

Stuart B. Moore

My academic background lies within cognitive/experimental psychology and neuroscience, with research experience in memory, attention, and auditory distraction. Additionally, I have interests and experience in programming, open research, and the development of open software.



stuartbmoore47@gmail.com
GitHub
ResearchGate
Open Science Framework
ORCID

EDUCATION

2019 – 2022 Doctor of Philosophy in Psychology

PASS WITH NO CORRECTIONS

Primary supervisor: Professor James A. Grange
Secondary supervisor: Dr Sara Spotorno
School of Psychology
Keele University

2018 – 2020 Master of Science (Res) in Psychology

PASS WITH MINOR CORRECTIONS

Primary supervisor: Dr John E. Marsh
Secondary supervisors: Professor Linden J. Ball &
Dr Reyhan Furman
School of Psychology
University of Central Lancashire

2015 – 2018 Bachelor of Science (Hons) in Neuroscience

FIRST CLASS

Academic advisor: Dr Lea Pilgrim
Project supervisor: Dr Oliver Kannape
School of Psychology
University of Central Lancashire

DOCTORAL RESEARCH

“Multidimensional resource allocation: The role of attentional control in the allocation of visual short-term memory resources”

My research investigated the role of attentional control in visual short-term memory (vSTM) resource allocation by combining paradigms which probe vSTM performance with a modified task switching procedure wherein repetitions and switches occur between feature dimensions (colour and orientation), rather than tasks. Bayesian statistical analysis was used throughout, with descriptive modelling (see Bays, Catalao, & Husain, 2009; doi: 10.1167/9.10.7), and explanatory modelling (see Shin & Ma, 2017; doi: 10.1167/17.9.12), also used. Results revealed dimension switching disrupted behavioural measures (accuracy and response time) within a series of change detection switching tasks. However, there was little evidence from continuous report and change localisation switching tasks to suggest any disruption by dimension switching, supported by findings from mixture modelling and computational modelling of the encoding and resource allocation processes.

Available on the [Open Science Framework](#)

OTHER RESEARCH

Masters Research

“Investigating the maintenance of order information in manual-gestural serial recall: Effect of articulatory suppression and irrelevant sound”

Available on Central Lancashire Online Knowledge (CLOK)

Undergraduate Final-year Project

“The effect and reliability of anodal transcranial direct current stimulation over the primary motor cortex on motor learning in the mirror drawing paradigm”

EXPERIENCE

OCT. 2025 – PRESENT

Department of Psychology, Durham University *Research Assistant*

Role is associated with the Hetzler Foundation funded project “Let’s drink on it? The overlooked neuromotivational impact of positive affect on alcohol use and addiction” led by Dr Niklas Ihssen and Professor Milica Vasiljevic.

MAY 2024 – NOV. 2024

AlphaPlus Consultancy *Statistician*

Primary responsibility involved the delivery of various statistical measures from classical test theory and item response theory, including the setting of pass marks for assessments based on previously determined standards. Other duties included the delivery of reports and attendance at board meetings (e.g., General Pharmaceutical Council Board of Assessors). Projects involvement included Royal College of General Practitioners: Simulated Consultation Assessment; General Pharmaceutical Council: Registration Assessment; Scottish Government: National Standardised Assessments; Welsh Government: Personalised Assessments; Hodder Education: Rising Stars.

FEB. 2024 – MAY 2024

University of Law, Leeds *Lecturer*

Psychology at ULaw; Brain and Behaviour; Research Methods in Psychology; Neuroscience of Behaviour; Advanced Research Methods; Cognitive Psychology

JAN. 2023 – FEB. 2024

School of Psychology, Keele University *Teaching Fellow*

PSY-10019: Applied psychology; PSY-10033: Introduction to developmental and social psychology; PSY-10034: Introduction to biological and cognitive psychology; PSY-10038: Science communication; PSY-10040: Answering questions with quantitative data; PSY-20023: Cognitive neuroscience; PSY-20044: Statistics for psychology; PSY-20045: Biological and cognitive psychology; PSY-30067: Individual differences and conceptual issues; PSY-30099: Key readings in cognitive psychology*; PSY-40038: Research apprenticeship in psychology; PSY-40045: Dissertation in psychology; PSY-40107: Enhancing reproducibility in research.

*Module lead

OCT. 2021 – OCT. 2022

School of Psychology, Keele University *Ethics Administrator*

Responsible for administration of ethics application processes for the School of Psychology. This included undergraduate, postgraduate taught/research, and staff ethics applications.

