Hao-Ting Wang, PhD

Postdoctral Researcher in neuroimaging and neuroinformatics

Centre de recherche de l'Institut universitaire de gériatrie de Montréal (CRIUGM)

Montréal, Quebéc, Canada

RESEARCH POSITIONS

Postdoctral Researcher Sept. 2021 – Present
Centre de recherche de l'Institut universitaire de gériatrie de Montréal (CRIUGM) *Montréal, QC, Canada*

Principal Investigators: Prof Pierre Bellec, Prof Louis De Beaumont
Data infrastructure for neuroimaging research and Alzheimer's neural biomarker discovery.

Research Fellow Sept. 2019 – Aug. 2021
Sackler Centre for Consciousness Science, University of Sussex *Brighton, United Kingdom*

Principal Investigators: Prof Hugo Critchley, Prof Sarah Garfinkle
Cognitive processes in psychiatric conditions with neuroimaging and physiology measures.

Postdoctoral Research Associate Nov. 2018 – Aug. 2019
University of York *York, United Kingdom*

Principal Investigator: Prof Jonathan Smallwood
Working on the European Research Council funded project—Wandering Minds

Research Administrator Oct. 2015 – Oct. 2018
University of York *York, United Kingdom*

Principal Investigators: Prof Jonathan Smallwood and Prof Elizabeth Jefferies
Experiment design, project management, neuroimaging analysis pipeline development

EDUCATION

PhD in Cognitive Neuroscience and Neuroimaging Sept. 2015 – Dec. 2018
University of York *York, United Kingdom*

Supervisors: Prof Jonathan Smallwood and Prof Elizabeth Jefferies
Thesis: "*Towards an Ontology of Ongoing Thought*"

Master of Research in Psychology Sept. 2013 – Sept. 2014
University of York *York, United Kingdom*

BSc in Psychology Sept. 2009 – June 2013
National Chengchi University *Taipei, Taiwan*

AWARDS

2017	Travel Award	Guarantors of Brain	£600
2016	Travel Award	Brainhack Vienna	$500
2014	Department Summer Bursary Award	University of York	£1000

SELECTED PUBLICATIONS

INVITED TALKS

2021	Panel speaker at University of Texas Brainstorms
2021	Panel speaker at SciPy2021 Biology and Neuroscience mini-symposium
2021	Canonical correlation analysis application in neuroimaging data, Queen's University, Kingston, Canada
2019	Recent trend in resting-state functional connectivity, University of Sussex, Brighton, UK
2019	Data simulation workshop, University of York, York, UK
2019	Multivariate mapping of functional brain and behaviour, Child Mind Institute, New York, USA
2018	Small steps to reproducible science, University of York, York, UK

OPEN SOURCE SOFTWARE CONTRIBUTIONS

- NiLearn: Core developer.
- load_confounds: Core developer.
- Brainhack book: csv to markdown table parser for website and code review.
- Pydra-FSL: FSL wrapped with python workflow engine; nipype 1 to pydra interface converter.
- NiBable: GIFTI data reading method

TECHNICAL EXPERTISE

Overview: Functional magnetic resonance imaging, neuroinformatics, multivariate analysis.

Technologies

Neuroimaging: FSL, fMRIPrep, Freesurfer, Connectome Workbench, Brain Image Data Structure (BIDS), nipype
Statistics: nilearn, scikit-learn, JASP
Experiment design: PsychoPy
Research computing: container (docker, singularity), cluster computing (SGE), version control (git, github)

Programming Languages

Proficient: Python2/3, shell. Competent: LaTeX, MATLAB. Familiar: R, JavaScript.

MENTORING EXPERIENCE

PhD

2019–2021	Will Strawson	University of Sussex (with Prof. Sarah Garfinkle)

MSc

2019	Bronte McKeown, Will Strawson	University of York (with Prof. Jonathan Smallwood)
2018	Delali Konu, Rebecca Lowndes	University of York (with Dr. Charlotte Murphy and Prof. Jonathan Smallwood)

TEACHING EXPERIENCE

OHBM Brainhack   June 2020

Brain Image Data Structure teaching assistant.

University of York   October – March 2016
Programming in Neuroimaging   *York, United Kingdom*

Teaching assistant: Basic Python, data visualisation, PsychoPy, data analysis, and shell scripting.

PROFESSIONAL DEVELOPMENT

Aug. 2019	Neurohackademy, Seattle, USA.
Dec. 2017	Large-scale trends in cortical organization, Leipzig, Germany.
June 2017	Machine Learning Summer School, Tübingen, Germany.
Sep. 2016	Brainhack Vienna, Vienna, Austria.
Feb. 2016	Brainhack@Paris, Paris, France.

PROFESSIONAL SERVICE

Oct. 2021 – Present	Hackathon Chair, Open Science special interest group, Organization of Human Brain Mapping
Mar. 2020 – Aug. 2021	ECR representative, Sussex Neuroscience Steering Committee, University of Sussex
Jun. 2021	OHBM Sparkle special task force, OHBM, virtual.
Jun. 2021	Live Q & A cohost and general enquiry, OHBM Brainhack, virtual.
Jun. 2020	Teaching assistant, OHBM Brainhack, virtual.
Oct. 2018 – Aug. 2019	Member, Open Science Interest Group, University of York
Oct. 2018 – Aug. 2019	Member, Early Career Researcher forum, University of York
Mar. 2017	Organizing committee, Brainhack York, York, UK.

AD-HOC PEER REVIEW

Advances in Methods and Practices in Psychological Science, Brain Imaging and Behavior, Journal of Open Source Software, NeuroImage, Neuroinformatics, Neurobiology of Aging

MEMBERSHIP

Organization of Human Brain Mapping (OHBM); Open Science Special Interest Group, OHBM.

Last updated: November 16, 2021