

Ulster University
Intelligent Systems Research Centre
Computational Neuroscience,
Neurotechnology & Neuro-inspired
AI
(ISRC-CN³)
Summer School

26-30 August 2024



ISRC-CN³

 Bitbrain



The School

- Conceptualized to train the next generation of researchers on state-of-the-art developments on **computational neuroscience, neurotechnology** and **neuro-inspired AI**
- **Started in 2021**; 4th year and beyond
- Showcases the research capabilities of ISRC



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Awards ▾



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2024 Best Regional Professional Chapter Winners

UK – Ireland

Malaysia

Colombia

Jordan

Lone Star

2024 Best Regional Student Chapter Winners

Indian Institute of Technology – Kharagpur

National Technical University of Athens

Latin University from Panama

National School of Electronics and Telecoms

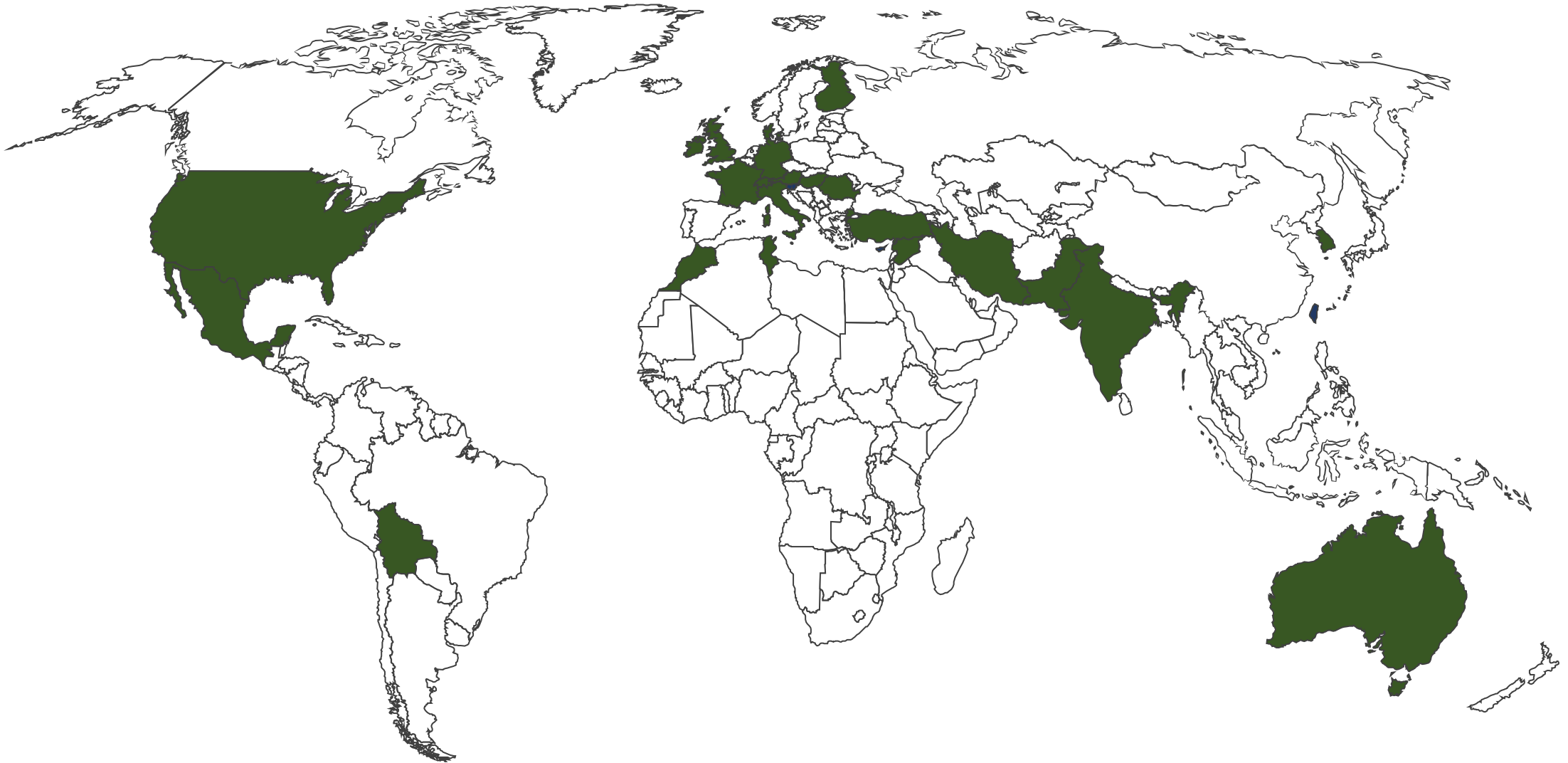
2024 Best Overall Regional Chapter Winners

