

James A. Grange, Ph.D.

PERSONAL

Address: School of Psychology, Dorothy Hodgkin Building, Keele University, Keele, Staffordshire, ST5 5BG, United Kingdom

Date of Birth: 19/07/81

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RESEARCH STATEMENT

The mission of my work is to conduct rigorous fundamental research to understand human cognition, and to then use this knowledge to tackle applied and clinical questions. I use behavioural methods together with computational modelling to address my research questions.

ACADEMIC POSITIONS

Keele University, Keele, Staffordshire, UK **July 2010 – Present**

Professor of Cognitive Science (2024–Present); Reader in Cognitive Psychology (2021–2024); Senior Lecturer 2016–2021; Lecturer 2010–2016. Key roles include:

- School Director of Research & REF UoA4 Lead (2023–Present)
- University Academic Lead for Research Integrity & Improvement (2019–Present)
- UK Reproducibility Network (UKRN) Institutional Lead (2019–Present)
- Head of School, Psychology (2017–2020)
- Research Lead for Cognition, Brain, & Behaviour Research Group (2014–2017 & 2020–2023)
- Programme Lead for MSc Cognition & Cognitive Neuroscience (2014–2017 & 2020–2022)
- Programme Lead for MSc Cognitive Psychology (2014–2017)

EDUCATION

Keele University, Keele, Staffordshire, UK, **September 2010 – July 2012**
Postgraduate Certificate in Teaching and Learning in Higher Education

Bangor University, Bangor, Gwynedd, UK, **October 2007 – July 2010**
PhD Cognitive Psychology — Pass (no corrections)

Bangor University, Bangor, Gwynedd, UK, **October 2006 – September 2007**
MSc Psychological Research — With Distinction

Bangor University, Bangor, Gwynedd, UK, **October 2003 – July 2006**
BSc Psychology (Hons) — First Class

SUPPORTED RESEARCH

12. **Grange, J.A.**, Stewart, A., & Rosch, E. (2022–2023). Building a psychology Research Data Alliance (RDA) community of practice. *European Open Science Cloud (EOSC) Future Funding*. **€15,000**.
11. **Grange, J.A.**. (2022). Control of stimulus-set and response-set in task switching. *Experimental Psychology Society, Small Grant*. **£5,722**.
10. UK Reproducibility Network, **Grange, J.A.**, as Co-I. (2021–2026). Enhancing UK research excellence: A consortium approach to improving institutional practice. *Research England Development Fund*. £4.5 Million (with **£220,000** to Keele).
9. **Grange, J.A.**, (2019–2022). Competitive PhD studentship application to support Stuart Moore’s doctoral studies. *School of Psychology, Keele University*. **£58,800**.

8. Rydon-Grange, M., Jackson, M., & **Grange, J.A.** (2018–2019). Childhood trauma and hallucinatory experiences in psychosis: the role of dissociation and cognitive inhibition. *Betsi Cadwaladr University Health Board—Pathways to Portfolio Grant*. **£19,930.**
7. **Grange, J.A.** (2017-2018). What role for inhibition in task switching? *Experimental Psychology Society, Small Grant*. **£3,500.**
6. Sherman, S. & **Grange, J.A.** (2017). Exploring the impact of mindfulness on false memory susceptibility. *Research Development Fund. Faculty of Natural Sciences, Keele University*. **£5,000.**
5. Lakens, D, **Grange, J.A.**, Corker, K.S., Hasselman, F., LeBel, E.P., Page-Gould, E., Schoenbrodt, F.D., Spellman, B.A., & van Assen, M. (2016). Examining the reproducibility of meta-analyses in psychology. *Berkley Initiative for Transparency in the Social Sciences*. **\$30,000.**
4. **Grange, J.A.**, (2015–2018). Competitive PhD studentship application to support Agnieszka Kowalczyk’s doctoral studies. *School of Psychology, Keele University*. **£54,324.**
3. Stephens, R., Owen, L. **Grange, J.A.**, & Jones, K. (2012-2014) . Researching and communicating the consequences of alcohol hangover to cognition and health. *European Union Marie Curie Research Fellowship Scheme*. **£148,975.**
2. **Grange, J.A.** (2012-2013). Executive functioning and the voluntary control of action in older adults. *Experimental Psychology Society, Small Grant*. **£2,500.**
1. **Grange, J.A.** (2010-2011) - Research Institute for Social Sciences, Keele University internal grants for various research activities. **£2,825**

ACADEMIC
PUBLICATIONS

Google Scholar Profile: <http://tiny.cc/ScholarProfile>

BOOK

1. **Grange, J.A.**, & Houghton, G. (Eds.) (2014). *Task Switching and Cognitive Control*. New York, NY: Oxford University Press.

ARTICLES IN
PREPARATION

1. Moore, S.B. & **Grange, J.A.** (in preparation). The impact of dimension switching on visual short-term memory.

SUBMITTED
ARTICLES

5. Rydon-Grange, M. & **Grange, J.A.** (under review). Schema functioning across the psychosis continuum: A systematic review.
4. Bogнар, M., van Ravenzwaaij, D., Varga, M.A., Kekecs, Z., **Grange, J.A.**, Gyurkovics, M., & Aczel, B. (under review). Exploratory multiverse simulation approach to assess the impact of arbitrary decisions in reaction time studies.
3. **Grange, J.A.** (under review). Depression symptomatology and perceptual categorisation: A computational modelling approach. *Stage 1 Registered Report*.
2. Martini, A., Edelstyn, N., Weis, L., Tamburin, S., Schifano, R., Books, J., Antovani, E., **Grange, J.A.**, Lauriola, F., Pistonesi, F., Leoni, G., Antonini, A., & Biundo, R. (under review). Sensitivity to negative-feedback processing in people with Parkinson’s disease and impulsive-compulsive behaviours.

