

# Amir-Homayoun Javadi

School of Psychology  
Keynes College  
University of Kent  
CT2 7NP, Canterbury  
United Kingdom

Mobile: +44 7511 279 243  
Office: +44 1227 827 770  
E-mail: [a.h.javadi@gmail.com](mailto:a.h.javadi@gmail.com)  
Homepage: [www.javadilab.com](http://www.javadilab.com)  
LinkedIn: [link](#)  
Google Scholar: [link](#)  
Open Science Framework: [link](#)

## Focus of Research

Cognitive enhancement for healthy ageing, more efficient rehabilitation of brain-damaged patients (such as stroke and dementia) and helping with mental health disorders. I use physical exercise, brain stimulation (electrical & magnetic), music, sleep, brain imaging (EEG, MEG & fMRI), eye-tracking, virtual reality and computational modelling (e.g., deep learning & reinforcement learning) to investigate the neurocognitive basis of memory, learning, decision making and emotion processing.

**h-index:** 26, **i10-index:** 39 (Google Scholar)

## Current Positions

- **Reader (Associate Professor) in Cognitive Neuroscience**

Oct. 2023 – present                      University of Kent                      UK  
– School of Psychology

- **Visiting Professor**

Aug. 2017 – present                      Tehran University of Medical Sciences                      Iran  
– School of Rehabilitation

## Previous Positions

- **Senior Lecturer in Cognitive Neuroscience**

Oct. 2018 – Sep. 2023                      University of Kent                      UK  
– School of Psychology

- **Honorary Research Associate**

Dec. 2015 – July 2021                      University College London                      UK  
– Institute of Behavioural Neuroscience

- **Lecturer in Cognitive Neuroscience**

Dec. 2015 – Sep. 2018                      University of Kent                      UK  
– School of Psychology

- **Postdoctoral Researcher**

Mar. 2013 – Nov. 2015                      University College London                      UK  
– Institute of Behavioural Neuroscience; Supervisor: Prof Hugo J. Spiers

- **Postdoctoral Researcher**

Mar. 2011 – Feb. 2013                      Technische Universität Dresden                      Germany  
– Section of Systems Neuroscience; Supervisor: Prof Michael N. Smolka

- **Postdoctoral Researcher**

Sep. 2010 – Feb. 2011                      Humboldt University                      Germany  
– Berlin School of Mind and Brain; Supervisor: Prof Niko Busch

## Education

- **Fellow of the Higher Education Academy**

Dec. 2015 – Jun. 2018                      University of Kent                      UK

- **PhD in Cognitive Neuroscience**

Sep. 2008 – Mar. 2011                      University College London (UCL)                      UK

- **MSc in Mechatronics Engineering**

Sep. 2003 – Aug. 2006

Azad University of Qazvin

Iran

- **BSc in Electrical and Electronics Engineering**

Sep. 1998 – Aug. 2004

Azad University of Qazvin

Iran

## Research Activities

### Under Review

\* These authors contributed equally.

† Corresponding author

1. Crowley, R., & **Javadi, A.-H.**<sup>†</sup> (under revision) The modulatory effect of oscillatory reinstatement during slow-wave sleep on declarative memory consolidation. *PsyArXiv*. doi: [10.31219/osf.io/8yxge](https://doi.org/10.31219/osf.io/8yxge)
2. Chantrel, Y., Trabattoni, V., Orton, L., & **Javadi, A.-H.**<sup>†</sup> (under revision) Intrinsic reinstatement of induced oscillatory context, *bioRxiv*, doi: [10.1101/2021.01.25.428096](https://doi.org/10.1101/2021.01.25.428096)
3. Herdson, O., Eerola, T., & **Javadi, A.-H.**<sup>†</sup> (under review) Analysis and Classification of Music-induced States of Sadness
4. Herdson, O., Minchin, M., & **Javadi, A.-H.**<sup>†</sup> (under review) The Moderating Role of Active Social Media Use on the Effect of Positive and Negative Content, *OSF*, doi: [10.17605/OSF.IO/DTEH3](https://doi.org/10.17605/OSF.IO/DTEH3)
5. Herdson, O., Whitely, C., Chai-Wi-Ting, D., & **Javadi, A.-H.**<sup>†</sup> (under review) Improvements towards digital behavioural interventions for mental health: mobile health (mHealth) apps, *OSF*, doi: [10.17605/OSF.IO/WBT8R](https://doi.org/10.17605/OSF.IO/WBT8R)
6. Herdson, O., Minchin, M., Parker, H., Muller, S., & **Javadi, A.-H.**<sup>†</sup> (under review) The Effects of Sad Music: Moderating Role of Cognitive Reappraisal, *OSF*, doi: [10.17605/OSF.IO/DTEH3](https://doi.org/10.17605/OSF.IO/DTEH3)
7. Pyke, W., Lunau, J., & **Javadi, A.-H.**<sup>†</sup> (under review) Normative Data for Logographic and Lexical Japanese Paired Associates
8. Taherikia, M., Elahi, A., Doyle, J., & **Javadi, A.-H.**<sup>†</sup> (under review) The Impact of Athlete Social Responsibility on Consumer Purchasing Behavior: A Neuromarketing Study, *OSF*, doi: [10.17605/OSF.IO/79CKG](https://doi.org/10.17605/OSF.IO/79CKG) (not public)
9. Caesley, H., Sewell, I., Gogineni, N., & **Javadi, A.-H.**<sup>†</sup> (under review) Electrical stimulation of the frontal cortex improves and motor cortex impairs learning in a whole-body movement task, *bioRxiv*, doi: [10.1101/2021.01.25.428100](https://doi.org/10.1101/2021.01.25.428100)
10. Turrell, A.S., Halper, A., Burke, S., Tozer, E., & **Javadi, A.-H.**<sup>†</sup> (under review) Neural Correlates of Drops and Classical Music Changes: an EEG Exploration, *OSF*, doi: [10.17605/OSF.IO/JY7GK](https://doi.org/10.17605/OSF.IO/JY7GK)
11. Turrell, A., Giner-Sorolla, R., Jani, A., Gouws, A., & **Javadi, A.-H.**<sup>†</sup> (under review) Transcranial electrical brain stimulation can modulate musical emotion, *OSF*, doi: [10.17605/OSF.IO/ZCYHR](https://doi.org/10.17605/OSF.IO/ZCYHR)

