

**Call for Proposals for a session to be held at the Annual Conference of the Royal Geographical Society, London, 27 to 30 August 2024**

**Who let the brain out? The potential contributions of geography to the emerging discipline of neuroergonomics**

Over the past twenty years, tentative and early work at the intersection of neuroscience, cognitive science engineering and human factors has borne fruit as a field known as neuroergonomics has emerged. Neuroergonomics was initially proposed by Parasuraman (1998), and subsequently formalized in Parasuraman & Rizzo (2006). Together, they proposed the examination of brain mechanisms and underlying human–technology interaction in increasingly naturalistic settings, the latter of which are representative of work and everyday-life situations (Ayaz & Dehais, 2018). The discipline has therefore been defined as the “scientific study of the brain mechanisms and psychological and physical functions of humans in relation to technology, work and environments”. Such study is with a view to better understanding the relationships between neuroscience and perceptual, cognitive and motor functioning.

This session is inspired by Parasuraman & Rizzo (2006) and by Ayaz & Dehais (2018), among others. It aims to explore the nascent but growing corpus of work in neuroergonomics, from geographical perspectives.

Possible topics include (but are not limited to):

- Descriptions and case studies of the “naturalistic settings ... representative of work and everyday-life situations” which contextualise investigations in neuroergonomics;
- Methodological approaches to such investigations;
- Ethical implications of the use of IoT and Data Science in such investigations;
- Personal geographies of health and well-being, particularly as seen through the lenses of neuroergonomics; and
- Citizen science and the democratization of geographical investigation of neuroergonomics.

Enquiries to Kenneth Y T Lim (voyager@mac.com / kenneth.lim@nie.edu.sg) are welcome.

Session organizer:

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Presenters are kindly invited to submit their proposals to the session organizer by the 23rd of February 2024. Proposals should minimally comprise the title of the paper, an abstract (of up to 150 words), and full contact details.