask anything: from spinning out neurotech, to pursuing a path in research that matters.

- 🎯 **Dr. Dorian Hacı** – CEO & Co-Founder (Entrepreneurship Path)
- 🎯 **Dr. Adrien Rapeaux** – Co-Founder & Neural Interface Engineer (Academic/Scientific Path)

📍 First session: April 25

🎟️ Limited spots – apply now using this link:  
<https://forms.office.com/e/w8uA706zZx>

### 2. Next podcast with Neuralink's Dr. Dan Adams



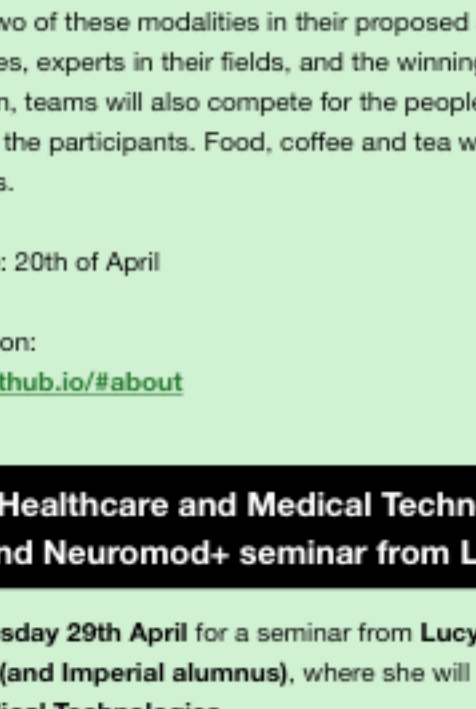
For our next podcast feature **On The Mind** 🧠, Neuralink's Dr. Dan Adams will be joining for a discussion of his journey, his current work, and the future 🎧🧠

Submit any questions by **April 12th** at <https://www.menti.com/aldz88j9dv14?source=qrc-page>

Check out our collaborators, **CruX UCLA & University of Pennsylvania Neurotech Society!**

## EXTERNAL NEUROTECH OPPORTUNITIES 📁

### 1. The Decentralised Science Conference 2025



Explore the future of science, Web3, and AI—with a special spotlight on Neurotech!  
When: **April 12–13, 2025**  
Where: University College London

RSVP: <https://lu.ma/DeSciLondon2025>

Make sure to also reserve a spot for the neurotech/BCI workshops on day 2 (<https://lu.ma/DL25-neurotech>) where opportunities to speak or help facilitate are available.

Decentralised Science (DeSci) is an ecosystem of over 150 projects, built by scientists, trying to address the pain points in science. It's an exciting opportunity to get involved in the early stages of a rapidly growing space.

Why Attend?

🔧 **Hands-on Workshops:** Hands-on sessions with BCIs, lab-specific AI agents, and decentralised protocols.

🌐 **Collaborate & Network:** Connect directly with pioneering researchers, funders, and institutions shaping the future of science.

🧠 **AI & BCI Synergies:** Learn how integrating AI and Web3 tools powers next-generation Brain-Computer Interfaces (BCIs) and neurotech research.

Tickers are free (or £5 for the full ticket using discount code **IMPERIAL\_25**)

### 2. Full-Stack Engineer Recruitment

Hey guys, I'm currently working with a cutting-edge AI-driven healthcare startup in Cambridge that has secured seed funding and is now looking for a Full-Stack Engineer to join their growing team.

About the Role

As a Full-Stack Engineer, you'll play a key role in shaping and building the platform, working across the stack to develop scalable, high-performance solutions. You'll be involved in everything from designing intuitive front-end experiences to architecting robust backend systems and deploying infrastructure on Azure.

What You'll Do

- ✅ **Build & Scale** – Design and develop end-to-end solutions, taking features from concept to production.
- ✅ **Front-End Development** – Create intuitive, responsive interfaces using React.js, ensuring a seamless user experience.
- ✅ **Back-End Development** – Lead backend development with FastAPI (Python), focusing on performance and scalability.
- ✅ **DevOps & Cloud** – Manage deployments, implement CI/CD workflows, and ensure platform reliability on Azure.
- ✅ **Data Management** – Architect and optimize PostgreSQL databases, ensuring security, integrity, and performance.
- ✅ **Strategic Impact** – Influence product direction and technical decisions to help shape the future of AI in healthcare.

What We're Looking For

- 💡 **Experience:** At least 2+ years in full-stack development, with a strong focus on Python (FastAPI) and React.js.
- 💡 **Tech Skills:**

Backend: Python, FastAPI, RESTful API design.

Frontend: React.js, TypeScript/JavaScript, HTML5, CSS3.

Database: PostgreSQL (schema design, optimization).

Cloud & DevOps: Azure (preferred), CI/CD, Git/GitHub, containerization.

- 💡 **Mindset:** Self-starter, proactive, comfortable making architectural decisions.
- 💡 **Communication:** Ability to explain technical concepts to non-technical stakeholders and collaborate across teams.

Compensation & Benefits

💰 Competitive salary + meaningful equity options

🏠 Private health insurance

🚀 Opportunity to shape an AI-driven healthcare platform with real-world impact

Salary is 40-50k + equity for the right candidate

[tanmay@getseenventures.com](mailto:tanmay@getseenventures.com)

### 3. Hiring Alert: Join NOUS to Develop Cutting-Edge AI for Cognitive Decline Prediction

[Link to Announcement PDF](#)

The position is for Paris, France but in case of alignment, it can be further discussed.