### In Preparation

† Corresponding author

1. Herdson, O., Whiteley, C., Brown, A., & **Javadi, A.-H.**<sup>†</sup> (in preparation) Development and Validation of the Facets of Social Media Use Scale (FSMUS), *OSF*, doi: [10.17605/OSF.IO/YKQ8N](https://doi.org/10.17605/OSF.IO/YKQ8N)
2. Scodellaro, A., Yousef, M., Dietrich, T., **Javadi, A.-H.**, & Dedini, J. (in preparation) Using consumer neuroscience to compare commercial and social marketing approaches to drink driving.
3. **Javadi, A.-H.**<sup>†</sup>, Glen, J., Pyke, W., & Beyko, A. (in preparation) Less is more – event-related electrical brain stimulation
4. Markham, A., & **Javadi, A.-H.**<sup>†</sup> (in preparation) Mozart effect: from myth to medicine
5. Ifram, F., Pyke, W., Turk, S., Amin, M., Osei-Abrokwhah, D., & **Javadi, A.-H.**<sup>†</sup> (in preparation) Combining electrical brain stimulation and physical exercise impairs long-term memory performance
6. Chai, D., Sporrer, J., Lehto, S., & **Javadi, A.-H.**<sup>†</sup> (in preparation) Be brainy, train

## Journal Publications

\* These authors contributed equally.