Professional: UK – Ireland

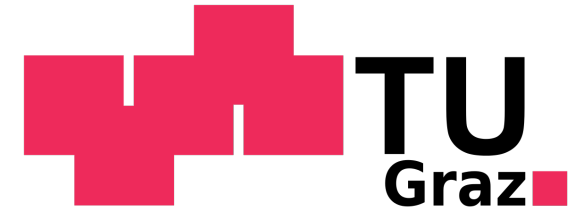
Student: Indian Institute of Technology – Kharagpur

SUBSCRIBE

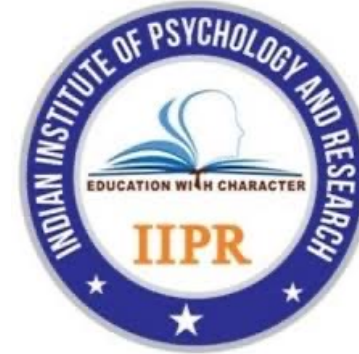
Applicants from 22 countries



Affiliation



Affiliation



Affiliation



세브란스
SEVERANCE



Salute Devices

Rehumanity

AutocurriculaLab, NeuroAILab & LangTechAI

Housekeeping

- Latest update of the information booklet available on GitHub (<https://github.com/ISRC-CN3/General-Information>)
- The GitHub link (<https://github.com/ISRC-CN3>) will be where the Summer School's resources will be stored and made available
- Join the ISRC-CN3 2024 Slack (https://join.slack.com/t/isrccn32024/shared_invite/zt-2ohou3y42-BzpMftB~hW7GIMTzyAspDQ) for queries, discussions, networking, etc.
- **Online attendees: Please turn off your microphone when not speaking – use chat box for questions.**
- **Please do not talk during lecture**
- Videos of recorded presentations made available at end of day – don't share to non-attendees
- **In-person attendees:**
 - On arrival today, please complete registration at Reception
 - **Temporary username and password** will be provided to access our lab computers on Day 1 Lab session.
 - Each morning, please sign-in at the reception of the ISRC building
 - Wi-fi Guest Account joining instruction: <https://www.ulster.ac.uk/ds/services/wifi-services/visitor-wifi>
 - Coffee, tea breaks and Lunches will be provided and held at **MU301, MU Building**
 - Thursday (29th August) dinner will be held at **Stitch & Weave, Derry, at 7:30pm**
 - Derry City Tour - Keep an eye out for the weather!!!

Schedule

- **Monday, 26th August:**
- **Madeleine Lowery (9.30am – 10.30am GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_OTkxNGY0ZDMtYWl5Zi00MWJkLTgxODktZWU1OWZhMzNkNGMw%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Daniela Tropea (10.45am – 12.45pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_Mjk3MGJhNGltMGMwMS00ZWYzLTg3YTQtOGY3Mzk5YjZlMTJi%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lunch & Derry City Tour (12.45pm – 3.00pm GMT)**
- **Barry Dillon (3.15pm – 5.15pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzQwNGFmNzAtYzQyNi00MGFhLWJmZDUtMjg3MzQ1ZWVhNTBl%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lab (5.30pm – 7.00pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_MGQyNGI4ZmQtYThjYi00ZTk3LWE1M2MtYzViMzc3OTY1MGQ2%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d

Schedule

- **Tuesday, 27th August:**
- **Athena Akrami (9.00am – 10.00am GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzdkN2EzZDUtNmM1ZC00ZjM0LWE5YjQtMDA2Yjg3N2IzOGUy%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Cian O'Donnell (10.00am – 11.30am GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_NzRhYzEwNmItNDBjOS00MWMwLTIIYjctYzY3ZjEyYjZkNThj%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Marinus Toman (11.30am – 12.30pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDkwNDFhMGYtOGI0YS00YWE4LTk1NGYtN2ExMmE4ZWZm%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lunch & ISRC Lab Tour (12.30pm – 2.30pm GMT)**
- **KongFatt Wong-Lin (2.30pm – 4.00pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_MzkzODNmNWMTOTcxMy00YTl4LWJjNWUtMWJmMzgWnmYzMTk1%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Panel Discussion (2.30pm – 4.00pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmJIOWM4NzItMTJhMy00NTgzLWJhYjYtYjE3YzRkMTJiNjk0%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lab (5.30pm – 7.00pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_ODY2ODEyNzctNzFkNS00MTIhLWE1ZjktYTdkNjAyNDIzZmZl%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d

