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Open Science Framework: [osf.io/mpnxu](https://osf.io/mpnxu)

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## Joseph Barnby

### EDUCATION

- 2017 – 2021 **PhD Cognitive Neuroscience & Psychopharmacology** Kings College London  
Thesis: *The Neurocognitive mechanisms of paranoia*  
Supervisors: Prof Mitul Mehta, Dr Vaughan Bell, Dr Quinton Deeley  
London, UK
- 2015 - 2016 **MSc Clinical Mental Health Science (Distinction)** University College London  
*Clinical assessment, theory, and aetiology*  
London, UK
- 2008 - 2011 **BSc (Hons) Psychology with Neuroscience (2:1)** University of Leicester  
*Cognitive psychology, molecular, cellular and systems neuroscience*  
Leicester, UK

### RESEARCH & CLINICAL POSITIONS

- 2020 – Present **Visiting Doctoral Fellow** University of Western Australia  
Perth, Australia
- 2017 – Present **Medical Research Council Doctoral Training Fellow** Kings College London  
Thesis: *The Neurocognitive mechanisms of paranoia*  
Supervisors: Prof Mitul Mehta, Dr Vaughan Bell, Dr Quinton Deeley  
London, UK
- 2016 - Present **Psychologist & Research Scientist** Thrive Therapeutic Software  
*Clinical assessment, support, science communication, CBT*  
London, UK
- 2016 - 2017 **Research Assistant, Division of Psychiatry** University College London  
Social Cognition & Psychosis Group of Dr Vaughan Bell  
London, UK
- 2016 **Research Assistant, Division of Psychiatry** University College London  
HEE CRHTT 2016 National Survey of Mental Health Services  
London, UK
- 2016 **Assistant Psychologist, Royal London Hospital,** The Royal London Hospital  
Integrated into the Emergency Psychological Medicine Team  
London, UK
- 2014 - 2015 **Research Assistant, MAPrc** Monash University  
Neural correlates of mindfulness practice  
Melbourne, AU
- 2013 - 2014 **Associate Research Fellow,** Birkbeck  
Dynamic Memory and Cognition Lab of Prof Eddy Davelaar  
London, UK
- 2012 **Health Care Assistant** Kamla Nagar Hospital  
Internal, General, Surgical Medicine  
Jodhpur, India

### TEACHING & SUPERVISION EXPERIENCE

- 2017 – present **Graduate Teaching Position, MSc Neuroscience** King's College London  
London, UK
- 2018 – 2019 **Leyla Bolton, MSc Thesis** King's College London  
London, UK
- 2017 – 2018 **Small Group Tutor, MSc Clinical Mental Health** King's College London  
London, UK

## TECHNICAL SKILLS

<b>R</b>	Expert
<b>Stan</b>	Competent
<b>Julia</b>	Competent
<b>Markdown</b>	Competent
<b>Github/Git</b>	Competent
<b>Python</b>	Competent
<b>Java</b>	Beginner
<b>Adobe Suite &amp; GIMP</b>	Competent
<b>Crowdsourcing</b> (e.g. Prolific.ac, Mturk)	Expert
<b>Game theory experimental design</b>	Expert
<b>Online experimental deployment</b> (e.g. Psychopy, Gorilla.sc)	Expert
<b>Lab experimental deployment</b> (e.g. psychopharmacology)	Expert

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## PUBLIC ENGAGEMENT PROJECTS

2016 – present	<b>Senscapes</b> ( <a href="http://www.senscapes.com">www.senscapes.com</a> )	
	Turning brain data from altered states into immersive experiences.	London, UK
2018 – 2018	<b>Experimental Espresso's</b>	Science Gallery
	Conducting a large public, double-blind control study on caffeine use and cognition.	London, UK
2018 – 2018	<b>King's Experience Award – A Beautiful Mind: Art, Science, and Mental Health</b>	
		London, UK

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## OTHER SKILLS

Six years of experience in life science consultancy

Strong skills in science communication.

