

WILLIAM TURNER

[Personal Website](#) | [Email](#) | [Google Scholar](#)

EMPLOYMENT

Postdoctoral Researcher Department of Psychology, Stanford University	2024–
Postdoctoral Researcher Timing Lab, QUT & The University of Melbourne <i>Promoted to Level B in 2023</i>	2021–2024
Research Assistant Decision Neuroscience Lab, The University of Melbourne	2016–2017

EDUCATION

PhD Cognitive Psychology, The University of Melbourne Visiting scholar at MetaLab, UCL	2017–2021
BSc Psychology & Neuroscience, The University of Melbourne <i>1st class honours</i>	2013–2016

GRANTS AND AWARDS

Australian American Association Award \$20,000 USD	2024
QUT Early Career Researcher Ideas Scheme \$21,885 AUD	2023
Postdoctoral Oral Award, ACNS 2021	2021
Decision Science Hub Research Support Scheme \$2000 AUD	2021
Shortlisted for Best PhD Thesis Award & Chancellors Prize	2021
Istvan Tork Oral Award, ANS 2018	2018
Student Travel Award, ANS 2018	2018
People's Choice Award, MSPS PhD Conference	2018
Research Training Program Scholarship \$31,200 AUD p.a. x 3.5 years	2017
Honours Oral Award, ACNS 2016	2016
Deans Honours List Top 3% (2015) & 1.5% (2016) of students in the Faculty of Science	2015 – 2016

PUBLICATIONS

Turner, Kwon, Kim, & Hogendoorn (In Revision). Rapid re-weighting of sensory inputs and predictions in visual perception. *Neural Computation*. [Preprint](#)

Cottier, **Turner**, Chae, Holcombe, & Hogendoorn (In Revision). No evidence that individual alpha frequency (IAF) represents a mechanism underlying motion-position illusions. *European Journal of Neuroscience*. [Preprint](#)

Turner, Parvizi, & Gwilliams (Provisionally Accepted). Spatiotemporal tracking of phonetic content and probability in the human brain during continuous speech understanding. CCN 2-page report.

Turner, Sexton, Johnson, Wilson & Hogendoorn (Provisionally Accepted). Predictable motion is progressively extrapolated across temporally distinct processing stages in the human visual cortex. *PLOS Biology*. [Preprint](#)

Melling, **Turner** & Hogendoorn (2024). Concurrent perception of competing predictions: a “Split-Stimulus Effect”. *Journal of Vision*. [Paper](#)

Turner, Sexton & Hogendoorn (2024). Neural mechanisms of visual motion extrapolation. *Neuroscience and Biobehavioral Reviews*. [Paper](#)

Cottier, **Turner**, Holcombe & Hogendoorn (2023). Exploring the extent to which shared mechanisms contribute to motion-position illusions. *Journal of Vision*. [Paper](#) | [Code](#) + [Data](#)

Turner, Blom & Hogendoorn (2023). Visual information is predictively encoded in occipital alpha/low-beta oscillations. *The Journal of Neuroscience*. [Paper](#) | [Code](#) + [Data](#)

Turner (2023). Perceiving the probable present. *Nature Reviews Psychology*. [Paper](#)

Ko, Feuerriegel, **Turner**, Overhoff, Niessen, Stahl, Hester, Fink, Weiss & Bode (2022). Divergent effects of absolute evidence magnitude on decision accuracy and confidence in perceptual judgements. *Cognition*. [Paper](#)

Turner (2022). Unravelling the neural mechanisms which encode rapid streams of visual input. *The Journal of Neuroscience*. [Paper](#)

Turner, Feuerriegel, Hester & Bode (2022). Initial sensory information biases the likelihood and speed of subsequent changes of mind. *PLOS Computational Biology*. [Paper](#) | [Code](#) + [Data](#)

Feuerriegel, Jiwa, **Turner**, Andrejević, Hester & Bode (2021). Tracking dynamic adjustments to decision making and performance monitoring processes in conflict tasks. *NeuroImage*. [Paper](#) | [Code](#) + [Data](#)

Andrejević, Feuerriegel, **Turner**, Laham & Bode (2021). How do Basic Personality Traits Map onto Moral Judgements of Fairness-related Actions. *Social Psychology and Personality Science*. [Paper](#) | [Code](#) + [Data](#)

Turner, Angdias, Feuerriegel, Chong, Hester & Bode (2021). Perceptual decision confidence is sensitive to foregone effort expenditure. *Cognition*. [Paper](#) | [Code + Data](#)

Andrejević, Feuerriegel, **Turner**, Laham & Bode (2020). Moral Judgements of Fairness-Related Actions are Flexibly Updated to Account for Contextual Information. *Scientific Reports*. [Paper](#) | [Code + Data](#)

Turner, Feuerriegel, Andrejević, Hester & Bode (2020). Perceptual change-of-mind decisions are sensitive to absolute evidence magnitude. *Cognitive Psychology*. [Paper](#) | [Code + Data](#)

Turner, Johnston, de Boer, Morawetz & Bode (2017). Multivariate pattern analysis of event-related potentials predicts the subjective relevance of everyday objects. *Consciousness and Cognition*. [Paper](#)

CONFERENCE PRESENTATIONS AND TALKS

Turner (2024). Exploring object localisation via visual position illusions. Stanford Vision Brunch. * **Invited Talk**

Turner (2022). Investigating prediction and delay compensation in the neural encoding of moving objects. Bogacz Lab, University of Oxford; Kok Lab, University College London; Centre de Recherche Cerveau et Cognition (CerCo), Toulouse.

