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Current Appointment

From Oct 2018 **Senior Research Fellow of the Humboldt Foundation**
Centre for Adaptive Rationality, Max Planck Institute for Human Development, Berlin, Germany

From Nov 2017 **Senior Research Scientist**
Faculty of Psychology and Educational Sciences, Ludwig Maximilian University, Munich, Germany

Previous Appointments

2013-2017 **Group Leader**
Crowd Cognition Lab, Institute of Cognitive Neuroscience(ICN), University College London (UCL), UK, funded by European Research Council StG (NeuroCoDec, #309865)

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
Interacting Mind Project, Aarhus University, Aarhus, Denmark
UCL Institute of Cognitive Neuroscience, University College London

Education

Ph.D. Institute of Cognitive Neuroscience, University College London, 2008
Advisors: Vincent Walsh, Nilli Lavie

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

Teaching Experience

2008-present **School of Cognitive Sciences, Tehran, Iran**
Experimental Methods in Neuroscience and Psychology (two modules per academic year taught online via Skype)

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, Awards & Honours

2019-2024 European Research Council CoG (rid-O) € 1,928,912

2019-2021 Nomis Foundation, Switzerland € 495,000

2018-2019 Humboldt Senior Research Fellowship, Germany

2017-2020 Sir Henry Wellcome Postdoctoral Fellowship awarded to Marwa El Zein – my role: hosting PI £ 250,000

2016-2018 Collaborative Research Grant from Nippon Telegraph and Telephone (NTT) £ 26700.

2012-2017 European Research Council StG (NeuroCoDec, #309865) € 1,486,197

2010-2013 British Academy Post-Doctoral Research Fellowship £ 247,733

2005-2006 Sully Scholarship, UK

2005 Oliver Braddick Prize in Psychology

2004-2007 Overseas Research Scholarship (ORS), UK

2004-2007 Graduate School Research Scholarship (GSRS), UK

Consultancy, Outreach and Public Engagement

- 2017 to present – contributions to Cognition and Culture Blog
- 2017 to present – Testable.org platform for Psychological Experimentation by nonpsychologist
- 2016 to present – advising Majestic Wine Ltd on social marketing strategies
- 2017 – Credit Suisse, Thought Leadership Forum, Vienna Austria
- 2017 – IdeasLab, World Economic Forum, Davos Switzerland <http://bit.ly/2v7x00M>
- 2015 – Financial Education and Investor Behavior at Rio de Janeiro held by the Brazilian Securities Exchange Commission (CVM)
- 2015 – BBC Persian Panel Discussion (PARGAR program) on role of Cognitive Sciences in revolution of Artificial Intelligence <http://bit.ly/2f64vcW>
- 2014 – BBC Persian Panel Discussion on Cognitive decline and Aging <http://bit.ly/2foowq6>

Publications

pre-print manuscripts

1. Foda, H., Barger, K., Navajas, J., & Bahrami, B. (2017, October 4). Domain-general idiosyncratic anchoring of metacognition. <http://doi.org/10.17605/OSF.IO/DJGQ3>
2. Navajas, J., Armand, O., Bahrami, B., & Deroy, O. (2018, April 5). Diversity of opinions promotes herding in uncertain crowds. <http://doi.org/10.17605/OSF.IO/MVY25>