Schedule

- **Wednesday, 28th August:**
- **Shirin Dora (9.00am – 10.30am GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_MWI0ZmU1NWItNGJkYy00NDUwLWEzMDMtZGMzNTlkNjMwYjM3%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Saugat Bhattacharyya (10.45am – 12.15pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzhjOTY2NjUtMjQ2OS00NTEwLWJhZTltODRIYmJiZjkyMzcy%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lunch (12.15pm – 2.15pm GMT)**
- **Javier Minguez (2.15pm – 3.15pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_ODVkJmZmMWUtM2lwMi00MTU2LWJhZTltODRIYmJiZjkyMzcy%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Damien Coyle (3.30pm – 5.00pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_MTEwNDJlMWMtOWYzYy00MDQyLWJhZTltODRIYmJiZjkyMzcy%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lab (5.30pm – 7.00pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_NTQ1MGQ0YjUtODA5MS00NDUyLTgyMzUtNTRlMmJlYWI3YWQy%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d

Schedule

- **Thursday, 29th August: Dinner at Stitch & Weave from 7.30pm onwards**
- **Nikola Kasabov (9.00am – 10.00am GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZDVhNjU0ZWQtOGFhMS00MjBjLWE3ZjYtYTNINmYwMWIxNTBm%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Girijesh Prasad (10.15am – 11.45am GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_MjhmZTYyNjMtM2ZlZS00YTk5LWlxMzMtZjA4OTU2MzVmNGQx%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lunch & Networking (11.45am – 1.30pm GMT)**
- **Chiara Bartolozzi (1.30pm – 3.00pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZTkxMWQ4MGYtNTc2OS00Y2FmLTkyZmEtZDVIYjBiNjYzMWI0%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **KC Santosh (3.00pm – 4.00pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_YzUwZTkzYjctMjcyZS00ODkwLTk1N2MtNzIxN2ZkZTBhM2Yw%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Panel Discussion (4.15pm – 5.00pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_MGMwNTU4ZGYtNjY5Yy00NDhmLTlINzQtZjUwODY0ZTBIMWFk%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lab (5.30pm – 6.30pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_OTUzNWNlZGUtY2FIMS00YTE0LThmNzAtNDBiNzA2N2YxOTc%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d

Schedule

- **Friday, 30th August:**
- **Student Presentation (9.30am – 12.30pm GMT):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_ODI5YjA4M2UtZjZi00YjBILWI0NGQtNjcyMzY4YjZmM2Mw%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d
- **Lunch & Networking (12.30pm – 2.00pm GMT)**
- **Industry Talks – BITBrain & g.tec (2.00pm – 3.30pm):** https://teams.microsoft.com/l/meetup-join/19%3ameeting_MmQxMmZkNGEtYjNiNy00OWQzLTIIMDAzMjc1NGU2ZmQ1ZWl2%40thread.v2/0?context=%7b%22Tid%22%3a%226f0b9487-4fa8-42a8-aeb4-bf2e2c22d4e8%22%2c%22Oid%22%3a%22d3079e99-7fd1-41a0-ae91-5192657eae6c%22%7d

Student Presentation

- **PRESENT YOUR OWN RESEARCH IDEA OR WORK**
 - **How will neuroscience help in your research?**
- Mini-presentation on the project→**30st August 2024 (Friday) from 9.30am-12.30pm**
- Title of mini-presentation to be submitted by **29th August 2024 (Thursday), 7pm**

Join as member



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IEEE Electron Devices Society
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For more information:

<https://www.embs.org/>

Join as member



Northern Ireland Local Group

<https://www.bna.org.uk/>

<https://neuroscienceireland.com/>

Contact: Elaine Murray (e.murray@ulster.ac.uk), Ulster University

Derry City



Walking Tour- Monday 26th



