

Hao-Ting Wang, PhD

Postdoctoral Researcher in neuroimaging and neuroinformatics

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

RESEARCH POSITIONS

Postdoctoral Researcher

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

Sept. 2021 – Present
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

Sackler Centre for Consciousness Science, University of Sussex

Sept. 2019 – Aug. 2021
Brighton, United Kingdom

Principal Investigators: Prof Hugo Critchley, Prof Sarah Garfinkle

Cognitive processes in psychiatric conditions with neuroimaging and physiology measures.

Postdoctoral Research Associate

University of York

Nov. 2018 – Aug. 2019
York, United Kingdom

Principal Investigator: Prof Jonathan Smallwood

Working on the European Research Council funded project—Wandering Minds

Research Administrator

University of York

Oct. 2015 – Oct. 2018
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

University of York

Sept. 2015 – Dec. 2018
York, United Kingdom

Supervisors: Prof Jonathan Smallwood and Prof Elizabeth Jefferies

Thesis: “Towards an Ontology of Ongoing Thought”

Master of Research in Psychology

University of York

Sept. 2013 – Sept. 2014
York, United Kingdom

BSc in Psychology

National Chengchi University

Sept. 2009 – June 2013
Taipei, Taiwan

AWARDS

2022	UNIQUE Excellence Scholarship	Unifying Neuroscience and Artificial Intelligence - Québec (UNIQUE)	CA\$ 20,000
2022	Postdoctoral scholarship	Institut de valorisation des données (IVADO)	CA\$ 70,000
2017	Travel Award	Guarantors of Brain	
2016	Travel Award	Brainhack Vienna	
2014	Department Summer Bursary Award	University of York	

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; nipy 1 to pydra interface converter.
- [NiBabel](#): 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), nipy

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

UNIQUE educational workshop

November 2021

Instructor of the two day neuro-AI workshop.

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: April 25, 2022