Turner, Blom, Hogendoorn (2022). Decoding visual predictions from occipital alpha oscillations. European Conference on Visual Perception, Nijmegen, Netherlands. (Oral)

Turner (2022). Investigating the predictive encoding of moving objects. BEPSI, The University of Queensland. * **Invited Talk**

Turner, Blom, Hogendoorn (2021). Investigating the encoding of predictive sensory representations in EEG frequency spectra. Australasian Cognitive Neuroscience Society, Virtual Conference. (Oral) * **Best Oral Award**

Turner (2020). How we evaluate and overrule our perceptual decisions. Decision Science Hub Seminar, The University of Melbourne. * **Invited Talk**

Turner (2020). Information processing dynamics underlying perceptual changes of mind. MetaLab, University College London.

Angdias, **Turner**, Feuerriegel, Hester, Bode (2019). Perceptual decision confidence is sensitive to foregone effort expenditure. Australasian Cognitive Neuroscience Society, Tasmania, Australia (Oral) * **Best Oral Award**

Turner, Feuerriegel, Andrejevic, Hester, Bode (2019). The effect of absolute evidence magnitude on perceptual changes of mind. Association for the Scientific Study of Consciousness, London, Ontario. (Oral)

Turner, Feuerriegel, Andrejevic, Hester, Bode (2019). Australasian Mathematical Psychology Conference, Melbourne, Australia. (Oral)

Turner, Feuerriegel, Andrejevic, Hester, Bode (2018). Perceptual change-of-mind decisions are sensitive to absolute evidence magnitude. Australasian Neuroscience Society, Brisbane, Australia. (Oral) * **Oral Award**

Turner, Feuerriegel, Andrejevic, Hester, Bode (2018). The effect of absolute evidence magnitude on perceptual changes of mind. Australasian Cognitive Neuroscience Society, Melbourne, Australia. (Oral)

Turner, Feuerriegel, Andrejevic, Hester, Bode (2018). The effect of absolute evidence magnitude on perceptual changes of mind. MSPS Annual PhD Student Conference, Melbourne, Australia. (Oral) * **People's Choice Award**

Turner, Johnston, de Boer, Morawetz, Bode (2016). Multivariate pattern analysis of event-related potentials predicts the general desirability of objects. Australasian Cognitive Neuroscience Society, Newcastle, Australia. (Oral) * **Best Oral Award**

TEACHING

Postdoctoral Teaching Certificate <i>Stanford University</i>	2024–
Guest Presenter , Language Neuroscience Seminar <i>Stanford University</i> (Host: Laura Gwilliams)	2024
Guest Presenter , Undergraduate Neuroscience Seminar <i>University of Queensland</i> (Host: Derek Arnold)	2024
Guest Presenter , Psychological Science: Theory & Practice (PSYC30021) <i>University of Melbourne</i> (Host: Daniel Feuerriegel)	2021
Honours Co-Supervisor & Thesis Marker Co-supervised 6 students. All awarded 1 st class honours.	2020–2024
Workshop Co-Presenter , DSH EEG methods workshop <i>University of Melbourne</i>	2019
Undergraduate Tutor , Neuroscience and The Mind (PSYC30018) Nominated for <i>MSPS Teaching Award</i> . <i>University of Melbourne</i>	2018
Exam Marker , 4 th Year Cognitive Neuroscience <i>University of Melbourne</i>	2017

PROFESSIONAL SERVICE

Australasian Neuroscience Society LOC Member ANS2022 (600 + person conference)	2022
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PhD Committee Member Timothy Cottier, Jie Sun	2021–
Ad-hoc Reviewer <i>Nature Communications, NeuroImage, Journal of Cognitive Neuroscience, Cognition, Scientific Reports, Current Psychology</i>	2021–
MDHS ECR Focus Group Member Faculty of Medicine, Dentistry and Health Sciences, University of Melbourne	2021
OHS Committee Member Melbourne School of Psychological Sciences, University of Melbourne	2018–2019
Treasurer of Graduate Researchers in Psychological Sciences Melbourne School of Psychological Sciences, University of Melbourne	2017–2019
Open Day Volunteer The University of Melbourne	2017–2019

SKILLS

Software: Python, MATLAB, R, Git, High Performance Computing (SLURM, PBS)
Hardware: BioSemi ActiveTwo, Biopac TSD121C Dynamometers, ColorCAL MKII Colorimeter

REFERENCES

A/Prof. Laura Gwilliams, Postdoctoral Supervisor
Head of Laboratory for Speech Neuroscience
Stanford University
Email: laura.gwilliams@stanford.edu

A/Prof. Hinze Hogendoorn, Postdoctoral Supervisor
Head of Time in Brain and Behaviour Lab
Queensland University of Technology
Email: hinze.hogendoorn@qut.edu.au

A/Prof. Stefan Bode, Primary PhD Supervisor
Visiting Professor
NYU Abu Dhabi
Email: sb10382@nyu.edu

Dr. Daniel Feuerriegel, PhD Co-Supervisor
Head of The Prediction and Decision-Making Lab
University of Melbourne
Email: daniel.feuerriegel@unimelb.edu.au