† Corresponding author

1. Loprinzi, P.D., Rigdon, B., **Javadi, A.-H.**, & Kelemen, W. (in press). Effects of acute exercise intensity on source episodic memory and metamemory accuracy. *Quarterly Journal of Experimental Psychology*.
2. Salimi, M., **Javadi, A.-H.**, Nazari, M., Bamdad, S., ..., & Raoufy, M., (in press) Nasal air-puff promotes default mode network activity in comatose patients: a non-invasive brain stimulation approach, *Neuromodulation: Technology at the Neural Interface*. doi:[10.1016/j.neurom.2021.11.003](https://doi.org/10.1016/j.neurom.2021.11.003)
3. Zamani, J., Sadr, A., & **Javadi, A.-H.** † (2022). Classification of early-MCI patients from healthy controls using evolutionary optimization of graph measures of resting-state fMRI, for the Alzheimer's disease neuroimaging initiative. *PLOS ONE*, 17(6), e0267608. doi: [10.1371/journal.pone.0267608](https://doi.org/10.1371/journal.pone.0267608)
4. Zamani, J., Sadr, A., & **Javadi, A.-H.** † (2022). Comparison of cortical and subcortical structural segmentation methods in Alzheimer's disease: A statistical approach. *Journal of Clinical Neuroscience*, 99(March), 99–108. doi: [10.1016/j.jocn.2022.03.004](https://doi.org/10.1016/j.jocn.2022.03.004)
5. Zamani, J., Sadr, A. & **Javadi, A.-H.** † (2022) Diagnosis of early mild cognitive impairment using a multiobjective optimization algorithm based on T1-MRI data. *Scientific Reports* 12, 1020. doi: [10.1038/s41598-022-04943-3](https://doi.org/10.1038/s41598-022-04943-3)
6. Jung, M., Ryu, S., Kang, M., **Javadi, A.-H.**, & Loprinzi, P. D. (2021). Evaluation of the transient hypofrontality theory in the context of exercise: A systematic review with meta-analysis. *Quarterly Journal of Experimental Psychology*, 174702182110488. <https://doi.org/10.1177/17470218211048807>
7. Turrell, A., Halpern, A., & **Javadi, A.-H.** † (2021) wait for it: an EEG exploration of excitement in dance music, *Music Perception*, 38(4), 345-359, doi: [10.1101/637983](https://doi.org/10.1101/637983)
8. Pyke, W., Vostanis, A., & **Javadi, A.-H.** † (2021). Electrical brain stimulation during a retrieval-based learning task can impair long-term memory. *Journal of Cognitive Enhancement*. 5(2), 218-232, doi: [10.1007/s41465-020-00200-5](https://doi.org/10.1007/s41465-020-00200-5)
9. Rodgers, F., Varley, R., Khatonabadi, A. R., & **Javadi, A.-H.** † (2020). Physical inactivity during lockdown and the implications for incidence of stroke, severity, mortality, reoccurrence and rehabilitation. *Disability and Rehabilitation*, 43(1), 148-149. doi: [10.1080/09638288.2020.1820588](https://doi.org/10.1080/09638288.2020.1820588)
10. Kortteenniemi, A., Ortega-Alonso, A., **Javadi, A.-H.**, Thomas, O., Tolmunen, T., Kotilainen, T., Wikgren, J., & Lehto, S. M. (2020). The impact of lifestyle factors on the intensity of adverse effects in single and repeated session protocols of transcranial electrical stimulation: an exploratory pilot study. *Psychiatra Fennica*, 51, 142–161.
11. Koohestani, M., Sharifnezhad, A., Abbasi, A., **Javadi, A.-H.**, & Gokeler, A. (2020). Brain Activation During Maximum Concentric and Eccentric Knee Extension Muscle Contractions. *Journal of Brain and Nerves*, 1(1), 1–6. doi: [10.31487/j.JBN.2020.01.05](https://doi.org/10.31487/j.JBN.2020.01.05)
12. Kortteenniemi, A., Ortega-Alonso, A., **Javadi, A.-H.**, Tolmunen, T., Ali-Sisto, T., Kotilainen, T., Wikgren, J., Karhunen, L., Velagapudi, V., & Lehto, S. M. (2020). Anodal tDCS Over the Left Prefrontal Cortex Does Not Cause Clinically Significant Changes in Circulating Metabolites. *Frontiers in Psychiatry*, 11(May). doi: [10.3389/fpsy.2020.00403](https://doi.org/10.3389/fpsy.2020.00403)
13. Somer, E., Allen, J., Brooks, J. L., Buttrill, V., & **Javadi, A.-H.** † (2020). Theta Phase-dependent Modulation of Perception by Concurrent Transcranial Alternating Current Stimulation and Periodic Visual Stimulation. *Journal of Cognitive Neuroscience*, 32(6), 1142–1152. doi: [10.1162/jocn\\_a\\_01539](https://doi.org/10.1162/jocn_a_01539)
14. Pyke, W.\*, Ifram, F.\*, Coventry, L., Sung, Y., Champion, I., & **Javadi, A.-H.** † (2020). The effects of different protocols of physical exercise and rest on long-term memory. *Neurobiology of Learning and Memory*, 167(107128) doi: [10.1016/j.nlm.2019.107128](https://doi.org/10.1016/j.nlm.2019.107128)

