

# THOMAS OLIVER MURRAY

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## RESEARCH EXPERIENCE

<b>Postdoctoral Research Associate</b>	<i>University of Cambridge</i>	<i>Mar 2023 – Present</i>
Lead projects combining neuroimaging, physiological, behavioural, and hormonal data to study learning under uncertainty.		
Collect and analyse ECG, PPG, and skin conductance data to derive indices of arousal and autonomic state.		
Apply Bayesian and machine learning models to infer latent cognitive mechanisms predictive of psychiatric symptoms.		
<b>Postdoctoral Research Assistant</b>	<i>Queen Mary University of London</i>	<i>Oct 2021 – Feb 2023</i>
Used genetic algorithms and machine learning to model individual differences in emotional representation, and relation to psychiatric risk factors.		
<b>Honorary Research Fellow</b>	<i>Brunel University London</i>	<i>Nov 2020 – Nov 2021</i>
Studied lifespan changes in neural network connectivity during emotional processing.		

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## TECHNICAL SKILLS

<b>PROGRAMMING AND ANALYSIS</b>	Python, MATLAB, Bash scripting, GitHub
<b>METHODS</b>	Bayesian modelling, machine learning, time-series analysis, neuroimaging (MRI), psychophysiology (ECG, PPG, skin conductance)
<b>DATA SCIENCE</b>	NumPy, SciPy, scikit-learn, pandas, Jupyter
<b>ACADEMIC</b>	Experimental design, advanced statistics, data visualisation, open science, preregistration, public dissemination of results

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## EDUCATION

<b>PhD</b>	<b>Cognitive Neuroscience</b>	<i>2016 – 2020</i>
	<i>Brunel University London</i>	
<b>MSc</b>	<b>Cognitive Neuroscience</b>	<i>2014 – 2015</i>
	<i>University of Essex</i>	
<b>BSc</b>	<b>Psychology</b>	<i>2011 – 2014</i>
	<i>University of Essex</i>	

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## AWARDS

<b>Grindley Grant:</b> £500, Experimental Psychology Society	<i>2019</i>
<b>PhD Scholarship:</b> £16,296 annual stipend, Brunel University London	<i>2016 – 2019</i>
<b>Postgraduate Support Scheme:</b> £5,000, University of Essex	<i>2014</i>

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## TEACHING AND SUPERVISION

<b>Undergraduate supervisor</b>	<i>The University of Cambridge</i>	<i>2023 – present</i>
<b>Hourly Paid Lecturer</b>	<i>Brunel University London</i>	<i>2021 – present</i>
<b>Statistics Advisor</b>	<i>Academic Skills and Advice Team, Brunel University London</i>	<i>2017 – 2019</i>
<b>Graduate Teaching Assistant</b>	<i>Brunel University London</i>	<i>2016 – 2019</i>
<b>Lab Assistant and Graduate Demonstrator</b>	<i>University of Essex</i>	<i>2014 – 2015</i>

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## PUBLICATIONS

- Murray, T., Binetti, N., Venkataramaiyer, R., Namboodiri, V., Cosker, D., Viding, E., & Mareschal, I. (2024). Expression perceptive fields explain individual differences in the recognition of facial emotions. *Communications Psychology*, 2(1), 62.
- Murray, T., Binetti, N., Carlisi, C., Namboodiri, V., Cosker, D., Viding, E., & Mareschal, I. (2024). Genetic algorithms reveal identity independent representation of emotional expressions. *Emotion*, 24(2), 495.
- Murray, T., O'Brien, J., Sagiv, N., & Kumari, V. (2022). Changes in functional connectivity associated with facial expression processing over the working adult lifespan. *Cortex*, 151, 211-223.
- Murray, T., O'Brien, J., Sagiv, N., & Garrido, L. (2021). The role of stimulus-based cues and conceptual information in processing facial expressions of emotion. *Cortex*, 144, 109-132.
- Murray, T., & Lawson, R.P. (**Under review**) Negative affect interacts with perceptual affective biases.

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## CONFERENCES

- Oral presentations at the **British Association of Cognitive Neuroscience** meeting (September 2025, Edinburgh, UK; September 2019, Cambridge, UK).
- Poster presentations at the **British Association of Psychopharmacology** summer meetings (June 2025, Manchester, UK; June 2024, Birmingham, UK).
- Oral presentations at the **Experimental Psychology Society** meetings (January 2025, London, UK; July 2019, Bournemouth).
- Poster presentation at the **Conference of the International Society for Research on Emotion** (July 2022, Los Angeles, USA).
- Oral presentation at the **British Society for the Psychology of Individual Differences** meeting (April 2019, Brunel University, UK).
- Poster presented at the **British Association of Cognitive Neuroscience** meeting (September 2017, Plymouth, UK).