

# RoniTibon ph.d

Human Memory | Cognitive Ageing | Neuroimaging

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School of Psychology, University of Nottingham, UK

## Employment

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- 2022 – Present* ○ **Assistant Professor**  
School of Psychology, University of Nottingham (UK)
- 2015 – 2022* ○ **Research Fellow (promoted to Senior Research Associate in 2021)**  
Funded by a Royal Society Newton International Fellowship (2015-2017) and by a British Academy Postdoctoral Fellowship (2018-2022)  
MRC Cognition and Brain Sciences Unit (CBU), Cambridge (UK), with Prof. Richard Henson
- 2012 – 2015* ○ **Postdoctoral Fellow**  
Sagol Unit for Applied Neuroscience / The School of Psychology, Reichman University (Israel), with Prof. Daniel A. Levy
- 2009 – 2012* ○ **Lab Manager**  
Sagol Unit for Applied Neuroscience / The School of Psychology, Reichman University (Israel), with Prof. Daniel A. Levy
- 2008 – 2012* ○ **Doctoral Research**  
The Electromagnetic (MEG) Brain Imaging Unit / Psychology Department, Bar-Ilan University (Israel), with Prof. Eli Vakil and Prof. Abraham Goldstein

## Education

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- 2020 – 2022* ○ **City, University of London, London, UK**  
MSc in Data Science
- 2008 – 2013* ○ **Bar-Ilan University, Ramat Gan, Israel**  
Ph.D. in Psychology, supervised by Prof. Eli Vakil and Prof. Abraham Goldstein
- 2007 – 2009* ○ **Bar Ilan University, Ramat Gan, Israel**  
MA in Psychology (Cognition, Emotion, and Brain)
- 2003 – 2006* ○ **The Academic College of Tel Aviv Yaffo, Israel**  
B.A. in Behavioral Sciences

## Major Funding

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2017 – 2020	○	British Academy Postdoctoral Fellowship (success rate: under 10%)	£194,604
2016	○	L'Oréal-UNESCO Women in Science Award (1 of 2 fellowships granted in IL)	50,000 NIS
2015 – 2017	○	Royal Society Newton International Fellowship (success rate: 8%)	£100,774
2012 – 2015	○	Postdoctoral Scholarship, Reichman University	225,000 NIS
2008 – 2012	○	Bar-Ilan University President's Scholarship for Excelling Doctoral Students	192,000 NIS

## Recent Prizes and Awards

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2023	○	BNA's Credibility Prize for Individual Researcher
2020	○	Returning Carer Grant by the University of Cambridge
2018	○	British Academy Training and Dissemination Grant
2018	○	FENS Travel Grant
2016	○	MRC Recognition Award
2016	○	FENS award for a History of European Neuroscience project

## Teaching Experience

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2023	○	<b>University of Nottingham, Nottingham, UK</b> Personality and Individual Differences for UG (BSc) in Psychology (Lecturer)
2022 – 2023	○	<b>University of Nottingham, Nottingham, UK</b> Practical Methods for UG (BSc) in Psychology (Lecturer)
2014	○	<b>Reichman University, Herzliya, Israel</b> Descriptive and Inferential Statistics Bootcamp for PG (MA) in Organizational Behavior & Development (Lecturer).
2010 – 2014	○	<b>Reichman University, Herzliya, Israel</b> Advanced Statistics and Research Methods for PG (MA) in Organizational Behavior & Development (Instructor).
2011	○	<b>Bar-Ilan University, Ramat Gan, Israel</b> Cognitive Psychology Introduction for UG (BSc) in Neuroscience (Lecturer, maternity leave cover)
2007	○	<b>The Academic College of Tel Aviv Yaffo, Israel</b> Developmental Psychology for UG (BA) in Behavioral Science (Instructor)

## Academic Service

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### Editorial Roles

2018 - Action editor: Brain and Cognition

### Ad-Hoc Reviewer (Journals)

Alzheimer's Research & Therapy; Biological Psychology; Brain and Cognition; Frontiers in Human Neuroscience; International Journal of Psychophysiology; Journal of Neuroscience; Memory; Memory and Cognition; Neurobiology of Aging; Neuropsychologia; NeuroImage; PLoS One; Psychological Research; Scientific Reports; Quarterly Journal of Experimental Psychology