15. Varley, R., Bruns, C., Warren, J., Dąbrowska, E., & **Javadi, A.-H.** (2020). Difficulties in post-stroke aphasia: a randomised control trial (the UTILISE study). *OSF Preprint*, 1–25. doi: [10.31219/osf.io/fduqh](https://doi.org/10.31219/osf.io/fduqh)
16. Salehi, M.\*, Pyke, W.\*, Mohammadzadeh, H., Nazari, M. A., & **Javadi, A.-H.** † (2019). Mental imagery can improve performance in a visuomotor task. *PsyArXiv*. doi: [10.31234/osf.io/aqnvu](https://doi.org/10.31234/osf.io/aqnvu)
17. Zamani, J., Sadr, A., & **Javadi, A.-H.** † (2019). Cortical and Subcortical Structural Segmentation in Alzheimer’s Disease. *Frontiers in Biomedical Technologies*, 6(2), 94–98. doi: [10.18502/fbt.v6i2.1690](https://doi.org/10.18502/fbt.v6i2.1690)
18. **Javadi, A.-H.\***, Patai, E. Z.\*, Marin-Garcia, E., Margois, A., Tan, H. M., Kumaran, D., ... Spiers, H. J. (2019). Backtracking during navigation is correlated with enhanced anterior cingulate activity and suppression of alpha oscillations and the ‘default-mode’ network. *Proceedings of the Royal Society B: Biological Sciences*, 286(1908), 20191016. doi: [10.1098/rspb.2019.1016](https://doi.org/10.1098/rspb.2019.1016)
19. Crowley, R., Bendor, D., & **Javadi, A.-H.** † (2019). A review of neurobiological factors underlying the selective enhancement of memory at encoding, consolidation, and retrieval. *Progress in Neurobiology*, 179(April), 101615. doi: [10.1016/j.pneurobio.2019.04.004](https://doi.org/10.1016/j.pneurobio.2019.04.004)
20. **Javadi, A.-H.\***, Patai, E. Z.\*, Marin-Garcia, E., Margolis, A., Tan, H.-R. M., Kumaran, D., ... Spiers, H. J. (2019). Prefrontal Dynamics Associated with Efficient Detours and Shortcuts: A Combined Functional Magnetic Resonance Imaging and Magnetoencephalography Study. *Journal of Cognitive Neuroscience*, 31(8), 1227–1247. doi: [10.1162/jocn\\_a\\_01414](https://doi.org/10.1162/jocn_a_01414)
21. Patai, E. Z.\*, **Javadi, A.-H.\***, Ozubko, J. D., O’Callaghan, A., Ji, S., Robin, J., ... Spiers, H. J. (2019). Hippocampal and Retrosplenial Goal Distance Coding After Long-term Consolidation of a Real-World Environment. *Cerebral Cortex*, 29(6), 2748–2758. doi: [10.1093/cercor/bhz044](https://doi.org/10.1093/cercor/bhz044)
22. Brunec, I. K., Robin, J., Patai, E. Z., Ozubko, J. D., **Javadi, A.-H.**, Barense, M. D., ... Moscovitch, M. (2019). Cognitive mapping style relates to posterior-anterior hippocampal volume ratio. *Hippocampus*, 29(8), 748–754. doi: [10.1002/hipo.23072](https://doi.org/10.1002/hipo.23072)
23. Kortteenniemi, A., Lehto, S. M., & **Javadi, A.-H.** † (2019) Delayed, distant skin lesions after transcranial direct current stimulation. *Brain Stimulation*. 12, 204–206. doi: [10.1016/j.brs.2018.10.018](https://doi.org/10.1016/j.brs.2018.10.018)
24. Nejati, V., Salehinejad, M.A., Nitsche, M.A., Najian, A., & **Javadi, A.-H.**, (2018) Transcranial Direct Current Stimulation Improves Executive Dysfunctions in ADHD: Implications for Inhibitory Control, Interference Control, Working Memory, and Cognitive Flexibility. *Journal of Attention Disorders*. doi: [10.1177/1087054717730611](https://doi.org/10.1177/1087054717730611)
25. Stimpson, N. J., Davison, G., & **Javadi, A.-H.** † (2018). Joggin’ the Noggin: Towards a Physiological Understanding of Exercise-Induced Cognitive Benefits. *Neuroscience & Biobehavioral Reviews*, 88(March), 177–186. doi: [10.1016/j.neubiorev.2018.03.018](https://doi.org/10.1016/j.neubiorev.2018.03.018)
26. Bernardoni, F., Geisler, D., King, J. A., **Javadi, A.-H.**, Ritschel, F., Murr, J., ... Ehrlich, S. (2017). Altered Medial Frontal Feedback Learning Signals in Anorexia Nervosa. *Biological Psychiatry*, 83(3), 235–243. doi: [10.1016/j.biopsych.2017.07.024](https://doi.org/10.1016/j.biopsych.2017.07.024)
27. Kortteenniemi, A., **Javadi, A.-H.**, Wikgren, J., & Lehto, S. M. (2017). Progression of adverse effects over consecutive sessions of transcranial direct current stimulation. *Clinical Neurophysiology*, 128(17), 2397–2399. doi: [10.1016/j.clinph.2017.09.112](https://doi.org/10.1016/j.clinph.2017.09.112)
28. Jünger, E., **Javadi, A.-H.**, Wiers, C. E., Sommer, C., Garbusow, M., Bernhardt, N., ... Zimmermann, U. S. (2017). Acute alcohol effects on explicit and implicit motivation to drink alcohol in socially drinking adolescents. *Journal of Psychopharmacology*, 31(7), 26988111769145. doi: [10.1177/0269881117691454](https://doi.org/10.1177/0269881117691454)
29. Farahani, J., **Javadi, A.-H.**, O’Neil, B., & Walsh, V. (2017) Effectiveness of above real-time training on decision-making in elite football: A dose–response investigation. *Progress in Brain Research*, (Vol. 234, pp. 101–116). doi: [10.1016/bs.pbr.2017.08.007](https://doi.org/10.1016/bs.pbr.2017.08.007)
30. **Javadi, A.-H.** †, Glen, J. C., Halkiopoulou, S., Schulz, M., & Spiers, H. J. (2017).

