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Current Appointment

Jan 2013 **Senior Research Fellow funded by the European Research Council**
Institute of Cognitive Neuroscience(ICN), University College London (UCL), London UK
European Research Council Starting Grant (NeuroCoDec, #309865)

Previous Appointments

2010-2012 **British Academy Postdoctoral Research Fellow**
Institute of Cognitive Neuroscience(ICN), University College London (UCL), London UK

2008 – 2010 **Postdoctoral Research Fellow**
Jointly appointed at
UCL Institute of Cognitive Neuroscience, University College London
Interacting Mind Project, Aarhus University, Aarhus, Denmark

2004 – 2008 **Graduate (PhD) Student**
UCL Institute of Cognitive Neuroscience,

2001 – 2003 **Research Assistant**
Electroencephalography Clinic, Roozbeh Psychiatry Hospital, Tehran University of Medical Sciences, Tehran, IRAN

1997 – 1999 **Research Assistant**
Laboratory of Excimer Lasers, Tehran Polytechnique, Tehran, IRAN

Education

Ph.D. Institute of Cognitive Neuroscience, University College London, 2008

M.D. Tehran University of Medical Sciences, Tehran, IRAN, 2003

Teaching Experience

2008-
present **School of Cognitive Sciences, Tehran, Iran**
Summer School: Experimental Methods in Neuroscience and Psychology

2010-
present **Institute of Cognitive Neuroscience, UCL (organizer: Dr Leun Otten)**
MSc course in Cognitive Neuroscience

2013-14 **Psychology and Language Sciences**
Undergraduate course in Attention and Awareness

Grants

2012-2017 European Research Council StG (NeuroCoDec, #309865) € 1,486,197.00

2010-2013 British Academy Post-Doctoral Research Fellowship £ 247,733.00

Prizes, Awards & Honours

2005-2006 Sully Scholarship, UK

2005 Oliver Braddick Prize in Psychology

2004-2007 Overseas Research Scholarship (ORS), UK

Affiliations and Activities

Societies Vision Science Society

Society for Neuroscience

Peer Review Journal of Neuroscience, Current Biology, Journal Of Experimental Psychology: General; Journal Of Experimental Psychology: Human Perception and Performance; Psychonomic Bulletin and Review, Cerebral Cortex, Proceedings of National Academy of Sciences, Journal of Cognitive Neuroscience, Perception

