Hao-Ting Wang, PhD

Research Fellow

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RESEARCH POSITIONS

Research Fellow 2019 – Present
Brighton and Sussex Medical School, University of Sussex *Brighton, United Kingdom*
PI: Prof Hugo Critchley

Postdoctoral Research Associate 2018 – 2019
University of York *York, United Kingdom*
Working on the ERC grant project—Wandering Minds

Research Administrator 2015 – 2018
University of York *York, United Kingdom*
Experiment design, project management, neuroimaging analysis pipeline development

Research Assistant 2015
National Taiwan University *Taipei, Taiwan*
Project: Attention regulation in children with Tourette syndrome
Experiment design, data collection and analysis

EDUCATION

PhD in Cognitive Neuroscience and Neuroimaging 2015 – 2018
University of York *York, United Kingdom*
Prof. Jonathan Smallwood and Prof. Elizabeth Jefferies
Thesis: "*Towards an Ontology of Ongoing Thought*"

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

BSc in Psychology 2009 – 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

PUBLICATIONS

Preprints

[1] H.-T. **Wang**, J. Smallwood, J. Mourao-Miranda, C. H. Xia, T. D. Satterthwaite, D. S. Bassett, and D. Bzdok, "Finding the needle in a high-dimensional haystack: A tutorial on canonical correlation analysis," *arXiv:1812.02598*, 2018.

Peer-Reviewed Journals

[1] C. Murphy, H.-T. **Wang**, D. Konu, R. Lowndes, D. S. Margulies, E. Jefferies, and J. Smallwood, "Modes of operation: A topographic neural gradient supporting stimulus dependent and independent cognition," *NeuroImage*, vol. 186, pp. 487–496, 2019.

[2] A. Turnbull, H.-T. **Wang**, J. W. Schooler, E. Jefferies, D. S. Margulies, and J. Smallwood, "The ebb and flow of attention: Between-subject variation in intrinsic connectivity and cognition associated with the dynamics of ongoing experience," *NeuroImage*, vol. 185, pp. 286–299, 2019.

[3] M. Sormaz, C. Murphy, H.-T. **Wang**, M. Hymers, T. Karapanagiotidis, G. Poerio, D. Margulies, E. Jefferies, and J. Smallwood, "The default mode network can support the level of detail in experience during active task states," *Proceedings of the National Academy of Sciences*, 8 2018.

[4] H.-T. **Wang**, D. Bzdok, D. Margulies, C. Craddock, M. Milham, E. Jefferies, and J. Smallwood, "Patterns of thought: population variation in the associations between large-scale network organisation and self-reported experiences at rest," *Neuroimage*, vol. 176, pp. 518–527, 8 2018.

[5] C. Murphy, E. Jefferies, S.-A. Rueschemeyer, M. Sormaz, H.-T. **Wang**, D. Margulies, and J. Smallwood, "Distant from input: Evidence of regions within the default mode network supporting perceptually-decoupled and conceptually-guided cognition," *NeuroImage*, vol. 171, pp. 393–401, 5 2018.

[6] M. Villena-Gonzalez, H.-T. **Wang**, M. Sormaz, G. Mollo, D. Margulies, E. Jefferies, and J. Smallwood, "Individual variation in the propensity for prospective thought is associated with functional integration between visual and retrosplenial cortex," *Cortex*, vol. 99, pp. 224 – 234, 2 2018.

[7] H.-T. **Wang**, G. L. Poerio, C. Murphy, D. Bzdok, E. Jefferies, and J. Smallwood, "Dimensions of Experience: Exploring the Heterogeneity of the Wandering Mind," *Psychological Science*, vol. 29, no. 1, pp. 56–71, 1 2018.

[8] D. Vatansever, D. Bzdok, H.-T. **Wang**, G. Mollo, M. Sormaz, C. Murphy, T. Karapanagiotidis, J. Smallwood, and E. Jefferies, "Varieties of semantic cognition revealed through simultaneous decomposition of intrinsic brain connectivity and behaviour," *NeuroImage*, vol. 158, pp. 1–11, 9 2017.

[9] G. L. Poerio, M. Sormaz, H.-T. **Wang**, D. Margulies, E. Jefferies, and J. Smallwood, "The role of the default mode network in component processes underlying the wandering mind," *Social Cognitive and Affective Neuroscience*, vol. 12, no. 7, 7 2017.

[10] J. Sanders, H.-T. **Wang**, J. Schooler, and J. Smallwood, "Can I get me out of my head? Exploring strategies for controlling the self-referential aspects of the mind-wandering state during reading," *The Quarterly Journal of Experimental Psychology*, pp. 1–27, 6 2016.

[11] J. Smallwood, T. Karapanagiotidis, F. Ruby, B. Medea, I. de Caso, M. Konishi, H.-T. **Wang**, G. Hallam, D. S. Margulies, and E. Jefferies, "Representing representation: Integration between the temporal lobe and the posterior cingulate influences the content and form of spontaneous thought," *PLOS ONE*, vol. 11, no. 4, pp. 1–19, 4 2016.

Conferences Presentations

[1] H.-T. Wang, E. Jefferies, and J. Smallwood, "Inhibition of prior mental content contributes to content representation of on-going thoughts." Montreal, Canada: RSBC, 9 2018.

[2] H.-T. Wang, D. Bzdok, D. Margulies, C. Craddock, M. Milham, E. Jefferies, and J. Smallwood, "Decomposing self-reports of experience at rest with brain connectivity reveals links to intelligence." Singapore: OHBM, 6 2018.

[3] H.-T. Wang, G. L. Poerio, C. Murphy, D. Bzdok, E. Jefferies, and J. Smallwood, "Dimensions of experience: Exploring the heterogeneity of the wandering mind." Amsterdam, Netherlands: ICON, 8 2017.

[4] H.-T. Wang, D. Bzdok, C. Murphy, D. Vatansever, G. L. Poerio, J. Smallwood, and E. Jefferies, "Component processes and the wandering mind: Links between spontaneous thought contents, task performance and resting state brain connectivity." Vienna, Austria: RSBC, 9 2016.

SOFTWARE AND PROGRAMMING SKILLS

Brain Imaging	FSL, Freesurfer, Connectome Workbench, C-PAC, CONN, nipype
Programming Language	Python, Bash, R, MATLAB
Research Computing	High performance clusters (SGE), version control (git), AWS
Operating Systems	Linux, Windows
Experiment Design	PsychoPy

MENTORING EXPERIENCE

2019	Bronte McKeown	University of York	Master student
2019	Will Strawson	University of York	Master student
2018	Delali Konu	University of York	Master student, authored one paper
2018	Rebecca Lowndes	University of York	Master student, authored one paper

TEACHING EXPERIENCE

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

Teaching assistant. Topics covered basic Python, data visualization, PsychoPy, data analysis and shell scripting.

PROFESSIONAL SERVICE

Leadership Positions
Mar. 2017 Organizing committee, Brainhack York, York, UK.

Ad-hoc Peer Review
NeuroImage, Advances in Methods and Practices in Psychological Science, Brain Imaging and Behavior, Neuroinformatics

Membership
Open Science Interest Group, University of York
Organization of Human Brain Mapping

PROFESSIONAL DEVELOPMENT

Aug. 2019	Neurohackadmey, Seattle, USA.
Dec. 2017	Gradient workshop, Leipzig, Germany.
June 2017	Machine Learning Summer School, Tübingen, Germany.
Sep. 2016	Brainhack Vienna, Vienna, Austria.
Feb. 2016	Brainhack@Paris, Paris, France.

Last updated: August 19, 2019