

Jörn Alexander Quent, PhD.

Post doctoral research associated with Fudan University
ISTBI · Building No. 825, Zhangheng Road, Shanghai, China

✉ jaquent@fudan.edu.cn 🌐 [jaquent](#) 🌐 [jaquent.me](#)

Education & Academic Positions

<i>Fudan University</i> (China) Postdoctoral research associate	2021 - now
Institute of Science and Technology for Brain-inspired Intelligence (ISTBI)	
PI: Deniz Vatansever	
<i>University of Cambridge</i> (UK), PhD in Biological Sciences at MRC CBU	2017 - 2021
MRC Cognition and Brain Sciences Unit (MRC CBU)	
PI: Rik Henson	
College: Clare Hall	
<i>Ruhr-University Bochum</i> (GER), M.Sc. Psychology and Cognitive Neuroscience	2015 - 2017
<i>University of Nebraska - Omaha</i> (US), Term abroad in Psychology	2014
<i>Ruhr-University Bochum</i> (GER), B.Sc. Psychology	2012 - 2015

Grants, Fellowships, Scholarships & Honours

<i>The National Foreign Experts Program</i>	2023 - 2024
State Administration of Foreign Experts Affairs	
<i>Research Fund For International Young Scientists (RFIS-I)</i>	2023 - 2024
National Natural Science Foundation of China (NSFC), China	
Amount: 400,000 RMB (\$56,000/57,000€) for two years	
<i>Fellowship of China Postdoctoral Science foundation</i>	2022
China Postdoctoral Science foundation	
Amount: 80,000 RMB (\$11,080/10,200€)	
<i>Zhufeng young scholar</i>	2021
Fudan University - Ministry of Education Frontiers Center for Brain Science	
<i>Postdoctoral international exchange program</i> (博士后国际交流计划)	2021
China Postdoctoral Management Committee (中国博士后管理委员会), China	
<i>Grindley Grant</i> to travel to Beijing (China)	2019
Experimental Psychology Society (cancelled due to the COVID-19 pandemic)	
<i>Gates Cambridge Scholarship</i>	2017 - 2021
Melinda and Bill Gates Foundation, USA	
<i>University of Nebraska – Omaha’s Chancellor’s list</i>	2014
<i>Scholarship for a term abroad</i>	2014

Publications

Journal Articles & Preprints

Raza, S., Schomaker, S. **Quent, J. A.**, Anderson M. C. & Henson, R. N. (2025). Proactive and retroactive effects of novelty and rest on memory. *Quarterly Journal of Experimental Psychology*, 17470218251346156. <https://doi.org/10.1177/17470218251346156>

Tibon, R., Greve, A., Humphreys, G. **Quent, J. A.** & Henson, R. N. (Registered Report: Stage 1 accepted). Do activations and representations differ during successful retrieval from episodic versus semantic memory? *Nature Human Behavior*.

Quent, J. A., Greve, A. & Henson, R. N. (2022). Shape of U: The Nonmonotonic Relationship Between Object–Location Memory and Expectedness. *Psychological Science*. <https://doi.org/10.1177/09567976221109134>, Pre-print version can be found <https://doi.org/10.31234/osf.io/xq37j>

Quent, J. A. & Henson, R. N. (2022). Novel immersive virtual reality experiences do not produce retroactive memory benefits for unrelated material. *Quarterly Journal of Experimental Psychology*, 1 – 14. <https://doi.org/10.1177/17470218221082491>

Quent, J. A., Henson, R. N., Greve, A. (2021). A predictive account of how novelty influences declarative memory. *Neurobiology of Learning and Memory*. <https://doi.org/10.1016/j.nlm.2021.107382>

Goodrich, R. I., Baer, T. L., **Quent, J. A.**, & Yonelinas, A. P. (2019). Visual working memory impairments for single items following medial temporal lobe damage. *Neuropsychologia*, 134. <http://doi.org/10.1016/j.neuropsychologia.2019.107227>

Quent, J. A., McCullough, A. M., Sazma, M., Wolf, O. T., & Yonelinas, A. P. (2018). Reward anticipation modulates the effect of stress-related increases in cortisol on episodic memory. *Neurobiology of Learning and Memory*, 147, 65–73. <https://doi.org/10.1016/J.NLM.2017.11.007>

Software

Quent, J. A. (2025). Object Location Memory Task [Computer software]. <https://github.com/JAQuent/Object-Location-Memory-Task>