OCT. 2019 – JUNE 2021

School of Psychology, Keele University *Seminar Lead/Marker*

PUBLICATIONS

Moore, S. B. & Grange, J. A. (2025). The impact of dimension switching on visual short-term memory. *Quarterly Journal of Experimental Psychology*. OnlineFirst. doi:10.1177/17470218251404415.

Marsh, J. E., Marois, A., Hurlstone, M. J., Ball, L. J., **Moore, S. B.**, Vachon, F., Schlittmeier, S. J., Röer, J. P., Buchner, A., & Bell, R. (2024). Changing-state irrelevant speech disrupts visual-verbal but not visual-spatial serial recall. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 50(11), 1772–1790. doi:10.1037/xlm0001360.

Grange, J. A. & **Moore, S. B.** (2022). mixtut: An R package for designing, analysing, and modelling continuous report visual short-term memory studies. *Behavior Research Methods*, 54, 2071–2100. doi:10.3758/s13428-021-01688-1

Röer, J. P., Bell, R., Saint-Aubin, J., Sonier, R-P., Marsh, J. E., **Moore, S. B.**, Kershaw, M. B. A., Ljung, R., & Arnström, S. (2021). A multilingual preregistered replication of the semantic mismatch effect on serial recall. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 48(7), 966–974. doi:10.1037/xlm0001066

CONFERENCES & TALKS

Moore, S. B. (May 2022). *Dimension switching impairs visual short-term memory resource allocation*. Keele University & Staffordshire University, Joint Postgraduate Psychology Conference [Keele University].

Moore, S. B. (May 2022). *Dimension switching impairs visual short-term memory resource allocation*. Faculty of Natural Sciences Postgraduate Conference, Keele University [Keele University].

Moore, S. B. & Grange, J. A. (Mar. 2022). *Dimension switching impairs visual short-term memory resource allocation*. Experimental Psychology Society Conference [Keele University].

Moore, S. B., Owen, M., Proctor, P., & Grange, J. A. (July 2021). *Reconfiguration or inertia? Identifying a possible origin of switch costs during visual short-term memory resource allocation*. Experimental Psychology Society Conference [online due to COVID-19; poster].

Grange, J. A., **Moore, S. B.**, & Berry, E. D. J. (Apr. 2021). *mixtut: An R package for designing, analysing, and modelling continuous report visual short-term memory studies*. Experimental Psychology Society Conference [online due to COVID-19; poster].

Moore, S. B. & Grange, J. A. (Apr. 2021). *The impact of dimension switching on visual short-term memory*. Experimental Psychology Society Conference [online due to COVID-19; poster].

Moore, S. B. (Mar. 2021). *Same task, different feature: Using task switching to understand resource allocation in visual short-term memory*. Cognition, Brain, & Behaviour Research Group, School of Psychology, Keele University [online due to COVID-19].

Moore, S. B. & Grange, J. A. (July 2020). *Multi-dimensional change detection: An initial investigation of resource allocation in visual short-term memory*. Experimental Psychology Society Conference [online due to COVID-19; poster].

Moore, S. B. (June 2020). *Multi-dimensional change detection: An initial investigation of resource allocation in visual short-term memory*. Postgraduate Research Conference, School of Psychology, Keele University [online due to COVID-19; poster].

Moore, S. B. (Dec. 2019). *Attentional control of visual short-term memory resources*. Perception, Cognition, & Neuroscience Research Group, School of Psychology, University of Central Lancashire [University of Central Lancashire].

Various fixed-term contracts. Responsible for leading weekly seminars on the first year Introduction to developmental and social psychology module* (PSY-10033) and the first year Introduction to biological and cognitive psychology module** (PSY-10034). This included delivery of teaching materials, discussion of research articles, preparation for assessments (e.g., short-answer questions, essays, group presentations), and marking of assessments. Also responsible for essay marking on the second year Biological and cognitive psychology module.

*Semester 1, 2019/2020 academic year.

**Semester 2, 2019/2020 and 2020/2021 academic year.

NOV. 2018 – JAN. 2019

School of Psychology, University of Central Lancashire

Senior Demonstrator

Primarily responsible for assisting with the supervision of final-year project students alongside my MSc supervisor Dr John Marsh. Responsibilities included ensuring students were trained in relevant techniques (e.g., eye-tracking, psychophysiological recording, functional near-infrared spectroscopy), supervision/assistance during data collection, and providing feedback on dissertation drafts. Also included assisting with delivery of teaching on BSc Neuroscience modules, specifically those involving wet-lab practicals (e.g., dissections, histological staining, immunohistochemical assays).