Oscillatory Reinstatement Enhances Declarative Memory. *The Journal of Neuroscience*, 37(41), 265–17. doi:10.1523/jneurosci.0265-17.2017

31. Mutz, J. , & **Javadi, A.-H.** † (2017). Exploring the neural correlates of dream phenomenology and altered states of consciousness during sleep. *Neuroscience of Consciousness*, 3(1). doi:10.1093/nc/nix009
32. Brunec, I. K., **Javadi, A.-H.**, Zisch, F. E. L., & Spiers, H. J. (2017). Contracted time and expanded space: The impact of circumnavigation on judgements of space and time. *Cognition*, 166, 425–432. doi:10.1016/j.cognition.2017.06.004
33. **Javadi, A.-H.**\*, Emo, B.\* , Howard, L. R., Zisch, F. E., Yu, Y., Knight, R., ... Spiers, H. J. (2017). Hippocampal and prefrontal processing of network topology to simulate the future. *Nature Communications*, 8, 14652. doi:10.1038/ncomms14652
34. Dormal, V., **Javadi, A.-H.**, Andres, M., Pesenti, M., Walsh, V., & Cappelletti, M., (2016) Enhancing duration processing with parietal brain stimulation, *Neuropsychologia*, 85, 272-277, doi: 10.1016/j.neuropsychologia.2016.03.033
35. **Javadi, A.-H.** †, Tolat, A., & Spiers, H. J. (2015) Sleep enhances a spatially-mediated generalisation of learned value. *Learning & Memory*, 22(10): 532-536. doi: 10.1101/lm.038828.115
36. **Javadi, A.-H.** †, Beyko, A., Walsh, V., & Kanai, R. (2015). Transcranial direct current stimulation of the motor cortex biases action choice in a perceptual decision task. *Journal of Cognitive Neuroscience*, 27: 2174-2185. doi:10.1162/jocn\_a\_00848
37. **Javadi, A.-H.** † (2015). Modulation of the pre-supplementary motor area reduces sense of agency (Commentary on Cavazzana et al.). *European Journal of Neuroscience*. 42(3): 1887-1888, doi: 10.1111/ejn.12954
38. Schaal, N., **Javadi, A.-H.**, Halpern, A., Pollok, B., Banissy, M., (2015) Right parietal cortex mediates memory for melodies: A tDCS study. *European Journal of Neuroscience*. 42(1): 1660-1666. doi: 10.1111/ejn.12943
39. **Javadi, A.-H.**, Spiers, H. J. (2015). Dispatch; Neuroscience: Teleporting Mind into Body and Space. *Current Biology*. 25(11): R448-R450. doi: 10.1016/j.cub.2015.04.010
40. **Javadi, A.-H.** †, Hakimi, Z., Barati, M., Walsh, V., & Tcheang, L. (2015). SET: a pupil detection method using sinusoidal approximation. *Frontiers in Neuroengineering*. 8:4. doi: 10.3389/fneng.2015.00004
41. Brunec, I. K., Chadwick, M., **Javadi, A.-H.**, Guo, L., Malcolm, C., & Spiers, H. J., (2015) Chronologically organised structure in autobiographical memory search. *Frontiers in Psychology*, 6:338. doi: 10.3389/fpsyg.2015.00338
42. Schad, D. \* , Jünger, E. \* , Sebold, M., Garbusow, **Javadi, A.-H.**, et al. (2014). Smart goals, slow habits? Individual differences in processing speed and working memory capacity moderate the balance between habitual and goal-directed choice behaviour. *Frontiers in Psychology*. 5:1450, doi: 10.3389/fpsyg.2014.01450
43. **Javadi, A.-H.** †\*, Schmidt, D.\* , & Smolka, M. N. (2014). Adolescents adapt more slowly than adults to varying reward contingencies. *Journal of Cognitive Neuroscience*, 26(12): 2670-2681. doi: 10.1162/jocn\_a\_00677
44. **Javadi, A.-H.** †, Brunec, I. K., Walsh, V., Penny, W. D. & Spiers, H. J., (2014). Transcranial electrical brain stimulation modulates neuronal tuning curves in perception of numerosity and duration, *NeuroImage*, 102, 451–457. doi:10.1016/j.neuroimage.2014.08.016
45. Howard, L. R., **Javadi, A.-H.**, Yu, Y., Mill, R. D., Morrison, L. C., Knight, R., . . . Spiers, H. J. (2014). The hippocampus and entorhinal cortex encode the path and Euclidean distances to goals during navigation. *Current Biology*, 24, 1331-1340. doi: 10.1016/j.cub.2014.05.001
46. **Javadi, A.-H.** †\*, Schmidt, D.\* , & Smolka, M. N. (2014). Differential representation of feedback and decision in adolescents and adults. *Neuropsychologia*, 56, 280–8. doi:10.1016/j.neuropsychologia.2014.01.021
47. Herbst, S., **Javadi, A.-H.**, van der Meer, E., & Busch, N.A., (2013) How long depends on how fast – perceived flicker frequencies dilate subjective duration. *PLOS*