Co-organizer 2nd IMPRS NeuroCom Summer School, London UK, July 6 – 8 2011

In collaboration with Prof. Patrick Haggard

<http://imprs-neurocom.mpg.de/summerschool/index.html>

FIL Brain Meetings Seminar Series 2012-2013

In collaboration with Peter Smittenaar

<http://www.fil.ion.ucl.ac.uk/Meetings/>

Publications

1. Mahmoodi, A., Bang, B., Olsen, K., Zhao, Y.A., Shi, Z., Broberg, K., Safavi, S., Han, S., Ahmadabadi, M.N., Chris, D.F., Roepstorff, A., Rees, G., and **Bahrami, B.** Equality bias impairs collective decision-making across cultures. *PNAS* (2015) 12, 3835–3840, doi: 10.1073/pnas.1421692112.
2. Brain activity dynamics in human parietal regions during spontaneous switches in bistable perception. Megumi F, **Bahrami B**, Kanai R, Rees G. *NeuroImage*.(accepted).
3. Getov, S., Kanai, R., **Bahrami, B.**, Rees, G. Human brain structure predicts individual differences in preconscious evaluation of facial dominance and trustworthiness. *Soc. Cog. Affect. Neuro.* (accepted)
4. Sandberg K, Barnes GR, **Bahrami B**, Kanai R, Overgaard M, Rees G. Distinct MEG correlates of conscious experience, perceptual reversals and stabilization during binocular rivalry. *Neuroimage*. (2014) Oct;100:161-75. doi: 10.1016/j.neuroimage.2014.06.023.
5. Bisazza, A., Butterworth, B., Piffer, L., **Bahrami, B.**, Petrazzini, M.E.M., Agrillo, C. Collective enhancement of numerical acuity by meritocratic leadership in fish. (2014) *Scientific Report*.
6. Bang, D., Fusaroli, R., Tylén, K., Olsen, K., Latham, P., Lau, J., Roepstorff, A., Rees, G., Frith, C., **Bahrami, B.** Does interaction matter? Testing whether a confidence heuristic can replace interaction in collective decision-making. (accepted). *Consciousness & Cognition*.
7. Stolte, M.J., **Bahrami, B.**, Lavie, N., High perceptual load leads to both reduced gain and broader orientation tuning (accepted). *Journal of Vision*.
8. Mahmoodi A, Bang D, Ahmadabadi MN, **Bahrami B** (2013) Learning to Make Collective Decisions: The Impact of Confidence Escalation. *PLoS ONE* 8(12): e81195. doi:10.1371/journal.pone.0081195.
9. Ditye, T, Kanai, R., **Bahrami, B.**, Muggleton, N.G., Rees, G., Walsh, V. (2013) Rapid changes in brain structure predict improvements induced by perceptual learning. *Neuroimage*. 81:205-12.
10. Cullen, H., Kanai, R., **Bahrami, B.**, & Rees, G. (2013) Individual differences in anthropomorphic attributions and human brain structure. *Soc Cogn Affect Neurosci*. doi: 10.1093/scan/nst109
11. Aphorpe, D., Schwarzkopf, D.S., Kaul, C., **Bahrami, B.**, Alais, D., Rees, G. (2013) Direct evidence of motion streaks in human visual cortex. *Proc. R. Soc. B* doi:10.1098/rspb.2012.2339
12. Gialie-Dotan, S., Kanai, R., **Bahrami, B.**, Rees, G., Saygin, A. P. (2013) Neuroanatomical correlates of biological motion detection. *Neuropsychologia* 2012 Dec 1. doi:p11: S0028-3932(12)00504-0.
13. Sandberg, K., Barnes, G., Kanai, R., **Bahrami, B.**, Overgaard, M., Rees, G. (2013) Early visual response predicts conscious face perception within and between subjects during binocular rivalry. *Journal of Cognitive Neuroscience*.
14. Kanai, R., **Bahrami, B.**, Duchaine, B., Janik, A., Banissy, M., Rees, G. (2012) Brain structure links loneliness to social perception. *Current Biology*. doi: 10.1016/j.cub.2012.08.045.
15. Konstantinou, N., **Bahrami, B.**, Rees, G., Lavie, N. (2012) Visual short-term memory load reduces retinotopic response to contrast. *Journal of Cognitive Neuroscience*
16. **Bahrami, B.**, Didino, D., Frith, C., Butterworth, B., Rees, G. Collective Enumeration. (2012) *J Exp Psychol Hum Percept Perform* 39(2):338-347.
17. Stewart L, Ajina A, Getov S, **Bahrami B**, Todorov A, Rees G. (2012) Unconscious evaluation of faces on social dimensions. *Journal Experimental Psychology: General*.doi: 10.1037/a0027950
18. **Bahrami, B.**, Olsen, K., Bang, D. Roepstorff, A., Rees, G. and Frith, C. (2012) What failure in collective decision-making tells us about metacognition. *Philosophical Transactions of Royal Society B*. vol. 367 no. 1594 1350-1365
19. Fusaroli, R., **Bahrami, B**, Olsen, K., Roepstorff, A., Rees, G., Frith, C., Tylén K. (2012) Coming to Terms: Quantifying the Benefits of Linguistic Coordination. *Psychological Science*. 23(8):931-9.
20. Wright, ND, **Bahrami, B.**, Johnson, E., Di Malta, G., Rees, G., Frith, CD., Dolan RJ. (2012) Testosterone disrupts human collaboration by increasing egocentric choices. *Proceedings of the Royal Society B*. Epub:

February 1, 2012, doi:10.1098/rspb.2011.2523

21. Campbell-Meiklejohn, DK., Kanai, R., **Bahrami, B.**, Bach, DR., Dolan, RJ., Roepstorff A., & Frith CD. (2012) Structure of orbitofrontal cortex predicts social influence. *Current Biology*. 22(4): R123-R124.
22. **Bahrami, B.**, Olsen, K., Bang, D., Roepstorff, A., Rees., G. & Frith, C. (2012). Together, slowly but surely: the role of social interaction and feedback in the build-up of benefit in collective decision-making. *JEP:HPP*. 2012 Feb;38(1):3-8.
23. Zokaei, N., Gorgoraptis, N., **Bahrami, B.**, Bays, P. M., & Husain, M. (2011). Precision of working memory for visual motion sequences and transparent motion surfaces. *Journal of Vision*, 11(14):2,1–18, doi:10.1167/11.14.2.
24. Kanai, R., **Bahrami, B.**, Roylance, R., Rees, G. (2011) Online social network size is reflected in human brain structure. *Proc Biol Sci*. Apr 7;279(1732):1327-34. Epub 2011 Oct 19.
25. **Bahrami, B.**, Frith, C. (2011) Interacting Minds: A Framework for Combining Process- and Accuracy-Oriented Social Cognitive Research. *Psychological Inquiry*. 22(3): 183-6.
26. Cohen Kadosh, R., **Bahrami, B.**, Walsh, V., Butterworth, B., Popescu, T., Price, C.J. (2011). Specialization in the human brain: the case of numbers. *Front. Hum. Neurosci*. 5:62. doi: 10.3389/fnhum.2011.00062.
27. Kanai, R., Dong, M., **Bahrami, B.**, Rees, G. (2011). Distractibility in daily life is reflected in the structure and function of human parietal cortex. *Journal of Neuroscience*. 31(18): 6620-6626.
28. Sandberg, K., **Bahrami, B.**, Lindeløv, J., Overgaard, M., & Rees, G. (2011) The impact of stimulus complexity and frequency swapping on stabilization of binocular rivalry. *Journal of Vision* 11(2):6,1-10. doi: 10.1167/11/2/6
29. Kanai, R., Carmel, D., **Bahrami, B.**, Rees, G. (2011) Structural and functional fractionation of right superior parietal cortex in bistable perception *Current Biology* 21(3):R106-R107.
30. Meteyard, L., Rodriguez, S., **Bahrami, B.**, Vigliocco, G. Beyond the current state of the art: a review of embodiment and the neuroscience of semantics. *Cortex*. DOI: 10.1016/j.cortex.2010.11.002.
31. Harris, J. J., Schwarzkopf, D. S., Song, C., **Bahrami, B.**, Rees, G. (2011) Contextual illusions reveal the limit of unconscious visual processing. *Psychological Science*. 22(3):399-405.
32. Kanai, R., **Bahrami, B.**, Rees, G. (2010) Human parietal cortex structure predicts the individual differences in perceptual rivalry. *Current Biology*. 20: 1626-30.
33. **Bahrami, B.**, Olsen, K., Latham, P., Roepstorff, A., Rees, G., Frith, C. (2010). Optimally interacting minds. *Science*. 329: 1081-1085.
34. Vetter, P., Butterworth, B. and **Bahrami, B.** (2010) A candidate for the attentional bottleneck: Set-size Specific Modulation of Right TPJ during Attentive Enumeration. *Journal of Cognitive Neuroscience* 23:1-9
35. Bueti, D., **Bahrami, B.**, Walsh, V. and Rees, G. (2010) Representation of temporal expectations in human primary visual cortex. *Journal of Neuroscience* 30(12):4343-4352.
36. **Bahrami, B.**, Vetter, P., Spolaore, E., Pagano, S., Butterworth, B., Rees, G. (2010) Unconscious numerical priming despite interocular suppression *Psychological Science* 21(2): 224-233.
37. Vetter, P., Butterworth, B., and **Bahrami, B.** (2008) Modulating attentional load affects numerosity estimation: Evidence against a pre-attentive subitizing mechanism. *PLoS ONE*.
38. Meteyard, L., Zokaei, N., **Bahrami, B.** & Vigliocco, G. (2008) Visual motion interferes with lexical decision on motion words. *Current Biology* 18(17), R732-R733.
39. **Bahrami, B.**, Carmel, D., Walsh, V., Rees, G., Lavie, N. (2008). Spatial attention can modulate unconscious orientation processing. *Perception*. 37(10):1520-8.
40. Bueti, D., **Bahrami, B.**, Walsh, V. (2008) Sensory and association cortex in time perception. *Journal of Cognitive Neuroscience* 20: 1054-1062.
41. Kaul, C., **Bahrami, B.** (2008). Subjective experience of motion or attentional selection of a categorical decision. *Journal of Neuroscience* 28(16), 4110-4112.
42. **Bahrami, B.**, Carmel, D., Walsh, V., Rees, G., & Lavie, N. (2008). Unconscious orientation processing depends on perceptual load. *Journal of Vision*, 8(3):12, 1-10, doi:10.1167/8.3.12.
43. **Bahrami, B.** Lavie, N. and Rees, G. (2007) Attentional load modulates responses of human primary visual cortex to invisible stimuli. *Current Biology* 17, 509-513. [See also: Braun, J. (2007) Attending the invisible. *Current Biology* 17, R202-3].
44. Meteyard, L., **Bahrami, B.**, Vigliocco, G. (2007). Motion detection and motion verbs: Language affects low-level visual perception. *Psychological Science* 18(11), 1007-1013.
45. **Bahrami, B.**, Seyedsadjadi, R., Babadi, B., Noroozian, M. (2005). Brain complexity increases in mania. *NeuroReport* 16, 187-191.
46. **Bahrami, B.** (2003). Object property encoding and change blindness in multiple object tracking. *Visual Cognition* 10(8), 949-963.