### Grant Reviewer

2020 - ISF Research Grant

### Recent Conference/Workshop Organisation

- 2023 ○ MEG Day: Interdisciplinary meeting for MEG users at UoN
- 2020/21 ○ Weekly departmental seminars at the CBU - Wednesday Lunchtime Seminar Series
- 2019 ○ Mixed-effects models workshop. Workshop materials: <https://osf.io/kgewp/>
- 2018 ○ The CBU's Open Science Day
- 2018 ○ The annual Cambridge Memory Meeting

## Media and Outreach

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- 2014 - 2020 ○ Correspondent and editorial board member in [Young Galileo](#) (a scientific magazine for young children). Authored and translated articles on various topics related to neuroscience.
- 2019 ○ BNA Bulletin: "Playing with words" - an article about my project that explores neuroscience within the classics of British literature
- 2018 ○ The MRC blog *Insight*: [A scientific meeting of the minds](#)
- 2017, 2018 ○ Demonstrated memory experiments to the general public at the [Cambridge Science Festival](#)
- 2017 ○ Creator of the online FENS exhibition [Brain Fiction: Neuroscience in British Literature](#)
- 2016 ○ Leading author of a paper in *Frontiers for Young Minds*: [When ONE is more than TWO: Increasing our Memory](#)
- 2015 ○ Provided work-experience guidance to 5 students
- 2014 ○ Co-organizer of the workshop "The three cycles of aging and the community": A joint workshop by Shalem (an association that arranges volunteering opportunities for older adults) and Reichman University.

## Journal Publications (\*corresponding author)

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- Lee, S. M., **Tibon, R.**, Zeidman, P., Yadav, P., & Henson, R. N. (2023). Effects of Face Repetition on Ventral Visual Stream Connectivity using Dynamic Causal Modelling of fMRI data. *NeuroImage*. doi: <https://doi.org/10.1016/j.neuroimage.2022.119708>
- Han, M., Li, B., Guo, C., & **\*Tibon, R.** (2022). Effects of emotion and semantic relatedness on recognition memory: Behavioral and electrophysiological evidence. *Psychophysiology*. doi: <https://doi.org/10.1111/psyp.14152>
- Humphreys, G. & **\*Tibon, R.** (2022). Dual-axes of functional organisation across lateral parietal cortex: the angular gyrus forms part of a multi-modal buffering system. *Brain Structure and Function*. doi: <https://doi.org/10.1007/s00429-022-02510-0>
- Vaghari, D., Fernandez, R. B., Hughes, L., Nesbitt, D., **Tibon, R.**, Rowe, J. B., Fernando Maestu, & Henson, R. N. (2022). A multi-site, multi-participant magnetoencephalography resting-state dataset to study dementia: The BioFIND dataset. *NeuroImage*. doi: <https://doi.org/10.1016/j.neuroimage.2022.119344>
- \*Tibon, R.**, Geerligs, L., & Campbell, K. (2022). Bridging the big (data) gap: Levels of control in small- and large-scale cognitive neuroscience research. *Trends in Neurosciences*. doi: <https://doi.org/10.1016/j.tins.2022.03.011>
- Niso, G., ..., **Tibon, R.**, ..., et al. (2022). Good scientific practice in MEEG research: Progress and perspectives. *NeuroImage*. doi: <https://doi.org/10.1016/j.neuroimage.2022.119056>
- \*Tibon, R.**, Cam-CAN, & Tsvetanov, K. A. (2022). The "neural shift" of sleep quality and cognitive ageing: A resting-state MEG study of transient neural dynamics. *Frontiers in Aging Neuroscience*. doi: <https://doi.org/10.3389/fnagi.2021.746236>
- \*Tibon, R.**, Greve, A., Humphreys, G., Quent, J. A., & Henson, R. (2021; accepted Stage 1 Registered Report). Do activations and representations differ during successful retrieval from episodic versus semantic memory? *Nature Human Behavior*.
- \*Tibon, R.**, Tsvetanov, K. A., Price, D., Nesbitt, D., Cam-CAN, & Henson, R. (2021). Transient resting-state network dynamics in cognitive ageing. *Neurobiology of Aging*, 105, 217-228. doi: <https://doi.org/10.1016/j.neurobiolaging.2021.01.035>
- Brouwers, K. I., Cooke, A., Chambers, C. D., Henson, R., & **\*Tibon, R.** (2020). Evidence for prereg posters as a novel platform for preregistration. *Nature Human Behaviour*. doi: <https://doi.org/10.1038/s41562-020-0868-z>
- Li, B., Hen, M., Guo, C., & **\*Tibon, R.** (2019). Unitization modulates recognition of within-domain and cross-domain associations: Evidence from event related potentials. *Psychophysiology*, 55. doi: <https://doi.org/10.1111/psyp.13446>
- Schultz, H., **Tibon, R.**, LaRocque, K., Gagnon, S., Wagner, A., & Staresina, B. (2019). Content tuning in the medial temporal lobe cortex: Voxels that perceive, retrieve. *eNeuro*, 6. doi: <https://doi.org/10.1523/ENEURO.0291-19.2019>
- \*Tibon, R.**, Fuhrmann, D., Levy, D.A., Simons, J., & Henson, R. (2019). Multimodal integration and vividness in the angular gyrus during episodic encoding and retrieval. *Journal of Neuroscience*, 39, 4365-4374. doi: <https://doi.org/10.1523/JNEUROSCI.2102-18.2018>

