

ELIZABETH YORK

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EMPLOYMENT

Postdoctoral Research Fellow in Microstructural Brain Imaging Jan '22 - present
Centre for Clinical Brain Sciences, University of Edinburgh

- develop/apply quantitative microstructural MRI analysis methods for multiple sclerosis cohorts
- multivariate statistical analyses inc. MRI, blood biomarkers, cognitive and clinical indices of disability
- report and disseminate results at conferences and as published literature

EDUCATION

Doctor of Philosophy (PhD) in Clinical Brain Sciences Sept '17 – Dec '21 (awarded March '22)
Centre for Clinical Brain Sciences, University of Edinburgh

Thesis: Magnetisation transfer imaging biomarkers of demyelination in multiple sclerosis (primary supervisor: Professor Adam Waldman; secondary supervisor: Professor David Hunt)

Dual Master of Science (MSc) in Brain and Mind Sciences Sept '15 – Aug '17

Year 1: University College London

Dissertation with merit: Brain Abnormalities in Congenital Hypothyroidism: a Resting-State fMRI & Voxel-Based Morphometry Study' (supervisors: Professor Chris Clark and Dr Hannah Cooper)

- Introductory Science and Methods
- Foundational Neuroanatomy, Systems and Disease
- Pathology and Diagnostic Neuroimaging
- Imaging Modalities
- Disease of the Nervous System: Epilepsy, Tumours, Pain and Infection
- Cellular and Molecular Mechanisms of Disease

Year 2: Sorbonne University (UPMC) & École Normale Supérieure, Paris, France

Dissertation with 'mention assez bien': Cerebral Bases of Visual Processing and Spatial Cognition in Normal Ageing: a Resting-State fMRI Study (supervisors: Dr Angelo Arleo and Dr Stephen Ramanoël)

- Physiology of the Neuron
- Neuroscience of Consciousness
- Systems Neuroscience
- Neurobiology of Psychiatric Disorders

Bachelor of Arts (MA) in Psychology and French (with ERASMUS year abroad) with upper second class honours Sept '10 – Sept '15
University of Glasgow

Dissertation: 'Click and it's gone! The questionable existence of an impairment effect on memory from taking photographs and the influence of expectation' (supervisor: Professor Frank E Pollick)

Key modules include:

- Statistics
- Individual Differences
- Physiological Psychology
- Social Psychology
- Professional Skills.
- Cognitive Psychology
- Human Development

LAB PLACEMENTS AND EXCHANGES

Microstructural MRI SINAPSE exchange visit (Prof Derek Jones) Nov, Dec '22 (2 weeks)
Cardiff University Brain Research Imaging Centre (CUBRIC)

Placement in Aging in Vision and Action Lab (Dr Angelo Arleo) Jan – Apr '17
Institut de la Vision, CNRS–INSERM–UPMC, Paris

Placement in Developmental Imaging & Biophysics Lab (Prof Chris Clark) Jan – May '16
UCL Great Ormond Street Institute of Child Health

GRANTS AND AWARDS

RS MacDonald Seedcorn Fund (£10,000) with matched funding from the Imaging Centre of Excellence (ICE) QEUH and Anne Rowling Regenerative Neurology Clinic	July '23
SINAPSE Early Career Researcher Exchange Fund (£2450)	Oct '22
CSO Scottish PhD Research & Innovation Network Traineeships in MND/MS	Sept '17 – Dec '21
ISMRRM Education Stipend (travel grant)	2019, 2020, 2022
Guarantors of Brain Travel Grant	2020
BICISMRRM Student Stipend	2020

SUPERVISION AND TEACHING

◦ Co-supervision of Wellcome Trust PhD student rotation project	2024
◦ Supervision of final-year BSc student project	2023
◦ Co-supervision of Wellcome Trust PhD student rotation project	2023
◦ Co-supervision of intercalating medical student project	2021
◦ Training of BSc and PhD students and research assistants	<i>Ad hoc</i>
◦ Contributing teaching lectures to online MSc course	<i>Ad hoc</i>

OTHER RELEVANT SKILLS

Computing	R; MATLAB; Linux; SPSS; LaTeX; FSL, SPM12; MS Office; Mac OSX.
Languages	English (native); French (fluent); Spanish (basics); Italian (basics).
Courses	Introduction to Good Clinical Practice (Aug '23); Informed Consent in Clinical Practice (Nov '23)

PUBLICATIONS (in date order, *authors contributed equally)

Kampaite, A, Gustafsson, R, **York, EN** et al. (2024) Brain connectivity changes underlying depression and fatigue in relapsing-remitting multiple sclerosis: a systematic review. *Plos one*, 19(3), e0299634. <https://doi.org/10.1101/2022.12.07.22283104>

Harper, J,* **York, EN*** et al. (2023) Quantitative T1 brain mapping in early relapsing-remitting multiple sclerosis: longitudinal changes, lesion heterogeneity and disability. *European Radiology*, 1-14. <https://doi.org/10.1007/s00330-023-10351-6>

Blesa Cábez, M, Vaher, K, **York, EN** et al. (2023) Characterisation of the neonatal brain using myelin-sensitive magnetisation transfer imaging. *Imaging Neuroscience*, 1: 1-17. <https://doi.org/10.1101/2023.02.01.23285326>

