

OPEN SCIENCE NEURO HACKATHON

Outcomes Report

Course Objectives

- To facilitate the development of open-source and community-based research tools.
- To introduce neuroimaging technology and open-source analytical techniques (e.g. Python).
- Deliver ethical, collaborative, and inclusive solutions in neuroscience.
- To facilitate links between local scientists and neuroscientists across the diaspora.

At a Glance

300+ applicants

27 hackathon participants

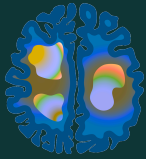
5 expert facilitators

**Lilongwe University for
Agriculture and Natural
Resources**

Feb 10 - 21, 2025



Participant Favorite Topics



Intro to Neuroscience and Neuroimaging



Neuromotor Interfaces for Human-Computer Interaction

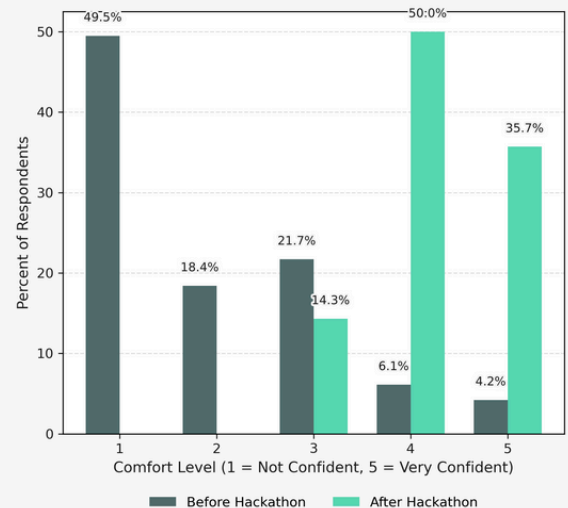


Python for Neuro Data Science



Open Science in Africa

Python Confidence Levels Before vs. After Hackathon



Learn More

GitHub Repository: <https://github.com/victoriamccray/Hackathon>

Contact: Reach out to Victoria McCray and team!



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Participant Voices

Interdisciplinary Skill-Building

"It shaped my thinking on how multidisciplinary programming languages are."



"I find the topic very exciting, studying how the brain works given different scenarios we face in our day-to-day lives. I'd like to explore more on the different measures used, such as fMRI and EEG."

"It has helped me strengthen the desire to pursue bioinformatics, combining my biological background with programming."

"The program was so engaging and challenging. I have learnt a lot."

Collaboration and Peer-Mentorship

"The course was like a motivation for me to be interested in neuroscience computation."



"I've gained skills in neuroimaging, I made new friends from different programs from my school, and I also made a new mentor, one of our facilitators."

"Participating in the program was truly transformative. It ignited a passion for exploring how data science can unravel the complexities of biological systems"

Community-Tailored Facilitation

"It has greatly influenced my love for neuroscience with the introduction of MRI machines in Malawi"

"I was really satisfied with the presenters. They made the course engaging and interactive, ensuring we not only grasped the material but also felt involved throughout the sessions."

"Continue these discussions and lectures in other African regions. The presenters are really good at it."