### 4. NeuroHarmonics Design Engineer/Mechanical Designer Recruitment

We're seeking a hands-on Design Engineer/Mechanical Designer to join our London-based neurotech startup, to bring design concepts to life through mechanical expertise - designing, prototyping, and iterating on the mechanical components of our head-wearable neurotech device.

Details:  
<https://neuroharmonics.com/careers/design-engineer-mechanical-designer/>

### 5. Cambridge MIND Hackathon

We are pleased to announce the Cambridge multimodal imaging neuroscience data (MIND) hackathon, that will take place at West Hub on 28th & 29th April 2025!

We welcome all researchers and students in neuroscience, cognitive science, computer science, engineering, and related disciplines to get together for 2 days of problem solving on the topic of multimodal functional neuroimaging data analysis. Over 2 days, participants will compete in teams of 3-5 people to find an innovative way of analysing/interpreting multimodal neuroimaging data to solve set problems by leveraging the advantages of different neuroimaging modalities. Participants will be provided pre-recorded data from EEG, fNIRS and fMRI, and each team will need to incorporate at least two of these modalities in their proposed solution. Projects will be evaluated by judges, experts in their fields, and the winning team will share a £500 prize. In addition, teams will also compete for the people's choice prize of £250, voted for by all the participants. Food, coffee and tea will be provided throughout the 2 days.

Registration Deadline: 20th of April

Details and Registration:

<https://cam-mind.github.io/#about>

### 6. Innovating in Healthcare and Medical Technologies: Centre for Neurotech and Neuromod+ seminar from Lucy Jung

Please join us on **Tuesday 29th April** for a seminar from **Lucy Jung, CEO of LYEONS Neurotech (and Imperial alumnus)**, where she will discuss: **Innovating in Healthcare and Medical Technologies**

**Talk summary:** Innovation in healthcare begins with human-centred design - deeply understanding user and key stakeholders needs to develop solutions that truly fit into real-world contexts. By aligning these insights with robust scientific research, we can ensure medical technologies are both evidence-based and deliver clear value, driving meaningful and sustainable impact.

**Bio:** Lucy Jung, the founder of LYEONS and Charco Neurotech, and an inventor of neuromodulation medical devices, is a design engineer focused on projects related to patient care. She studied Innovation Design Engineering MSc/MA (Distinction) at Imperial College London and Royal College of Art, Industrial and Informatic Design BA from Korea University, and holds a Certificate of Management Excellence (CME) diploma from Harvard Business School, funded by the Royal Academy of Engineering (RAEng). She is a mentor and tutor at Imperial College London and the Cambridge Judge Business School (CJBS) accelerator programme.

The seminar will be in-person in **228 Royal School of Mines Building, South Kensington Campus**. Join us for refreshments, and to meet the speaker and network with colleagues after the talk.

If you can't make it in-person, the event will be broadcast via **Teams** (joining details will be sent after you have registered).

Registration:

<https://forms.office.com/e/LHt34HrjwY>

Inquiries:

[k.hobson@imperial.ac.uk](mailto:k.hobson@imperial.ac.uk)

### 7. NeuroNext Forum

Join the Innovation Forum London at NeuroNext for an insight into the latest advancements in NeuroTech!

Thursday, May 8 - 6 - 9pm GMT+1

UCL Roberts Building

Torrington Place London WC1E 7JE United Kingdom

Link: <https://www.eventbrite.co.uk/e/neuronext-tickets-1279289442159?utm-campaign=social&utm-content=attendeeshare&utm-medium=discovery&utm-term=listing&utm-source=wsa&aff=ebdssshwebmobile>

Discount code: ISAAC20

## ★ TECHNOLOGY OF THE MONTH ★

**Temporal Interference (TI)**, in short, is a **non- or minimally invasive** version of deep brain stimulation (DBS). TI works by delivering high-frequency electrical currents through electrodes placed on the scalp. These currents operate at kilohertz frequencies that differ slightly from each other which generates a low-frequency modulation (or "beat"). This resulting beat frequency falls within the **range of natural brain oscillations** (1-100 Hz) and can effectively **influence neural activity**.

A key advantage of this approach is **spatial precision**: the ability target specific brain regions without affecting surrounding tissue. It has promising potential applications for various brain disorders such as epilepsy, Parkinson's disease, and neuropsychiatric conditions. **MintNeuro** is working on a project of developing minimally invasive multiplexed **temporal interference** brain stimulation led by Dr Nir Grossman at Imperial College London! ([link to article](#))

References:  
<https://www.nature.com/articles/s41594-024-00600-4>  
<https://www.nature.com/articles/s41594-024-00600-4#text>

## ★ PAPER OF THE MONTH ★

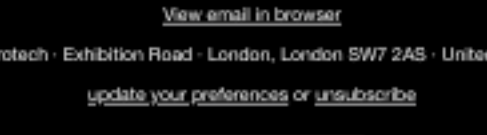
Selected paper of April 2025 is:

**"Fully bioresorbable hybrid opto-electronic neural implant system for simultaneous electrophysiological recording and optogenetic stimulation (Cho et al., 2024)"** 🌱🔬

Adding on to MintNeuro's innovation, we wanted to introduce another research which also aims to improve current neurotechnologies. This paper introduces the use of **bioresorbable neural implants** for electrophysiological recordings and optogenetic stimulations, to reduce the risk and effort of removing the implanted devices after the measurement. The researchers used PLGA, Mo/Si electrode layers, and silicon dioxide to produce a device that degrades in biofluids like cerebrospinal fluid (CSF).

Have a look at the full paper with this [link](#)

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Contact us: [neurotec@ic.ac.uk](mailto:neurotec@ic.ac.uk)



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