Meijboom, R, **York, EN** et al. (2023) Patterns of brain atrophy in recently-diagnosed relapsing-remitting multiple sclerosis. *Plos one*, 18(7), e0288967. <https://doi.org/10.1371/journal.pone.0288967>

York, EN et al. (2022) Longitudinal microstructural MRI markers of demyelination and neurodegeneration in early relapsing-remitting multiple sclerosis: Magnetisation transfer, water diffusion and g-ratio. *NeuroImage Clinical*. 36:103228. <https://doi.org/10.1016/j.nicl.2022.103228>

York, EN et al. (2022) Quantitative magnetization transfer imaging in relapsing-remitting multiple sclerosis: a systematic review and meta-analysis. *Brain Communications*, 4(2), fcac088. <https://doi.org/10.1093/braincomms/fcac088>

Meijboom, R, Wiseman, SJ, **York, EN** et al. (2022) Rationale and design of the brain magnetic resonance imaging protocol for FutureMS: a longitudinal multi-centre study of newly diagnosed patients with relapsing-remitting multiple sclerosis in Scotland. *Wellcome Open Res.*, 7:94. <https://doi.org/10.12688/wellcomeopenres.17731.1>

Kearns, PKA, Martin, SJ, Chang, YT, Meijboom, R, **York, EN** et al. (2022) FutureMS cohort profile: a Scottish multicentre inception cohort study of relapsing-remitting multiple sclerosis. *BMJ Open*, 12:e058506. <https://doi.org/10.1136/bmjopen-2021-058506>

York, EN*, Martin, SJ* et al. (2021) MRI-derived g-ratio and lesion severity in newly diagnosed multiple sclerosis. *Brain Communications*, 3(4), fcab249. <https://doi.org/10.1093/braincomms/fcab249>

Ng Kee Kwong, KC, Mollison, D, Meijboom, R, **York, EN** et al. (2021) Rim lesions are demonstrated in early relapsing-remitting multiple sclerosis using 3 T-based susceptibility-weighted imaging in a multi-institutional setting. *Neuroradiology*, 64(1):109-117. <https://doi.org/10.1007/s00234-021-02768-x>

Ng Kee Kwong, KC, Mollison, D, Meijboom, R, **York, EN** et al. (2021). The prevalence of paramagnetic rim lesions in multiple sclerosis: A systematic review and meta-analysis. *Plos one*, 16(9), e0256845. <https://doi.org/10.1371/journal.pone.0256845>

Ramanoël, S, **York, E** et al. (2019) Age-related differences in functional and structural connectivity in the spatial navigation brain network. *Frontiers in neural circuits*, 13, 69. <https://doi.org/10.3389/fncir.2019.00069>

Ramanoël, S, **York, E** and Habas, C, (2018) Participation of the caudal cerebellar lobule IX to the dorsal attentional network. *Cerebellum & ataxias*, 5(1), 1-5. <https://doi.org/10.1186/s40673-018-0088-8>

CONFERENCES, TALKS AND WORKSHOPS

British Society of Neuroradiologists Annual Meeting , Edinburgh, presentation and poster	2023
Northern Connections in MS Meeting 2023 , Edinburgh, attended	2023
Edinburgh-Cambridge MS Society Research Symposium , Edinburgh, presentation	2023
SINAPSE ASM 2022 , Glasgow, presentation (<i>awarded best speaker in category</i>)	2022
Microstructure Imaging meets Machine Learning , post-ISMRM workshop, attended	2022
Joint Annual Meeting ISMRM-ESMRMB & ISMRT , London, three posters	2022
Northern Connections in MS Conference 2021 , Edinburgh, attended	2021
ISMRM & SMRT Virtual Conference & Exhibition , Virtual, poster	2020
ESMRMB 36th Annual Meeting , Rotterdam, lightning talk and poster	2019
BICISMRM Annual Meeting , Sheffield, presentation	2019
4th MS Society Edinburgh Centre for MS Research Meeting , Edinburgh, invited talk	2019
Northern Connections in MS Conference 2019 , Edinburgh, attended	2019
ISMRM 27th Annual Meeting & Exhibition , Montréal, poster	2019
Edinburgh Imaging Conference , Edinburgh, poster	2017
Neuroscience Workshop Saclay: Neural Circuits and Behavior , Paris, poster	2017
British Psychological Society Undergraduate Conference , Glasgow, presentation	2015

SOFTWARE

York, EN, Thrippleton, MJ, Waldman, A (2020) Magnetisation transfer saturation (MTsat) processing, [software]. University of Edinburgh. Centre for Clinical Brain Sciences. <https://doi.org/10.7488/ds/2965>.

OTHER EMPLOYMENT

Cashier (PT) Waitrose, Edinburgh, UK	Sept '20 – Apr '21
Salesperson (FT) French CanCan Boutique, Carcassonne, France	Apr '13 – Sept '13
English Language Teaching Assistant (PT) British Council, Carcassonne, France	Oct '12 – Apr '13
Customer Service Assistant (PT) Sainsbury's Local, Glasgow, UK	Feb '12 – Aug '12
Telephone Advisor (PT volunteer) Citizens Advice Direct, Glasgow, UK	Mar '12 – July '12
Housekeeper (FT then PT) Blythswood Square Hotel, Glasgow, UK	Oct '09 – July '11
Customer Service Assistant (PT) Subway Sandwiches, Glasgow, UK	Aug '08 – Aug '09