

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 AND SCHOLARSHIPS

Postdoctoral scholarship

Institut de valorisation des données (IVADO)

May 2022 – Apr. 2024
CA\$ 70,000

Project: Impact of age and sex on transdiagnostic brain biomarkers amongst neurodegenerative conditions

UNIQUE Excellence Scholarship

Unifying Neuroscience and Artificial Intelligence - Québec (UNIQUE)

May 2022 – Apr. 2023
CA\$ 20,000

Project: Impact of age and sex on transdiagnostic brain biomarkers amongst neurodegenerative conditions

Awards

2017 Travel Award (£600)

Guarantors of Brain

2016 Travel Award (\$500)

Brainhack Vienna

2014 Department Summer Bursary Award (£1000)

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 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