Quent, J. A. (2022). Questionnaire Presenter - A standalone program to collect questionnaire

data made with Unity3D (Version 1.0.0) [Computer software]. <https://doi.org/10.5281/zenodo.7180407>

Quent, J. A. (2021). Mental rotation task for MATLAB (Version 1.11) [Computer software]. <https://doi.org/10.5281/zenodo.5502450>

Quent, J. A. (2021). N-back task for MATLAB (Version 1.8) [Computer software]. <https://doi.org/10.5281/zenodo.5502474>

Talks

Precise mapping of the neural landscape underlying recognition memory 26th June 2025
OHBM
Brisbane, Australia

Graded encoding of spatial novelty scales in the human hippocampus 20th May 2025
Spring Hippocampal Research Conference
Verona, Italy

Spatial novelty-familiarity gradient in the hippocampus using VR and ultra-high-field fMRI 15th December 2023
BISA Meeting
Fudan University, Shanghai

Influence of conceptual knowledge on spatial memory in a virtual reality environment 29th May 2023
Spring Hippocampal Research Conference
Verona, Italy

Neural signatures of spatial navigation & memory using ultra-high-resolution 7T fMRI 14th December 2022
Fudan Cambridge Symposium
Fudan University, Shanghai

Where PIMMS fails: limitations with our framework for memory 26th January 2022
Wednesday Lunch Time Seminar
University of Cambridge
MRC Cognition and Brain Sciences Unit

Neuroimaging of mental navigation using virtual reality environments 15th December 2021
Post-doc introduction talk
Fudan University
ISTBI

Power Between the People: Bayesian Sequential Designs 30th November 2020
Methods day

University of Cambridge
MRC Cognition and Brain Sciences Unit
https://www.youtube.com/watch?v=mF-MPO__jWo
Plan to produce strong evidence: Bayesian Sequential Designs 8th September 2020
Open Research Working Group (ORWG) virtual meeting hosted by British Neuroscience Association
Link: https://www.youtube.com/watch?v=FGaxLQ_o8D4

Bayesian Sequential Designs 29th July 2020
Open Science Day
University of Cambridge
MRC Cognition and Brain Sciences Unit

Bayesian multilevel models 11th November 2019
Imaging Interest Group
University of Cambridge
MRC Cognition and Brain Sciences Unit
Link: <https://osf.io/f56bw/>

Using immersive virtual reality to examine the U-shaped relationship between schema and memory performance 15th May 2019
Wednesday Lunch Time Seminar
University of Cambridge
MRC Cognition and Brain Sciences Unit

Using immersive reality to examine the U-shaped relationship between schema and memory performance 4th April 2019
Cambridge Memory Meeting
University of Cambridge

U-shaped relationship between object-location expectancy and memory performance in an immersive reality environment 3rd Jan 2019
Annual meeting of the Experimental Psychology Society
London

Open notebooks in cognitive neuroscience 20th Nov 2018
Open Science Day
University of Cambridge
MRC Cognition and Brain Sciences Unit
Link: https://www.youtube.com/watch?v=jKmv3-Nk8iE&ab_channel=MRCCBU

Using RMarkdown to create scientific manuscripts 5th Dec 2017
Methods day
University of Cambridge

MRC Cognition and Brain Sciences Unit

Interaction between reward anticipation and stress hormone during memory formation 1st Nov 2017

Gates Cambridge internal symposium

Reward anticipation modulates the effect of cortisol on memory 1st Jan 2017

Research colloquium “Cognitive Psychology and Psychoneuroendocrinology”

Ruhr-University Bochum

Faculty of Psychology

Posters

Quent, J. A., Zhuang, K., Liang X., Wang, Y., Vatansever, D. (June 2025). Precise mapping of the neural landscape underlying recognition memory. *OHBM*, Brisbane (Australia).

Quent, J. A., Liang X., Song, L., Su, Y., Zhuang, K., Vatansever, D. (June 2024). A gradient of spatial novelty and familiarity along the hippocampal long axis. *OHBM*, Seoul (South Korea).

Quent, J. A., Liang X., Song, L., Su, Y., Vatansever, D. (June 2023). Spatial Memory Within Virtual Reality Environments: An Ultra-High Field 7T fMRI Investigation. *OHBM*, Montreal (Canada).