Strong writing ability for general audiences.

Strong leadership skills and conceptual director.

Experience with BCI technology, and the conversion of EEG and MEG into sound.

Experience with conducting qualitative interview and phenomenological analysis.

Clinical experience delivering psychotherapy (CBT) to those with severe and common mental illness in digital, phone, and face-to-face services.

## AWARDS AND HONOURS

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2019	BAP Junior Science Communication Award
2019	KCL Neuroscience Communication Award
2018	MRC Science Communication Award
2018	King's Experience Award – A Beautiful Mind: Art, Science, and Mental Health
2017	Team lead of winning team 'Senscapes', winner of 'Best Hack' at HackTheBrain, Dublin 2017 (Horizon 2020)
2017	Funding awarded to attend Mind & Life ESRI Conference
2016	Voted No.1 for student innovation for "Re(Mind)" app, UCL, UK

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## AWARDED GRANTS

2018	Wellcome Trust/ King's College London – Public Engagement Grant – to develop an immersive installation on meditation, £750
2018	Science Gallery London & King's College London – Public engagement grant to develop an immersive and public event, £2000
2017	Horizon 2020: HackTheBrain funding for our team 'Senscapes' to develop our project
2017	MRC Doctoral Training Partnership at King's College London (£84,000 Inc Salary)
2016	UCL Changemakers – app development, £500

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## INVITED TALKS AND PRESENTATIONS

2018	Personalisation Across Disciplines (Durham University; Panellist) Spirits, shadows, and a sense of presence.
2018	EVE "Talking about mental health"
2017	Mind & Life ESRI 2017 Conference Spirits, shadows, and a sense of presence.
2017	BPS Annual Conference Spirits, shadows, and a sense of presence.
2016	Neuropsychopharmacology lab, Imperial College, UK Spirits, shadows, and a sense of presence: validation of the Sensed Presence Questionnaire (SenPQ).
2016	Barclays (with InFocus Training) "Wellbeing and the workplace."

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- Barnby, J.M.**, Deeley, Q., Bell, V., Mehta., M.A., (2020) Dopamine manipulations modulate paranoid social inferences. *Translational Psychiatry*, 10(214). <https://doi.org/10.1038/s41398-020-00912-4>
- Barnby, J.M.**, Bell, V., Mehta., M.A., Moutoussis, M. (2020) Reduction in social learning and increased policy uncertainty about harmful intent is associated with pre-existing paranoid beliefs: evidence from modelling a modified serial dictator game. *PLOS Computational Biology*. DOI: 10.31234/osf.io/jvx5y
- Hampshire, A., Trender, W., Chamberlain, S., Jolly, A., Grant, J. E., Patrick, F., ... **Barnby, J.**, Hellyer, P., & Mehta, M. A. (2020). Cognitive deficits in people who have recovered from COVID-19 relative to controls: An N= 84,285 online study. *medRxiv*.DOI: <https://doi.org/10.1101/2020.10.20.20215863>
- Hertz, U., Bell, V., **Barnby, J.M.**, McQuillin, A., Bahrami, B. (2020) The communication of metacognition for social strategy in psychosis: an exploratory study. *Schizophrenia Bulletin Open Science*, 1(1). DOI: 10.1093/schizbullopen/sgaa058
- Waters, F., **Barnby, J.M.**, Blom, J.D. (2020) Hallucination, imagery, dreaming: Towards an integrated model of stimulus-independent perception based on Parish's classic continuum hypothesis. *Royal Society Philosophical Transactions B*. DOI:10.1098/rstb.2019.0701
- Barnby, J.M.**, Bell, V., Deeley, Q., Robinson, O., Raihani, N., Mehta, M. (2020) Paranoia, sensitisation and social inference: findings from two large-scale, multi-round behavioural experiments. *Royal Society Open Science*, 7(3).
- Barnby, J.M.**, Bell, V., Sheridan-Rains, L., Mehta, M., Deeley, Q. (2019) Beliefs are multidimensional and vary in stability over time – psychometric properties of the Beliefs and Values Inventory (BVI). *PeerJ*, 7: e6819
- Ribanszki, R., **Barnby, J.M.**, Osmani, F., Almasi, S., Tsakanikos, E., Fonseca, JA. (In Submission) Preferences for user experiences in digital smartphone mental health applications: implications for design in adolescents. *JMIR mHealth & uHealth*.
- Davelaar, E., **Barnby J.M.**, Almasi, S., Eatough, V. (2018) Differential subjective experiences in learners and non-learners in EEG neurofeedback: piloting a mixed-method approach. *Frontiers in Human Neuroscience*.
- Lloyd-Evans, B., Lamb, D., **Barnby, J.M.**, Eskinazi, M., Turner, A., Johnson, S. (2018) A National Survey of Crisis Resolution Teams in England, *Psychiatric Bulletin*. 1-6
- Barnby, JM** & Mehta, M. (2018) Psilocybin and Mental Health – Don't Lose Control, *Frontiers in Psychiatry*, 9, 293.
- Barnby, JM** & Fonesca, A. (2017) Digital blind-spots: the role of symptom severity and user experience in digital intervention adherence, *JMIR MHealth UHealth*, Letters <https://t.co/mU8hr2fWnE>
- Barnby, JM** & Bell, V (2017) The Sensed Presence Questionnaire (SenPQ): Initial Psychometric Validation of a Measure of the "Sensed Presence" Experience. *PeerJ*, 5: e3149 <https://doi.org/10.7717/peerj.3149>

