# Joshua Corbett

# joshjcorbett@gmail.com

### **EDUCATION**

2022- MPhil (Cognitive Neuroscience), University of Melbourne (finishing February 2024)
2018-2021 Bachelor of Psychology (Psychology and Neuroscience), University of Sydney First class honours and the University Medal. **Weighted average mark: 93** 

### **AWARDS AND HONOURS**

2022 University Medal recipient, University of Sydney

2021 Lithgow Scholarship VII, awarded for the highest average mark across senior

undergraduate psychology units, University of Sydney

2019-2021 Dean's List of Excellence in Academic Performance - award received each year

from 2019-2021 for undergraduate excellence (yearly average mark greater than

85), University of Sydney

### RESEARCH FUNDING

ILOLAHOHI	ONDING
2022	\$16,000 AUD grant awarded by the Melbourne School of Psychological Sciences
	to conduct highly novel research using the 7-Tesla MRI scanner at the University of
	Melbourne
2022	Pagearch Training Program Stipped and Eac Offeet \$125,000 ALID funding for

2022 Research Training Program Stipend and Fee Offset - **\$125,000 AUD** funding for living expenses and tuition fees during MPhil at the University of Melbourne

2021 Denison Research Scholarship - **\$3000 AUD** scholarship for a four-week formal

research internship at the University of Sydney

## **CONFERENCE AND INVITED TALKS**

2023	Australasian Cognitive Neuroscience Society annual meeting: 'Top-down vs
	bottom-up origins of sensory uncertainty in early visual cortex' (Open Talk)
2023	Predictive Brain Lab (PI: Floris de Lange), Donders Institute for Brain, Cognition,
	and Behaviour
2023	Visual Perception Lab (PI: Peter Kok), University College London
2023	Layer-fMRI special interest group, Donders Institute for Brain, Cognition, and
	Behaviour
2023	Flash talk at the Cognitive Neuroscience Hub rebranding event, University of
	Melbourne (best student presentation award)

### **PREPRINTS**

Holcombe, A. O., & **Corbett, J. J.** (2023, December 20). Temporal errors: Researchers should stop studying the flash-lag effect. <a href="https://doi.org/10.31234/osf.io/swzr7">https://doi.org/10.31234/osf.io/swzr7</a>

# **SKILLS**

- Computer programming (Python, shell scripting, R, MATLAB)
- 7T fMRI
- Experimental design
- High performance computing
- Statistics
- Machine learning
- Github
- Psychophysics

### **TEACHING**

2023	TA for Research Methods for Human Inquiry (PSYC30013), University of Melbourne
2022	TA for The Integrated Brain (PSYC30020), University of Melbourne
2022	TA for Neuroscience and the Mind (PSYC30018), University of Melbourne

### **OPEN SCIENCE**

I am committed to transparent science that is openly accessible. To this end, I have published code for running experiments to Github (<a href="https://github.com/joshjcorbett/layer uncertainty task">https://github.com/joshjcorbett/layer uncertainty task</a>), and made contributions to existing open source software (<a href="https://github.com/jeheelab/TAFKAP">https://github.com/jeheelab/TAFKAP</a>).

### **SCIENCE COMMUNICATION**

I am passionate about presenting science to broader audiences. In line with this, I recently volunteered to present my MPhil research at a public event showcasing cognitive neuroscience research at the University of Melbourne. This talk was recorded and made available online (https://youtu.be/HRmnTnmv\_Z4?si=1IFCXPs5IEviKrZD).

### OTHER RESEARCH EXPERIENCE

MPhil thesis - I conceived of, designed, and conducted a novel layer-specific fMRI 2022-2024 study investigating how sensory uncertainty is encoded. This was the first layerspecific fMRI study conducted at the University of Melbourne, meaning that I was responsible for sequence optimisation and developing a custom pre-processing pipeline for this data 2021 Fourth-year psychology honours thesis - I conceived of, designed, and conducted three psychophysical experiments investigating the role of attention in a novel visual illusion. This thesis was conducted under the supervision of Professor Alex Holcombe at the University of Sydney (https://thesiscommons.org/n5v4b) 2021 Summer science research internship - I designed and coded a psychophysical experiment testing the fidelity of visual imagery, under the supervision of Professor Thomas Carlson and Dr Alexander Sulfaro 2019-2020 Volunteer research assistant in the Social Cognition and Individual Differences Lab

at the University of Sydney, assisting Dr James Morandini and Associate Professor

llan Dar-Nimrod with data collection and experimental design

### **EXTRACURRICULAR INVOLVEMENTS**

2022-2024 Committee member and peer mentor for the Graduate Researchers in Psychological Sciences Society, University of Melbourne
2018-2021 Sponsorship officer for the University of Sydney Film Society