ONE, 8(10): e76074. doi:[10.1371/journal.pone.0076074](https://doi.org/10.1371/journal.pone.0076074)

48. Ditye, T., **Javadi, A.-H.**, Carbon, C.C., & Walsh, V., (2013), Sleep facilitates long-term face adaptation. *Proceedings of the Royal Society B: Biological Sciences*, 280(1769), 20131698. doi: [10.1098/rspb.2013.1698](https://doi.org/10.1098/rspb.2013.1698)
49. Wiers, C.E., Kühn, S., **Javadi, A.-H.**, ..., Bermpohl, F. (2013), Automatic approach bias towards smoking cues prevails in heavy smokers but vanishes in ex-smokers. *Psychopharmacology*, 229(1), 187-197. doi: [10.1007/s00213-013-3098-5](https://doi.org/10.1007/s00213-013-3098-5)
50. Barati, M., Hakimi, Z., & **Javadi, A.-H.** † (2013). A flow based horizontal scan detection using genetic algorithm approach. *Life Science Journal*, 10(8s), 331-335.
51. Hakimi, Z., Barati, M., & **Javadi, A.-H.** † (2013). A distributed intrusion detection system using cooperative agents. *Life Science Journal*, 10(8s), 253-257.
52. **Javadi, A.-H.** †, & Cheng, P. (2013). Transcranial direct current stimulation (tDCS) enhances reconsolidation of long-term memory. *Brain Stimulation*, 6(4), 668-674. doi: [10.1016/j.brs.2012.10.007](https://doi.org/10.1016/j.brs.2012.10.007)
53. **Javadi, A.-H.** †, & Aichelburg, C. (2013) Training enhances the interference of numerosity on duration judgement, *PLOS ONE* 8(1): e54098. doi: [10.1371/journal.pone.0054098](https://doi.org/10.1371/journal.pone.0054098)
54. **Javadi, A.-H.** †, & Wee, N. (2012) Objects can produce gender adaptation aftereffects in gender perception from face. *PLOS ONE* 7(9): e46079. doi: [10.1371/journal.pone.0046079](https://doi.org/10.1371/journal.pone.0046079)
55. **Javadi, A.-H.** †, Cheng, P., & Walsh, V. (2012) Short duration transcranial direct current stimulation (tDCS) modulates verbal memory. *Brain Stimulation*. 5, 468-474, doi: [10.1016/j.brs.2011.08.003](https://doi.org/10.1016/j.brs.2011.08.003)
56. **Javadi, A.-H.** †, & Aichelburg, C. (2012) When time and numerosity interfere: the longer the more, and the more the longer. *PLOS ONE*, 7(7): e41496. doi: [10.1371/journal.pone.0041496](https://doi.org/10.1371/journal.pone.0041496)
57. **Javadi, A.-H.** †, & Walsh, V. (2012) Transcranial direct current stimulation applied over left dorsolateral prefrontal cortex modulates declarative verbal memory. *Brain Stimulation*. 5, 231-241. doi: [10.1016/j.brs.2011.06.007](https://doi.org/10.1016/j.brs.2011.06.007)
58. **Javadi, A.-H.** †, & Walsh, V., Lewis, P.A. (2011) Offline consolidation of procedural skill learning is enhanced by negative emotional content. *Experimental Brain Research*, 208(4), 507-518. doi: [10.1007/s00221-010-2497-7](https://doi.org/10.1007/s00221-010-2497-7)
59. **Javadi, A.-H.** †, & Mojabi, P. (2005) Introducing Climax: A novel strategy to a tri-wheel spiral robot. *Robotics and Autonomous Systems*, 51(4), 297-310, doi: [10.1016/j.robot.2004.05.007](https://doi.org/10.1016/j.robot.2004.05.007)
60. **Javadi, A.-H.** †, & Mojabi, P. (2004) Introducing Glory: A novel strategy for an omnidirectional spherical rolling robot. *Journal of Dynamic Systems, Measurement, and Control*, 126(3), 678-684, doi: [10.1115/1.1789542](https://doi.org/10.1115/1.1789542)