- \*Tibon, R.** (2019). The ventral lateral parietal cortex in episodic memory: From content to attribution (commentary on Bastin et al.). *Behavioral and Brain Sciences*, 42. doi: <https://doi.org/10.1017/S0140525X19001821>
- Greve, A., Cooper, E., **Tibon, R.**, & Henson, R. (2019). Knowledge is power: prior knowledge aids memory formation for both congruent and incongruent events, but in different ways. *Journal of Experimental Psychology: General*, 148, 325-341. doi: <http://dx.doi.org/10.1037/xge0000498>
- Litvak, V., Jafarian, A., Zeidman, P., **Tibon, R.**, Henson, R. N., & Friston, K. (2019). There's no such thing as a 'true' model: the challenge of assessing face validity (peer-reviewed conference paper). IEEE International Conference on Systems, Man and Cybernetics (SMC). doi: <http://doi.org/10.1109/SMC.2019.8914255>
- \*Tibon, R.**, Greve, A., & Henson, R. (2018). The missing link? Testing a schema account of unitization. *Memory & Cognition*, 46(7), 1023-1040. doi: <https://doi.org/10.3758/s1342>
- \*Tibon, R.**, CBU Open Science Committee, & Henson, R. (2018). Title TBA: Revising the abstract submission process (Scientific Life article). *Trends in Cognitive Sciences*, 21, 271-274. doi: <https://doi.org/10.1016/j.tics.2018.01.008>
- Vakil, E., Wasserman, A., & **Tibon, R.** (2018). Development of perceptual and conceptual memory in explicit and implicit memory systems. *Journal of Applied Developmental Psychology*, 57, 16-23. doi: <https://doi.org/10.1016/j.appdev.2018.04.003>
- Levy, D.A., Mika, R., Radzysinski, C., Ben-Zvi, S., & **Tibon, R.** (2018). Behavioral reconsolidation interference with episodic memory within-subjects is elusive. *Neurobiology of Learning and Memory*, 50, 75-83. doi: <https://doi.org/10.1016/j.nlm.2018.03.004>
- Delhaye, E., **Tibon, R.**, Gronau, N., Levy, D.A., & Bastin, C. (2017). Misrecollection prevents older adults from benefitting from semantic relatedness of the memoranda in associative memory. *Aging, Neuropsychology, and Cognition*, 25, 1-21. doi: <https://doi.org/10.1080/13825585.2017.1358351>
- \*Tibon, R.**, Cooper, E., & Greve, A. (2017). Semantic congruency accelerates encoding, or increases schematic bias?. (commentary on Packard et al.). *Journal of Neuroscience*, 37, 4861-4863. doi: <https://doi.org/10.1523/JNEUROSCI.0570-17.2017>
- Bridger, E.K., Scheuplein, A.-L., Bader, R., **Tibon, R.**, Gronau, N., Levy, D.A., & Mecklinger, A. (2017). Age-effects on associative memory for novel picture pairings. *Brain Research*, 1664, 102-115. doi: <https://doi.org/10.1016/j.brainres.2017.03.031>
- \*Tibon, R.**, & Henson, R. (2015). Commentary on: "Recollection reduces unitised familiarity effect". *Frontiers in Psychology*. doi: <https://doi.org/10.3389/fpsyg.2015.00757>
- \*Tibon, R.**, & Levy, D.A. (2015). Striking a Balance: Mixed-Effects models in EEG data analysis. *Frontiers in Psychology*. doi: <https://doi.org/10.3389/fpsyg.2015.00555>
- Tibon, R.**, Gronau, N., Mecklinger, A., Scheuplein, A., & Levy, D.A. (2014). Associative recognition processes are modulated by the semantic unitizability of memoranda. *Brain and Cognition*, 92, 19-31. doi: <https://doi.org/10.1016/j.bandc.2014.09.009>
- \*Tibon, R.**, Vakil, E., Levy, D.A., & Goldstein A. (2014). Episodic temporal structure modulates associative recognition processes: An MEG study. *Psychophysiology*, 51, 634-644. doi: <https://doi.org/10.1111/psyp.12207>

