

# HAO-TING WANG

haoting.wang@york.ac.uk | <https://htwangtw.github.io/>

## EDUCATION

---

- 2015 – 2018 **Ph.D. in Cognitive Neuroscience and Neuroimaging**  
(Expected) University of York. (*York, United Kingdom*)  
Supervisors: Prof. Jonathan Smallwood and Prof. Elizabeth Jefferies  
Thesis: “Towards an Ontology of Ongoing Thought”
- 2013 – 2014 **Master of Research in Psychology**  
University of York. (*York, United Kingdom*)
- 2009 – 2013 **BSc in Psychology**  
National Cheng-Chi University. (*Taipei, Taiwan*)

## GRANTS

---

- 2017 **Guarantors of Brain Travel Award, £600**  
Received funding to attend Machine Learning Summer School, Tübingen, Germany.
- 2016 **Brainhack Travel Award, \$500**  
Received funding to attend Brainhack Vienna.
- 2014 **Department Summer Bursary Award, £1000**  
Summer Internship under the supervision of Prof. Smallwood. (York, United Kingdom)

## SKILLS

---

<b>Languages</b>	Mandarin Chinese( <b>Native</b> ), English( <b>Fluent</b> )
<b>Experiment design</b>	PsychoPy, PyGame
<b>Neuroimage analysis</b>	FSL, NiLearn, Freesurfer, CONN
<b>Programming</b>	Python, R, Bash, L <sup>A</sup> T <sub>E</sub> X, Git, MATLAB
<b>Research computing</b>	Version control (git, github), grid computing (Sun Grid Engine)
<b>Operating System</b>	Windows, GNU/Linux

## RECENT RESEARCH EXPERIENCE

---

- University of York** October 2015 – Present  
*Research Administrator* *York, United Kingdom*
- *Experiment design*: build a battery of cognitive functions assessment tasks and standardize the main paradigm used in the lab.
  - *Project management*: overlook the project schedule, participant recruitment, experimenter training and data management.
  - *Neuroimaging analysis pipeline*: build analysis pipelines with Python machine-learning libraries Scikit-learn and Nilearn.
- National Taiwan University** June – August 2015  
*Research Assistant* *Taipei, Taiwan*
- Top university of psychology research in Taiwan
  - Collaborated with the National Taiwan University Children's Hospital.
  - *Project management*: Scripted behavioral experiment, data collection, data analysis.

## RECENT TEACHING EXPERIENCE

---

- University of York** October – March 2016  
*Programming in Neuroimaging* *York, United Kingdom*
- Assist the lecturer during lectures, topics covered basic Python, data visualisation, programming experiments, neuroimaging data analysis and shell scripting with bash.
  - Answer students' questions in practical sessions.

## Articles

- Sormaz, M., C. Murphy, H.-T. Wang, M. Hymers, T. Karapanagiotidis, G. Poerio, D. Margulies, E. Jefferies, and J. Smallwood (2018). “The default mode network can support the level of detail in experience during active task states”. In: *Proceedings of the National Academy of Sciences*. DOI: 10.1073/pnas.1721259115.
- Wang, H.-T., D. Bzdok, D. Margulies, C. Craddock, M. Milham, E. Jefferies, and J. Smallwood (2018a). “Patterns of thought: population variation in the associations between large-scale network organisation and self-reported experiences at rest”. In: *Neuroimage* 176, pp. 518–527. DOI: 10.1016/j.neuroimage.2018.04.064.
- Murphy, C., E. Jefferies, S.-A. Rueschemeyer, M. Sormaz, H.-T. Wang, D. Margulies, and J. Smallwood (2018). “Distant from input: Evidence of regions within the default mode network supporting perceptually-decoupled and conceptually-guided cognition”. In: *NeuroImage* 171, pp. 393–401. DOI: 10.1016/j.neuroimage.2018.01.017.
- Villena-Gonzalez, M., H.-T. Wang, M. Sormaz, G. Mollo, D. Margulies, E. Jefferies, and J. Smallwood (2018). “Individual variation in the propensity for prospective thought is associated with functional integration between visual and retrosplenial cortex”. In: *Cortex* 99, pp. 224–234. DOI: 10.1016/j.cortex.2017.11.015.
- Wang, H.-T., G. L. Poerio, C. Murphy, D. Bzdok, E. Jefferies, and J. Smallwood (2018). “Dimensions of Experience: Exploring the Heterogeneity of the Wandering Mind”. In: *Psychological Science* 29.1, pp. 56–71. DOI: 10.1177/0956797617728727.
- Vatansever, D., D. Bzdok, H.-T. Wang, G. Mollo, M. Sormaz, C. Murphy, T. Karapanagiotidis, J. Smallwood, and E. Jefferies (2017). “Varieties of semantic cognition revealed through simultaneous decomposition of intrinsic brain connectivity and behaviour”. In: *NeuroImage* 158, pp. 1–11. ISSN: 10538119. DOI: 10.1016/j.neuroimage.2017.06.067.
- Poerio, G. L., M. Sormaz, H.-T. Wang, D. Margulies, E. Jefferies, and J. Smallwood (2017). “The role of the default mode network in component processes underlying the wandering mind”. In: *Social Cognitive and Affective Neuroscience* 12.7. ISSN: 1749-5016. DOI: 10.1093/scan/nsx041.
- Sanders, J., H.-T. Wang, J. Schooler, and J. Smallwood (2016). “Can I get me out of my head? Exploring strategies for controlling the self-referential aspects of the mind-wandering state during reading”. In: *The Quarterly Journal of Experimental Psychology*, pp. 1–27. ISSN: 1747-0218. DOI: 10.1080/17470218.2016.1216573.
- Smallwood, J., T. Karapanagiotidis, F. Ruby, B. Medea, I. de Caso, M. Konishi, H.-T. Wang, G. Hallam, D. S. Margulies, and E. Jefferies (2016). “Representing Representation: Integration between the Temporal Lobe and the Posterior Cingulate Influences the Content and Form of Spontaneous Thought”. In: *PLOS ONE* 11.4, pp. 1–19. DOI: 10.1371/journal.pone.0152272.

## Conferences

- Wang, H.-T., E. Jefferies, and J. Smallwood (2018). “Inhibition of prior mental content contributes to content representation of on-going thoughts”. In: RSBC. Montreal, Canada.
- Wang, H.-T., D. Bzdok, D. Margulies, C. Craddock, M. Milham, E. Jefferies, and J. Smallwood (2018b). “Decomposing self-reports of experience at rest with brain connectivity reveals links to intelligence”. In: OHBM. Singapore.
- Wang, H.-T., G. L. Poerio, C. Murphy, D. Bzdok, E. Jefferies, and J. Smallwood (2017). “Dimensions of experience: Exploring the heterogeneity of the wandering mind”. In: ICON. Amsterdam, Netherlands.
- Wang, H.-T., D. Bzdok, C. Murphy, D. Vatansever, G. L. Poerio, J. Smallwood, and E. Jefferies (2016). “Component processes and the wandering mind: Links between spontaneous thought contents, task performance and resting state brain connectivity”. In: RSBC. Vienna, Austria.

## PROFESSIONAL DEVELOPMENT

---

June 2017	Machine Learning Summer School, Tübingen, Germany.
Mar. 2017	<b>Organizing committee</b> , Brainhack York, York, UK.
Sep. 2016	Brainhack Vienna, Vienna, Austria.
Feb. 2016	Brainhack@Paris, Paris, France.