## Conference Presentations

\* Last 5 years

1. Turrell, A.S., Halpern, A., Tozer, E., Burke, S., & **Javadi, A.-H.** (2020, 15-17 September). The Emotive and Neurological Response to Break Routines in Different Music Genres, *Proceedings of the 13th International Conference of Students of Systematic Musicology (SysMus20)*, York, United Kingdom, doi: [10.17605/OSF.IO/KAS63](https://doi.org/10.17605/OSF.IO/KAS63)
2. Zamani, J., Sadr, A., & **Javadi, A.-H.** (2020, March 19-21). Best graph theory features selection for discrimination between early MCI and healthy control groups using rest-fMRI data, *34th International Conference of Alzheimer's Disease International*, Singapore.
3. Turrell, A. S., Jani, A.\*, Gouws, A.\*, & **Javadi, A.-H.** (2020, May 19). Causal involvement of middle frontal gyrus in musical emotion. *Brain, Cognition, Emotion, Music (BCEM) Conference*, May 20-21, 2020, doi: [10.17605/OSF.IO/ZCYHR](https://doi.org/10.17605/OSF.IO/ZCYHR)
4. Turrell, A. S., Herdson, O.\*, Shaw, F.\*, Kong, X. X.\*, & **Javadi, A.-H.** (2020, May 19). Repeated exposure to dance music modulates response to musical emotion. *Brain, Cognition, Emotion, Music (BCEM) Conference*, May 20-21, 2020, doi: [10.17605/OSF.IO/Z4JXT](https://doi.org/10.17605/OSF.IO/Z4JXT)

5. Bogart, M., Giner-Sorolla, R., **Javadi, A.-H.** (2020) The Good, the Bad, and the Icky: Emotion Regulation via tDCS with Facial EMG, *the Society for Personality and Social Psychology's Annual Convention (SPSP2020)*, New Orleans, US
6. Scodellaro, A., Dietrich, T., Yousef, M., Dedini, J., **Javadi, A.-H.** (2020). Using neuromarketing to evaluate anti-drink driving advertisements. *Agents of Change Summit*, San Diego, California.
7. Scodellaro, A., Dietrich, T, **Javadi, A.-H.**, & Yousef, M. (2019), Using EEG to assess emotional appeal advertisements, *Australian and New Zealand Marketing Academy Conference (ANZMAC2019)*, Wellington, New Zealand.
8. Zamani, J., **Javadi, A.-H.**, Sadr, A., & Norouzian, M. (2019). Cortical and Subcortical Structural Segmentation in Alzheimer's Disease, *3<sup>rd</sup> Iranian Symposium on Brain Mapping (ISBM2019)*, Tehran, Iran.
9. Maher, A., Absolon, S., & **Javadi, A.-H.** (2019) music impairs learning in introverts but not extraverts, *poster presentation at Memory Malleability over Time, University of Kent*, Canterbury, UK
10. Absolon, S., Carlin, L., Svenden, R., & **Javadi, A.-H.** (2019) effect of lyrics on introverts and extroverts in memory performance, *poster presentation at Memory Malleability over Time, University of Kent*, Canterbury, UK
11. Pyke, W., Ifram, F., Coventry, L., Sung, Y., Champion, I., & **Javadi, A.-H.** (2019) the effects of different protocols of exercise and rest on memory, *poster presentation at Memory Malleability over Time, University of Kent*, Canterbury, UK
12. Ifram, F., Pyke, W., Osei-Abrokwah, D., & **Javadi, A.-H.** (2019) physical exercise and brain stimulation alone enhance long-term memory but their combination does not, *poster presentation at Memory Malleability over Time, University of Kent*, Canterbury, UK
13. Ifram, F., Osei-Abrokwah, D., & **Javadi, A.-H.** (2018) Enhancing long-term memory using physical exercise and brain stimulation, *poster presentation British Association for Cognitive Neuroscience conference (BACN Conference 2018)*, Glasgow, UK
14. Kortteenniemi, A., Varheenmaa, M., Brem, A.-K., **Javadi, A.-H.**, Wikgren, J., & Lehto, S. M. (2017). The effects of sleep on the intensity of skin reactions induced by transcranial electrical stimulation, *poster presentation at 26th European Congress of Psychiatry (EPA2018)*, Nice, France
15. Ifram, F., Coventry, L., & **Javadi, A.-H.** (2017) A short bout of exercise enhances long-term memory, *poster presentation at the University of 3<sup>rd</sup> Age Annual Conference*, Canterbury, UK
16. **Javadi, A.-H.**, & S. Yoo (2017) Electrical brain stimulation enhances transfer of skills, *Poster presentation at the 2<sup>nd</sup> International Brain Stimulation Conference*, Barcelona, Spain
17. **Javadi, A.-H.**, Purnell, S., Schaal, N., Banissy, M., & Halpern, A.R. (2017) Electrical brain stimulation during encoding improves musical memory. *Poster presentation at the 2<sup>nd</sup> International Brain Stimulation Conference*, Barcelona, Spain
18. Spiers, H. J., & **Javadi, A.-H.** (2016) Sleep enhances a spatially mediated generalization of learned values. *Oral presentation at the International Conference on Memory*, Budapest, Hungary
19. **Javadi, A.-H.**, Ifram, F., & Boccara, L. (2016) Neural correlate of memory improvement during physical exercise. *Poster presented at the International Conference on Memory*, Budapest, Hungary
20. **Javadi, A.-H.**, Ifram, F., & Boccara, L. (2016) Theta band activity during physical exercise correlates with memory improvement, *Oral presentation at the experimental psychology society (EPS) Meeting*, Durham, UK.
21. **Javadi, A.-H.**, & Assassi, Z. (2016) Investigating the role of parietal and prefrontal cortices in spatial working memory using tDCS, *Poster presented at the 6th International Conference on Transcranial Brain Stimulation*, Göttingen, Germany.
22. **Javadi, A.-H.**, & Ifram, F. (2016) Physical exercise improves long-term memory no less than transcranial direct current stimulation, *Poster presented at the 6th*