Dissertations

1. Bahrami, B. (2008) Attention without awareness. Dissertation for Doctorate of Philosophy (Ph.D.) Institute of Cognitive Neuroscience. University College London. London, UK
2. Bahrami, B. (2003) Quantitative electroencephalography (qEEG) patterns in mania: Topographic Brain mapping. Medical Doctorate Dissertation. Tehran University of Medical Sciences, Tehran IRAN

Supervision

MSc Level

2012 Niccolo Pescetelli, Dual MSc student at UCL; Current Position: 2nd year of Dual MSc in Paris

2011 Christos Sideras, MSc student at UCL; current position: Trainee in Psychiatry, UCL

2011 Gina Di Malta, MSc student at UCL; current position: business administrator

2011 Emily Johnson, MSc student at UCL; current position: research assistant at Department of Psychology, University of California, San Diego

2011 Dan Bang. BSc Aarhus University, Denmark; current position: PhD student at Oxford University

2010 Spas Getov. MSc student in UCL, current position: PhD student at Wellcome Centre for Neuroimaging

2010 Mia Y Dong. BSc student in UCL; current position: research assistant at Aarhus University, Denmark

2011 Karsten Olsen. MSc student in UCL; current position: PhD student in Aarhus University

2010 Sara Ajina. MSc student in UCL; current position: PhD student at Oxford University

2010 Payam Piray. MSc student at Tehran University, IRAN; current position: PhD student at FC Donders Centre Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands

2009 Silvia Pagano. MSc student in University of Padova, Italy; current position: PhD Student at the University of Trento

2008 Eva Spolaore. MSc student in University of Padova, Italy

PhD Level

From 2010 Moritz Stolte currently PhD student in UCL

From 2010 Thomas Ditye currently PhD student in UCL

2010-2011 Lorna Stewart. PhD student in UCL; current position: Postdoctoral researcher at UCL Department of Clinical Psychology

2010-2011 Kristian Sandberg. PhD student in Aarhus University, Denmark; current position: Postdoctoral fellow at Aarhus University, Denmark

2008-2012 Nahid Zokaei. BSc and then PhD student in UCL; current position: Postdoctoral Fellow at Oxford University

2008-2011 Nikos Konstantinou. PhD student in UCL; current position: Lecturer at University of Cyprus

2010 Julia Harris currently Lecturer in University of Larnaka, Cyprus

2006-2008 Petra Vetter. PhD student in UCL; current position: Postdoctoral fellow at University of Geneva