**Barnby, JM**, Bailey, NW, Chambers, R., & Fitzgerald, P.B., (2015). How similar are the changes in neural activity resulting from mindfulness practice in contrast to spiritual practice? *Consciousness and Cognition*, 36, 219-232.

#### **PUBLISHED ARTICLES FOR A GENERAL AUDIENCE**

2017-2019 Blog written for Thrive on topics of interest in mental health ([www.thrive.uk.com/blogs](http://www.thrive.uk.com/blogs))  
2018 Beyond My Control: Demonstrating Epilepsy as More Than a Diagnosis. (2018) *The Psychologist*

#### **CONFERENCE SUBMISSIONS**

**Barnby, JM** & Bell, V (2017) Spirits, shadows, and a sense of presence. *Poster Presentation: Mind & Life – European Summer Research Institute 2017, Chiemsee, Germany.*

**Barnby, JM** & Bell, V (2017) Spirits, shadows, and a sense of presence: validation of the Sensed Presence Questionnaire (SenPQ). *Oral Presentation: BPS Annual Conference 2017, Brighton, UK*

**Barnby, JM** (2016) To what extent has smoking cannabis been established as an aetiological factor in psychosis? *Poster Presentation: UCL Psychosis Research Assessment, London, UK.*

Davelaar EJ, **Barnby JM**, Almasi S and Eatough V (2016). Neurophenomenology and neurofeedback: a pilot study. *Front. Hum. Neurosci. Conference Abstract: SAN2016 Meeting.*

Davelaar. EJ, Eatough V, Almasi S, **Barnby JM**, Hickson E, Kevat N and Ramtale C (2016). Neurofeedback training and cognitive performance: a pilot study using an integrated cognitive and phenomenological approach. *Front. Hum. Neurosci. Conference Abstract: SAN2016 Meeting.*

#### **PROFESSIONAL MEMBERSHIPS**

As of 2016 Member of the British Psychological Society  
No. 392013  
As of 2017 Member of the British Neuroscience Association  
No. 29896090  
As of 2018 Member of the British Association for Psychopharmacology

#### **LIFE SCIENCE CONSULTANCY**

2020	<b>Refinitiv</b>	Mental health and the workplace
2019	<b>Record Union</b>	Mental health and music
2019 - present	<b>Thrive</b>	Mental health in the community
2018	<b>Metacell</b>	Brainwaves and music
2015 – 2018	<b>InFocus Training</b>	Mental health and the workplace