*International Conference on Transcranial Brain Stimulation, Göttingen, Germany.*

## Invited Lectures

\* Last 5 years

1. *Intrinsic oscillatory reinstatement following memory recall*, Memory Malleability over Time, School of Psychology, University of Kent, UK, January, 2019.
2. *An Introduction to Electrical Brain Stimulation – Research and Practice*, School of Psychology, Chemnitz University, Chemnitz, Germany, October, 2018.
3. *The modulatory effect of oscillatory reinstatement on memory*, School of Psychology, Chemnitz University, Chemnitz, Germany, October, 2018.
4. *Application of neuropsychology methods in exercise sciences*, School of Exercise Sciences, Kharazmi University, Tehran, Iran, January, 2018.
5. *Neurocognitive mechanism and enhancement of memory and language*, School of Rehabilitation, Tehran University of Medical Sciences, Tehran, Iran, December, 2017.
6. *Cognitive Enhancement using Brain Stimulation and Physical Exercise*, Kingston University, Surrey, UK, November, 2017.
7. *Exercise your heart - boost your brain*, University of 3<sup>rd</sup> Age Annual Conference, University of Kent, May, 2017.
8. *Long-term memory – modulating consolidation*, Think Kent, University of Kent, Canterbury, April, 2017.
9. *In the pursuit of super human*, Pint of Science, Canterbury, UK, October, 2016.
10. *Theta band activity during physical exercise correlates with memory improvement*, Department of Experimental Psychology, Imperial College, London, UK, May, 2016.
11. *Neural Correlate of Physical Exercise and Cognitive Enhancement*, School of Sport & Exercise Sciences, University of Kent, Medway, UK, May, 2016.  
*Cognitive Enhancement using Physical Exercise*, Human Performance Lab, GSK, London, UK, April, 2016.

## Others

### Membership

- Experimental Psychology Society (EPS) (2016-present)
- British Neuroscience Association (BNA) (2014-present)
- Federation of European Neuroscience Societies (FENS) (2009-present)

### Editorial Board

- *PLOS ONE* Academic Editor

### Ad-hoc Reviewer

- *Journals (selected ones)*  
Science, Nature Human Behaviour, Scientific Reports, New England Journal of Medicine, PNAS, NeuroImage, Brain Stimulation, Cerebral Cortex, Cortex, Journal of Cognitive Neuroscience, European Journal of Neuroscience, European Journal of Neurology, Developmental Science, Clinical Neurophysiology, PLOS ONE, IEEE Transactions on Biomedical Engineering, Expert Review of Medical Devices
- *Grants*  
Medical Research Council (MRC), Wellcome Trust, Israel Science Foundation (ISF), Action Medical Research, French National Research Agency (ANR)

## Grants and Awards

\* Last 5 years

1. Co-principle investigator, A remote self-delivered therapy programme targeting language processing in individuals with post-stroke aphasia, September 2021, £72,807
2. Winner of University Teaching Prize, University of Kent, 2021
3. Co-principle investigator, Reconstructing sentence processing in aphasia, Stroke Association, December 2018, £209,390
4. Two-week research visit to Chemnitz University, Chemnitz, Germany, October 2018, €1,130
5. KentHealth – Strategic Research Development Fund, University of Kent, July 2017, £2,940

## Public Engagement

\* Last 5 years

1. In pursuit of super human, *Pint of Science*, Rochester, May 2019
2. Students & depression, KMTV, Kent Online, May 2019 ([link](#) episode 12)
3. *Discussion on modern cars from the digital angle*, Los Angeles radio live, Uncommon Conversations hosted by Maryam Zar and John Harlow, June 2019
4. *Does GPS Impact Your Brain and Sense of Place*, AirTalk radio live hosted by Larry Mantle, June 2019 ([link](#))
5. *Collaborating to Develop Mental Health Research in Kent*, University of Kent, UK, May 2019
6. *Sleep and parasomnia - panel discussion*; Gulbenkian Theatre, University of Kent, UK, October 2018.
7. *This conversation is electric: Comprehension of speech and language* - Pint of Science Festival - Rochester, UK, May 2018
8. *Mending the Mind with Music* - Pint of Science Festival, Tonbridge, UK, May 2018
9. *BBC Radio* – Interview – Kent, UK, June 2017.
10. *Channel 4* – How to get fit fast, TV Documentary, UK, August 2017.
11. *BBC Radio* – Interview – London, UK, March 2017.