published articles

1. Li, L., Kumano, S., Keshmirian, A., **Bahrami, B.**, Li, J., Wright, N. (2018) Parsing cultural impacts on regret and risk in Iran, China and the United Kingdom. *Scientific Report*.
2. Haller, S., Bang, D., **Bahrami, B.** Lau, J. (2018) Group decision-making is optimal in adolescence. *Scientific Report*.
3. Mahmoodi, A., **Bahrami, B.**, Mehring, C. Reciprocity of social influence. *Nature Communications*. (2018) doi.org/10.1038/s41467-018-04925-y
4. Hertz U, **Bahrami B**, Keramati M. Stochastic satisficing account of confidence in uncertain value-based decisions. *PLoS ONE* 13(4): e0195399. (2018)
5. Navajas, J., Niella, T., Garbulsy, G., **Bahrami, B.**, & Sigman, M. Aggregated knowledge from a small number of debates outperforms the wisdom of large crowds. *Nature Human Behavior* (2018)
6. Sella, F., Blaquey, R., Bang, D., **Bahrami, B** & Cohen-Kadosh, R. Who Gains More: Experts or Novices? The Benefits of Interaction under Numerical Uncertainty. *Journal Of Experimental Psychology Human Perception and Performance* (2018)
7. Hertz, U., Palminteri, S., Brunetti, S., Olesen, C., Frith, CD., **Bahrami, B.** Neural computations underpinning the strategic management of influence in advice giving. *Nature Communications* (2017)
8. Navajas, J., Hindocha, C., Foda, H., Keramati, M., Latham, P. E., & **Bahrami, B.** The idiosyncratic nature of confidence. *Nature Human Behaviour* (2017).
9. Weil, R. S., Pappa, K., Schade, R. N., Schrag, A. E., **Bahrami, B.**, Schwarzkopf, D. S., Crutch, S. J., O'Keefe, A. G. and Morris, H. R. (2017), The Cats-and-Dogs test: A tool to identify visuo-perceptual deficits in Parkinson's disease. *Mov Disord*. doi:10.1002/mds.27176
10. Sadeghi, S., Ekhtiari, H., **Bahrami, B.**, Ahmadabadi, MN. Metacognitive Deficiency in a Perceptual but Not a Memory Task in Methadone Maintenance Patients. *Scientific Report* (2017)
11. Dan Bang, Laurence Aitchison, Rani Moran, Santiago Herce Castanon, Banafshe Rafiee, Ali Mahmoodi, Jennifer Y. F. Lau, Peter E. Latham, **Bahador Bahrami**, and Christopher Summerfield. Confidence matching in group decision-making. *Nature Human Behaviour* (2017) 1:0117.
12. Seyed-Allaei, S., Nasiriavanaki, Z., **Bahrami, B.**, Shallice, T. Major Thought Restructuring: the roles of different prefrontal cortical regions. *Journal of Cognitive Neuroscience* (2017)
13. Khalighinejad N, **Bahrami B**, Caspar EA, Haggard P. Social Transmission of Experience of Agency: An Experimental Study. *Frontiers in Psychology*. (2016) Aug 30;7:1315.
14. Navajas J, **Bahador B** and Latham PE. Post-decisional accounts of biases in confidence. *Current Opinion in Behavioral Sciences* (2016) 11:55-60
15. Pescetelli, N., Rees, G., **Bahrami, B.** The perceptual and social components of metacognition. *Journal of Experimental Psychology: General*. (2016) 145(8):949-65.
16. Pishnamazi, M., Tafakhori A., Loloee, S., Modabbernia, A., Aghamollaii, V., **Bahrami, B.**, Winston JS. Attentional bias towards and away from fearful faces is modulated by developmental amygdala damage. *Cortex* (2016) 81:24-34.
17. Hertz, U., Kelly M., Routledge, R., Winston, J., Wright, D., Dolan, R.J., **Bahrami, B.** Oxytocin Effect on Collective Decision Making: A Randomized Placebo Controlled Study. *PLoS One* (2016). 11(4)e0153352
18. Aitchison L, Bang D, **Bahrami B**, Latham PE (2015) Doubly Bayesian Analysis of Confidence in Perceptual Decision-Making. *PLoS Comput Biol* 11(10): e1004519.
19. Hertz, U., Romand-Monnier, M., Kyriakopoulou, K., & **Bahrami, B.** Social Influence Protects Collective Decision Making From Equality Bias. *Journal of Experimental Psychology: Human Perception and Performance*. (2016). 42(2):164-172
20. 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
21. Megumi F, **Bahrami B**, Kanai R, Rees G. Brain activity dynamics in human parietal regions during spontaneous switches in bistable perception. *NeuroImage*.(2015). 107:190-197.
22. 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*. (2015). 10(5): 690-699
23. 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) 100:161-75.
24. Bisazza, A., Butterworth, B., Piffer, L., **Bahrami, B.**, Petrazzini, M.E.M., Agrillo, C. Collective enhancement of numerical acuity by meritocratic leadership in fish. *Scientific Report*. (2014) 4:4560
25. 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.