- Tibon, R.**, Ben-Zvi, S., & Levy, D.A. (2014). Associative recognition processes are modulated by modality relations. *Journal of Cognitive Neuroscience*, *26*, 1785-1796. doi: [https://doi.org/10.1162/jocn\\_a\\_00586](https://doi.org/10.1162/jocn_a_00586)
- Tibon, R.**, & Levy, D.A. (2014). Temporal texture of associative encoding modulates recall processes. *Brain and Cognition*, *84*, 1-13. doi: <https://doi.org/10.1016/j.bandc.2013.10.003>
- Tibon, R.**, & Levy, D.A. (2014). The time course of episodic associative retrieval: Electrophysiological correlates of cued recall of unimodal and crossmodal pair-associate learning. *Cognitive, Affective, & Behavioral Neuroscience*, *14*, 220-235. doi: <https://doi.org/10.3758/s13415-013-0199-x>
- \*Tibon, R.**, Vakil, E., Goldstein, A., & Levy, D.A. (2012). Unitization and temporality in associative memory: evidence from modulation of context effects. *Journal of Memory and Language*, *67*, 93-105. doi: <https://doi.org/10.1016/j.jml.2012.02.003>
- Zuckerman, M., Levy, D.A., **Tibon, R.**, Reggev, N., & Maril, A. (2012). Does this ring a bell? Music-cued retrieval of semantic knowledge and metamemory judgments. *Journal of Cognitive Neuroscience*, *24*, 2155-2170. doi: [https://doi.org/10.1162/jocn\\_a\\_00271](https://doi.org/10.1162/jocn_a_00271)

### **Submitted**

- \*Tibon, R.**, Madan, C. R., Vaghari, D., & Reyes-Aldasoro, C. C. Structural complexity of brain regions in mild cognitive impairment and Alzheimer's disease. MedRxiv. doi: <https://doi.org/10.1101/2023.04.14.23288586>
- Cooper, E., **Tibon, R.**, Greve, A., & Henson, R. (submitted). No evidence of a fast mapping advantage in healthy adults using an implicit memory measure: Failures to replicate the results of Coutanche and Thompson-Schill (2014). PsychArXiv. doi: <https://doi.org/10.31234/osf.io/zt26c>

## **Selected Talks**

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- 2023** Do activations and representations differ during successful retrieval from episodic vs. semantic memory? The 3rd Recollection, Familiarity and Novelty Detection conference, Liège, Belgium.
- 2023 [Invited]** Preregistration in Neuroimaging. BNA's Credibility Lunchbox series.
- 2021** Transient dynamics of resting-state MEG networks in cognitive ageing. The 2021 Annual Meeting of the Society for Psychophysiological Research (SPR).
- 2021 [Invited]** The dynamic brain: Transient dynamics of resting-state networks in cognitive ageing. Departmental seminar at Universität des Saarlandes, Germany.
- 2021** Rapid alternations of resting-state MEG networks in cognitive ageing. The 2021 Online Meeting of the Experimental Psychology Society (EPS).
- 2020 [Invited]** Episodic memories in the eye of the beholder. Departmental seminar at the University of Kent, UK.
- 2020 [Invited]** Prereg posters: Presenting planned research in academic events. LiveMEEG conference.
- 2019 [Invited keynote]** The ingredients of recollection: Multimodal integration and vividness of episodic memories. The 2<sup>nd</sup> Recollection, Familiarity and Novelty Detection conference, Liège, Belgium.