THOMAS OLIVER MURRAY

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RESEARCH EXPERIENCE

Postdoctoral Research Associate — *University of Cambridge* — *Mar 2023 – Present*

I am currently working under the supervision of Professor Rebecca Lawson, to investigate the computational mechanisms supporting decision making and learning under uncertainty, and their relation to psychiatric symptoms. Here, I use a combination of computational modelling, neuroimaging, and pharmacology.

Postdoctoral Research Assistant — *Queen Mary University of London* — *Oct 2021 – Feb 2023*

Here, I investigated how people represent emotions, and how these representations may be related to psychiatric risk factors, using genetic algorithms and machine learning approaches.

Postdoctoral Research Assistant — *Kings College London* — *Mar 2021 – Jun 2021*

In this role, I worked on a project investigating the neural processing of emotional expressions in schizophrenia. I investigated the cognitive and personality factors that can account for changes in functional network connectivity in schizophrenia.

Honorary Research Fellow — *Brunel University London* — *Nov 2020 – Nov 2021*

After finishing my PhD, I continued my research at Brunel as an honorary fellow, and conducted research investigating how functional network connectivity during the processing of facial expressions changes across the adult lifespan

EDUCATION

PhD **Cognitive Neuroscience** *2016 – 2020*
Brunel University London

MSc **Cognitive Neuroscience** *2014 – 2015*
University of Essex

BSc **Psychology** *2011 – 2014*
University of Essex

SKILLS

Data Analysis

- Analysis of behavioural and neuroimaging data
- Bayesian approaches to computational modelling
- Machine learning and pattern classification
- Psychophysical threshold estimation procedures
- Use of statistical packages (SPSS, JMP, Jamovi)

Programming

- Visual presentation of stimuli and collection of responses using MATLAB
- Advanced data analysis and visualisation using MATLAB and Python
- Shell scripting for high performance computing

Academic

- Experimental design and data collection
- Dissemination of research results
- Multidisciplinary collaboration
- Engagement with Open Science practises

TEACHING EXPERIENCE

Undergraduate supervisor	*The University of Cambridge*	*2023 – 2025*
Hourly Paid Lecturer	*Brunel University London*	*2021 – 2023*
Statistics Advisor	*Academic Skills and Advice Team, Brunel University London*	*2017 – 2019*
Graduate Teaching Assistant	*Brunel University London*	*2016 – 2019*
Lab Assistant and Graduate Demonstrator	*University of Essex*	*2014 – 2015*

AWARDS

Grindley Grant: *£500* *2019*
Experimental Psychology Society

PhD Scholarship: *£16,296 annual stipend, plus £500 research expenses and tuition fee waiver* *2016 – 2019*
Brunel University London

Postgraduate Support Scheme: *£5,000* *2014*
University of Essex

PAPERS

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., O'Brien, J., Kumari, V. (**In prep**) Mapping clinical insight in schizophrenia.

CONFERENCES

Oral presentation at the **Experimental Psychology Society** meeting (January 2025, London, UK).

Poster presentation at the **British Association of Psychopharmacology summer meeting** (June 2024, Birmingham, UK).

Poster presentation at the **Conference of the International Society for Research on Emotion** (July 2022, Los Angeles, USA).

Oral presentation at the **Experimental Psychology Society Meeting** (July 2019, Bournemouth, UK)

Oral presentation at the **British Association of Cognitive Neuroscience Meeting** (September 2019, Cambridge, UK).

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).