Quent, J. A., Henson, R. N. (April 4, 2019). Using hydrocortisone to modulate the U-shape between expectancy and memory. *BNA 2019 Festival of Neuroscience*, Dublin (Ireland).

Quent, J. A., Meyer, M. Ros, T., Kuchinke, L. (May 31, 2018). Reading prevails: automatic word recognition in a single-letter Stroop task. *Psychologie und Gehirn 2018*, Gießen (Germany).

Meyer, M., Manrique Aristizabal, J. A., **Quent, J. A.**, Crawford, B., & Vuilleumier, P. (May 11, 2018). Regulating With The Mind’s Eye: The Link Between Mental Imagery And Emotion Regulation. *36. Symposium der Fachgruppe Klinische Psychologie und Psychotherapie der DGPs*, Landau (Germany).

Quent, J. A., McCullough, A. M., Sazma M., Wolf O. T., Yonelinas A. P. (March 12, 2018). Tag-and-capture theory in light of reward anticipation and post-encoding stress. *Cambridge Neuroscience Seminar 2018*, Cambridge (United Kingdom).

Theses

Reward anticipation modulates the effect of cortisol on memory, M.Sc. 2017

Supervisors: Oliver T. Wolf & Uta Wiemers

Grade: 1.0

Reading prevails: the electrophysiological signature of semantic access in a Stroop task, B.Sc. 2015

Supervisors: Lars Kuchinke & Marcel Meyer
Grade: 1.0

Research Experience & Employment

<i>Research assistant</i>	Oct 2015 - Sep 2016
Ruhr-University Bochum	
Supervisors: Lars Kuchinke & Marcel Meyer	
<i>Visiting scholar</i>	Feb 2016 - May 2016
UC Davis	
Department of Psychology	
Human Memory Lab	
Supervisor: Andrew Yonelinas	
<i>Undergraduate research assistant</i>	Feb 2015 - Sep 2015
Ruhr-University Bochum	
Supervisor: Oliver T. Wolf	
<i>Undergraduate research assistant</i>	Feb 2015 - Sep 2015
Ruhr-University Bochum	
Supervisor: Lars Kuchinke	
<i>Internship</i>	2014
St. Joseph Hospital Bochum	
Neurological Clinic of the Ruhr-University Bochum	
Supervisor: Christian Prehn	

Teaching

<i>Undergraduate supervisor</i>	Apr 2020 - Jun 2020
PBS4: Psychology and Cognitive Neuroscience	
University of Cambridge	
Corpus Christi College	
<i>Undergraduate supervisor</i>	Jan 2020 - Mar 2020
PBS4: Psychology and Cognitive Neuroscience	
University of Cambridge	
Corpus Christi College	
<i>Undergraduate supervisor</i>	Oct 2019 - Dec 2019
PBS4: Psychology and Cognitive Neuroscience	
University of Cambridge	
Corpus Christi College	
<i>Tutor</i>	Jul 2019

Neuroscience	
Oxford Summer Courses	
<i>Undergraduate supervisor</i>	Jan 2019 - Mar 2019
PBS4: Psychology and Cognitive Neuroscience	
University of Cambridge	
Corpus Christi College	
<i>Undergraduate supervisor</i>	Oct 2018 - Dec 2019
PBS4: Psychology and Cognitive Neuroscience	
University of Cambridge	
Corpus Christi College	
<i>Tutor</i>	Jul 2018
Neuroscience	
Oxford Summer Courses	
<i>Undergraduate supervisor</i>	Jan 2018 - Mar 2018
PBS4: Psychology and Cognitive Neuroscience	
University of Cambridge	
Wolfson College	
<i>Teaching staff</i>	Oct 2015 - Feb 2016
Introductory course for R (seminar)	
Ruhr-University Bochum	
Faculty of Psychology	
<i>Teaching assistant</i>	Apr 2014 - Sep 2014
Tutorial for 2nd year statistics	
Ruhr-University Bochum	
Faculty of Psychology	

Adhoc reviews for academic journals

Neurobiology of Learning and Memory
 Brain and Cognition
 Behavior Research Methods
 Memory
 PlosOne
 Learning and Memory
 Philosophical Transactions B
 Quarterly Journal of Experimental Psychology

Organisation of events

BISA partnership

First virtual “Cambridge Fudan ECR Cognitive Neuroscience Symposium” (2020)

“Open Science Day 2018” at the MRC CBU, Cambridge

Current and former memberships in professional societies

British Neuroscience Association

OHBM