JUNE 2018 – AUG. 2018

School of Psychology, University of Central Lancashire

Undergraduate Research Intern

Joined an already established project examining the synergistic effects of caffeine and workload stress on executive functioning led by Dr Nikola Bridges. Primary responsibilities included the production of caffeine and placebo capsules, data collection using Cambridge Cognition's Cambridge Neuropsychological Test Automated Battery (CANTAB), and dissemination of results via poster presentation.

SEPT. 2016 – JUNE 2017

School of Psychology, University of Central Lancashire

Dean's List Intern

Worked alongside Dr Edson Filho on the development of an electroencephalogram (EEG) study examining the neural correlates of explicit vs. implicit learning in motor tasks. This included literature reviews, development of experimental paradigms, and testing of Ant Neuro's eego sports portable EEG device.

PROGRAMMING, SCRIPTING, & SOFTWARE

BASIC KNOWLEDGE Git, Linux, SQL, TypeScript

FAMILIAR WITH Gorilla Experiment Builder, JASP, L^AT_EX, PsychoPy, Python, SPSS

PROFICIENT MacOS, Microsoft Office, R, Windows

SERVICE AND OUTREACH

JOURNAL REVIEWING	Auditory Perception & Cognition Collabra: Psychology Journal of Cognitive Psychology Joint review with Professor James A. Grange
COMMITTEE ROLES	Equality, Diversity, and Inclusion Committee School of Psychology, Keele University Apr. 2021 – Oct. 2022
	School Research Committee School of Psychology, Keele University Apr. 2020 – Oct. 2022
	Postgraduate Research Committee School of Psychology, Keele University Apr. 2020 – Oct. 2022
	Organising Committee Keele University & Staffordshire University Joint Postgraduate Psychology Conference May 2022
	Organising Committee: Postgraduate Research Conference Faculty of Natural Sciences, Keele University Apr. 2021; May 2022
	Organising Committee & Co-chair: Postgraduate Research Conference School of Psychology, Keele University July 2020; July 2021
STUDENT ROLES	Postgraduate Research Student Equality, Diversity, & Inclusion Rep School of Psychology, Keele University Apr. 2021 – Oct. 2022
	Postgraduate Research Student Rep School of Psychology, Keele University Apr. 2020 – Oct. 2022
	Chair: University of Central Lancashire Neuroscience Society University of Central Lancashire Sept. 2017 – June 2018
	Secretary: University of Central Lancashire Neuroscience Society University of Central Lancashire Sept. 2016 – June 2017

GRADUATE SUPERVISION

JAN. 2023 – SEPT. 2023	Maria Hussain MSc Dissertation School of Psychology, Keele University
JAN. 2023 – JULY 2023	Zoë Bradshaw-Hilditch MSc Apprenticeship School of Psychology, Keele University
JAN. 2023 – JULY 2023	Mobolaji Akinkugbe MSc Apprenticeship School of Psychology, Keele University

SOFTWARE DEVELOPMENT

R PACKAGES	mixtur An R package for designing, analysing, and modelling continuous report visual short-term memory studies Grange, J. A., Moore, S. B. , & Berry, E. D. J. github.com/JimGrange/mixtur cran.r-project.org/web/packages/mixtur
PYTHON PACKAGES	sdtt: simple detection theory tool An R package for calculation of various detection theory measures Moore, S. B. github.com/s-b-moore/sdtt
	sdtt-py: simple detection theory tool A Python package for calculation of various detection theory measures Moore, S. B. github.com/s-b-moore/sdtt-py

SUPPORTED RESEARCH

GRANTS	Moore, S. B. Internal grants to support doctoral research. <i>School of Psychology, Keele University</i> <i>Faculty of Natural Sciences, Keele University</i> £2,883.82
STUDENTSHIP	Moore, S. B. Competitive, fully-funded PhD studentship. <i>School of Psychology, Keele University</i>

AWARDS AND HONOURS

MAY 2022	Open Research Award Keele University & Staffordshire University Joint Postgraduate Psychology Conference <i>For best Open Science research.</i>
JULY 2021	Postgraduate Research Citizenship Award School of Psychology, Keele University <i>For contributions to the research community and identity of the School of Psychology at Keele University.</i>
JUNE 2021	Open Research Award Keele Doctoral Academy, Keele University <i>For strong contributions to the principles of Open Research during doctoral study.</i>
JUNE 2018	Glen Carrigan Memorial Prize School of Psychology, University of Central Lancashire <i>Best BSc (Hons) Neuroscience research project.</i>
SEPT. 2016 – JUNE 2017	Dean's List Intern School of Psychology, University of Central Lancashire <i>Competitive research internship awarded to applicants who achieved high grades on first-year methods module and demonstrated a keen interest in research.</i>

REFERENCES

References available on request