

COREY RATCLIFFE

BSc, MRes, PhD Student - 4th Year

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Psychologist turned cognitive neuroscientist turned clinical neuroimager. Previously involved with MRI and neuropsychological research in both clinical and non-clinical settings, from study conception to completion. Primary research themes are brain infections, epilepsy, network neuroimaging, neuropsychology, imaging methodologies, and phenotyping. Comfortable with common (and uncommon) software packages and modalities in MRI research, and an experienced presenter/disseminator. Advocate for open science, rigorous methodological reporting standards, and international collaboration.

Publications

- 2024 Clinical Prediction Models for Treatment Outcomes in Newly Diagnosed Epilepsy: A Systematic Review
[Preprint] Machine Learning-Based Reconstruction of 2D MRI for Quantitative Morphometry in Epilepsy
[Preprint] Individualised Fibre-Ball White Matter Imaging Analysis of Drug Resistance in Focal Epilepsy
- 2023 [Second Author] The Cognitive Phenotype of Juvenile Absence Epilepsy: An Investigation of Patients and Unaffected Siblings
Neurocysticercosis-related Seizures: Imaging Biomarkers
- 2020 Cognitive Function in Genetic Generalized Epilepsies: Insights From Neuropsychology and Neuroimaging

Key Presentations

- 2024 Platform, *In-vivo Histology Workshop*, Hamburg
Platform, *Pharmacology PGR Seminar*, Liverpool
Platform, *Liverpool Neuroscience Group Meeting*, Liverpool
- 2023 Platform, *International League Against Epilepsy - British Branch Annual Meeting*, Newcastle
Poster blitz, *International Epilepsy Congress*, Dublin
- 2019 Platform, *American Epilepsy Society Annual Meeting*, Baltimore

Education

- PhD *University of Liverpool, England, 2021-2025*
National Institute of Mental Health and Neuro Sciences, India, 2021-2025
Neurocysticercosis-related Seizures: Epilepsy Biomarkers from Advanced Quantitative Magnetic Resonance Imaging
- MRes *University College London, England, 2018 - 2019*
Distinction in Cognitive Neuroscience
Neuropsychological Profiles in Patients with Juvenile Absence Epilepsy and their Unaffected Siblings
- BSc *University of Bangor, North Wales, 2014 - 2018*
Universiteit Leiden, Netherlands, 2016 - 2017
First Class Honours in Psychology with Neuropsychology with International Experience

Key Skills

Whilst still an early career researcher I have a wide breadth of experience, all of which I have actively leveraged into personal and professional development. My experiences in India and the Netherlands have made me adaptable, whereas my PhD and previous employment has made me reliable. I am a practiced communicator, both scientific and interpersonal, and a versatile researcher.

I take pride in my work, both independent and as part of a team. I write my own code, and although not a formally trained computer scientist, I am capable-to-advanced in/with all of the following:

Languages: Bash, R, Python, MATLAB, HTML, CSS

Image analysis: FSL, FreeSurfer, MRtrix3, ANTs, BIDS, SPM/CAT12, DSI Studio,

Visualisation: Surf Ice, MRICroGL, Scribus, GIMP, Inkscape, Blender

Dev/Office: Git, Pulsar, Pandoc, SPSS, VMs

All of my code (for published work) is available on my [GitHub](#).