

# JESSICA MCFADYEN

Cognitive Neuroscientist

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🌐 jjmcfadyen.com

Last updated on 14 April 2020

## EDUCATION

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### 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 Cunnington

Thesis: “The effect of caricatured faces on neural signatures of empathy”

## ACADEMIC POSITIONS

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### 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

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### Programming

- MATLAB
- JavaScript
- R
- HTML
- Python
- 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

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### 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

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

Surprising threats accelerate evidence accumulation for conscious perception

*bioRxiv*

2020 | **McFadyen J**

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 NI suppression of tones caused by self-made and observed actions

*Journal of Cognitive Neuroscience*

## CONFERENCE PRESENTATIONS

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Australasian Cognitive Neuroscience Society (ACNS) Conference

 2018  Melbourne, Australia  Presentation

Association for the Scientific Study of Consciousness (ASSC) Conference

 2018  Krakow, Poland  Presentation

Systems and Computational Neuroscience Down Under (SCiNDU) Conference

 2017  Brisbane, Australia  Poster

International Cognitive Neuroscience Conference (ICON)

 2017  Amsterdam, Netherlands  Poster

Centre for Integrative Brain Function, Annual Meeting

 2016  Hobart, Australia  Presentation

Australasian Cognitive Neuroscience Society (ACNS) Conference

 2016  Shoal Bay, Australia  Symposium

Organisation for Human Brain Mapping (OHBM) Conference

 2016  Geneva, Switzerland  Poster

Systems and Computational Neuroscience Down Under (SCiNDU) Conference

 2015  Brisbane, Australia  Poster

Australasian Cognitive Neuroscience Society (ACNS) Conference

 2015  Auckland, New Zealand  Presentation

University of Queensland Undergraduate Conference

 2014  Brisbane, Australia  Presentation

## AWARDS

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Candidate Development Award

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

Student Travel Award

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

Lyn Beazley Award for Outstanding Contribution

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

Australian Postgraduate Award

2014 | Australian Department of Education and Training

Early Career Travel Award

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

Best Oral Presentation

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