

JESSICA MCFADYEN

Cognitive Neuroscientist

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🌐 jjmcfadyen.com

EDUCATION

PhD

Queensland Brain Institute, The University of Queensland

📅 2015 – 2019 📍 Brisbane, Australia

Supervised by Marta I. Garrido & Jason B. Mattingley

Thesis: *"Shortcuts for fear in the hierarchical visual brain"*

Bachelor of Psychological Science (Hons I)

School of Psychology, The University of Queensland

📅 2011 – 2014 📍 Brisbane, Australia

Supervised by Ross Cunningham

Thesis: *"The effect of caricatured faces on neural signatures of empathy"*

ACADEMIC POSITIONS

Research Fellow

Max Planck UCL Centre for Computational Psychiatry and Ageing Research

📅 2019 – present 📍 London, United Kingdom

Supervised by Ray Dolan

Postdoctoral Research Fellow

Queensland Brain Institute, The University of Queensland

📅 2018 – 2019 📍 Brisbane, Australia

Supervised by Oliver Baumann & Jason B. Mattingley

Research Assistant

The University of Queensland

📅 2012–2017 📍 Brisbane, Australia

Various casual positions serving the School of Psychology, the Queensland Brain Institute, and the Queensland Institute of Medical Research

TECHNICAL SKILLS

Programming

- MATLAB
- R
- Python
- JavaScript
- HTML
- CSS

Human neuroimaging

- Univariate & multivariate M/EEG (*SPM, Fieldtrip*)
- Dynamic causal modelling of fMRI and MEG data
- Tractography of diffusion-weighted images (*FSL, MRTrax*)
- Behavioural decision modelling

OTHER POSITIONS

Guest Lecturer

Department of Experimental Psychology, University College London

📅 2020 📍 London, United Kingdom

Master of Research, Brain Sciences

Chair of ECR Executive Committee

Australian Research Council's Centre for Integrative Brain Function

📅 2015 – 2016 📍 Brisbane, Australia

Tutor

Refugee Tutoring Program, The University of Queensland

📅 2015 📍 Brisbane, Australia

PUBLICATIONS

IN PREP. | **McFadyen J**, Liu Y, Wise T, & Dolan R

Differential replay between reward and punishment predicts approach behaviour

IN PREP. | **McFadyen J**, Tsuchiya N, Smout C, Mattingley J B, & Garrido M I

Surprising threats accelerate evidence accumulation for conscious perception

bioRxiv

2021 | **McFadyen J**, Nolan C, Pinocy E, Buteri D, & Baumann O

Doorways do not always cause forgetting: A multimodal investigation

BMC Psychology

2020 | **McFadyen J**, Dolan R J, & Garrido M I

The influence of subcortical shortcuts on disordered sensory and cognitive processing

Nature Reviews Neuroscience

2019 | **McFadyen J**

Investigating the subcortical route to the amygdala across species and in disordered fear responses

Journal of Experimental Neuroscience

2019 | **McFadyen J**, Mattingley J B, & Garrido M I

An afferent subcortical white matter pathway to the amygdala facilitates fear recognition

eLife

2018 | Baumann O, Vromen J M G, Cheung A, **McFadyen J**, Ren Y, & Guo C C

Neural correlates of temporal complexity and synchrony during audiovisual correspondence detection

eNeuro

2017 | Bret, A, Beffara B, **McFadyen J**, & Mermillod M

Right wing authoritarianism is associated with race bias in face detection

PLoS One

2017 | **McFadyen J**, Mermillod M, Mattingley J B, Halász V, & Garrido M I

A rapid subcortical amygdala route for faces irrespective of spatial frequency and emotion

Journal of Neuroscience

2015 | Bednark J G, Poonian S K, Palghat K, **McFadyen J**, & Cunnington R

Identity-specific predictions and implicit measures of agency

Psychology of Consciousness: Theory, Research, and Practice

2015 | Cao Y, Contreras-Huerta L S, **McFadyen J**, & Cunnington R

Racial bias in neural response to others' pain is reduced with other-race contact

Cortex

2015 | Poonian S K, **McFadyen J**, Ogden J, & Cunnington R

Implicit agency in observed actions: Evidence for N1 suppression of tones caused by self-made and observed actions

Journal of Cognitive Neuroscience

CONFERENCE PRESENTATIONS

Donders Institute Autism Symposium

 2021  *Virtual*  Presentation (invited)

Affective Brain Meeting

 2019  *London, United Kingdom*  Presentation (invited)

Max Planck Computational Psychiatry Seminar

 2019  *London, United Kingdom*  Presentation

Australasian Cognitive Neuroscience Society Conference

 2018  *Melbourne, Australia*  Presentation

Association for the Scientific Study of Consciousness

 2018  *Krakow, Poland*  Presentation

Systems and Computational Neuroscience Down Under

 2017  *Brisbane, Australia*  Poster

International Cognitive Neuroscience Conference

 2017  *Amsterdam, Netherlands*  Poster


Centre for Integrative Brain Function, Annual Meeting

 2016  *Hobart, Australia*  Presentation

Australasian Cognitive Neuroscience Society Conference

 2016  *Shoal Bay, Australia*  Symposium

Organisation for Human Brain Mapping Conference

 2016  *Geneva, Switzerland*  Poster

Systems and Computational Neuroscience Down Under

 2015  *Brisbane, Australia*  Poster

Australasian Cognitive Neuroscience Society Conference

 2015  *Auckland, New Zealand*  Presentation

University of Queensland Undergraduate Conference

 2014  *Brisbane, Australia*  Presentation

AWARDS

Paxinos-Watson Prize for

Most Significant Neuroscience Paper

2020 | Australasian Neuroscience Society – AUD \$500

Candidate Development Award

2017 | The University of Queensland – AUD \$5,000

Lyn Beazley Award for Outstanding Contribution

2016 | Australian Research Council's Centre for Integrative Brain Function

Early Career Travel Award

2016 | Australian Research Council's Centre for Integrative Brain Function – AUD\$1,000

Student Travel Award

2015 | Australasian Cognitive Neuroscience Society (ACNS) Conference – AUD \$1,000

Australian Postgraduate Award

2014 | Australian Department of Education and Training

Best Oral Presentation

2014 | The University of Queensland Undergraduate Conference – AUD \$1,000