- Consciousness & Cognition*. (2014). 26:13-23
26. Stolte, M.J., **Bahrami, B.**, Lavie, N., High perceptual load leads to both reduced gain and broader orientation tuning *Journal of Vision*. (2014). 14:9
 27. Mahmoodi A, Bang D, Ahmadabadi MN, **Bahrami B** Learning to Make Collective Decisions: The Impact of Confidence Escalation. *PLoS ONE* (2013). 8(12): e81195.
 28. Ditye, T, Kanai, R., **Bahrami, B.**, Muggleton, N.G., Rees, G., Walsh, V. Rapid changes in brain structure predict improvements induced by perceptual learning. *Neuroimage*. (2013) 81:205-12.
 29. Cullen, H., Kanai, R., **Bahrami, B.**, & Rees, G. Individual differences in anthropomorphic attributions and human brain structure. *Soc Cogn Affect Neurosci*. (2013). 9(9) 1276-80.
 30. Athorp, D., Schwarzkopf, D.S., Kaul, C., **Bahrami, B.**, Alais, D., Rees, G. Direct evidence of motion streaks in human visual cortex. *Proc. R. Soc. B* (2013). 280(1752):20122339.
 31. Gialie-Dotan, S., Kanai, R., **Bahrami, B.**, Rees, G., Saygin, A. P. Neuroanatomical correlates of biological motion detection. *Neuropsychologia* (2013) 51(3) 457-63
 32. 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*.
 33. 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.
 34. Konstantinou, N., **Bahrami, B.**, Rees, G., Lavie, N. (2012) Visual short-term memory load reduces retinotopic response to contrast. *Journal of Cognitive Neuroscience*
 35. **Bahrami, B.**, Didino, D., Frith, C., Butterworth, B., Rees, G. Collective Enumeration. (2012) *J Exp Psychol Hum Percept Perform* 39(2):338-347.
 36. 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
 37. **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
 38. 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.
 39. 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
 40. 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.
 41. **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.
 42. 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.
 43. 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.
 44. **Bahrami, B.**, Frith, C. (2011) Interacting Minds: A Framework for Combining Process- and Accuracy-Oriented Social Cognitive Research. *Psychological Inquiry*. 22(3): 183-6.
 45. 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.
 46. 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.
 47. 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
 48. 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.
 49. 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.
 50. 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.
 51. Kanai, R., **Bahrami, B.**, Rees, G. (2010) Human parietal cortex structure predicts the individual differences in perceptual rivalry. *Current Biology*. 20: 1626-30.
 52. **Bahrami, B.**, Olsen, K., Latham, P., Roepstorff, A., Rees, G., Frith, C. (2010). Optimally interacting minds. *Science*. 329: 1081-1085.
 53. 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
 54. Buetti, 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.
 55. **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.
 56. Vetter, P., Butterworth, B., and **Bahrami, B.** (2008) Modulating attentional load affects numerosity estimation: Evidence against a pre-attentive subitizing mechanism. *PLoS ONE*.
 57. Meteyard, L., Zokaei, N., **Bahrami, B.** & Vigliocco, G. (2008) Visual motion interferes with lexical decision on motion words. *Current Biology* 18(17), R732-R733.
 58. **Bahrami, B.**, Carmel, D., Walsh, V., Rees, G., Lavie, N. (2008). Spatial attention can modulate unconscious orientation processing. *Perception*. 37(10):1520-8.
 59. Buetti, D., **Bahrami, B.**, Walsh, V. (2008) Sensory and association cortex in time perception. *Journal of Cognitive Neuroscience* 20: 1054-1062.
 60. Kaul, C., **Bahrami, B.** (2008). Subjective experience of motion or attentional selection of a categorical decision. *Journal of Neuroscience* 28(16), 4110-4112.
 61. **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.
 62. **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].
63. Meteyard, L., **Bahrami, B.**, Vigliocco, G. (2007). Motion detection and motion verbs: Language affects low-level visual perception. *Psychological Science* 18(11), 1007-1013.
 64. **Bahrami, B.**, Seyedsadjadi, R., Babadi, B., Noroozian, M. (2005). Brain complexity increases in mania. *NeuroReport* 16, 187-191.
 65. **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