1. Rabi, R., Chow, J. **Grange, J.A.**, Hasher, L., Alain, C., & Anderson, N.D. (under review). Computational modelling of selective attention differentiates different subtypes of amnesic mild cognitive impairment.
1. Poole, D., **Grange, J.A.**, & Milne, E. (in principal acceptance). Can location cues facilitate the suppression of non-target stimuli during selective attention? *Accepted Stage 1 Registered Report*
50. **Grange, J.A.** (in press). Control of stimulus-set and response-set in task switching. *Journal of Experimental Psychology: Learning, Memory, & Cognition*.
49. Poole, D., **Grange, J.A.**, & Milne, E. (2024). Putting the spotlight back onto the flanker task in autism: Autistic adults show increased interference from foils compared with non-autistic adults. *Journal of Cognition*, 7(1):46, 1–15.
48. **Grange, J.A.** & Schuch, S. (2023). A spurious correlation between difference scores in evidence accumulation models. *Behavior Research Methods*, 55, 3348–3369.
47. **Grange, J.A.**, De'Bell, H., Stafford, T., Partridge, A., Jacobs, N., Munafo, M., & the UK Reproducibility Network. (2023). *Open research training resources and priorities*. (Working Paper No. 01). UK Reproducibility Network. <https://osf.io/s2f6k/>
46. **Grange, J.A.** (2023). Rumination and inhibition in task switching: No evidence for an association. *Cognition & Emotion*, 37, 162–181.
45. O'Connor, D.B., Abele, A.E., Baguley, T., Daly, M., Doherty, N., **Grange, J.A.**, Leman, P., Pressmane, S.D., Rossit, S., & Simms, V. (2022). Improving psychological science: Further thoughts, reflections, and ways forward (Editorial). *Cogent Psychology*, 9, 2103248.
44. **ManyPrimates** (2022). The evolution of primate short-term memory. *Animal Behavior & Cognition*, 9, 428–516.
43. **Grange, J.A.**, & Moore, S.B. (2022). *mixtur*: An R package for designing, analysing, and modelling continuous report visual short-term memory studies. *Behavior Research Methods*, 54, 2071–2100.
42. **Grange, J.A.** & Rydon-Grange, M. (2022). Computational modelling of attentional selectivity in depression reveals perceptual deficits. *Psychological Medicine*, 52, 904–913.
41. **Grange, J.A.**, (2022). Computational modelling of the speed–accuracy tradeoff: No evidence for an association with depression symptomatology. *Journal of Psychiatric Research*, 147, 111–125.
40. Stewart, A.J., Farran, E.K., **Grange, J.A.**, MacLeod, M., Munafo, M., Newton, P., & Shanks, D.R. (2021). Improving research quality: The view from the UK Reproducibility Network institutional leads for research improvement. *BMC Research Notes*, 14, Article 458.
39. Sherman, S. M. & **Grange, J.A.** (2020). Exploring the impact of mindfulness on false-memory susceptibility. *Psychological Science*, 31, 968–977.
38. Kowalczyk, A.W. & **Grange, J.A.** (2020). The effect of episodic retrieval on inhibition in task switching: A diffusion model analysis. *Psychological Research*, 84, 1965–1999.

37. Davenport, B., **Grange, J.A.**, Jackson, M., & Rydon-Grange, M. (2020). Beliefs about voices in voice-hearers: The role of schema functioning. *Behavioral and Cognitive Psychotherapy*, 48, 584–597.
36. Coetzer, R., Rydon-Grange, M., Roberts, C., & **Grange, J.A.** (2019). Cognitive function, self-awareness, and neuroimaging findings in OCD-type presentations after Traumatic Brain Injury. *Panamerican Journal of Neuropsychology*, 13, 15–28.
35. **Grange, J.A.**, Kedra, P., & Walker, A. (2019). The effect of practice on inhibition in task switching: Controlling for episodic retrieval. *Acta Psychologica*, 192, 59–72.
34. Schuch, S. & **Grange, J.A.** (2019). Increased cognitive control after task conflict? Investigating the n–3 effect in task switching. *Psychological Research*, 83, 1703–1721.
33. **Grange, J.A.** & Becker, B. (2019). The effect of aging on response congruency in task switching: A meta-analysis. *Journal of Gerontology Series B: Psychological Sciences and Social Science*, 74, 389–396.
32. **Grange, J.A.** (2018). Does task activation in task switching influence inhibition or episodic interference? *Experimental Psychology*, 65, 393–404. [A registered report.]
31. Martini, A., Dal Lago, D., Edelstyn, N.M.J., **Grange, J.A.**, & Tamburin, S. (2018). Impulse control disorder in Parkinson’s disease: A meta-analysis of cognitive, affective, and motivational correlates. *Frontiers in Neurology*, 9: 654.
30. Lakens, D., Adolphi, F., Albers, C.,... **Grange, J.A.**,... & Zwaan, R. [88 authors] (2018). Justify your alpha. *Nature Human Behavior*, 2, 168–171.
29. Martini, A., Ellis, S.J., **Grange, J.A.**, Tamburin, S., Dal Lago, D., Vianello, G., & Edelstyn, N.M.J. (2018). Risky decision-making and affective features of impulse control disorder in Parkinson’s disease. *Journal of Neural Transmission*, 125, 131–143.
28. **Grange, J.A.**, Kowalczyk, A., & O’Loughlin, R. (2017). The effect of episodic retrieval on inhibition in task switching. *Journal of Experimental Psychology: Human Perception & Performance*, 43, 1568–1583.
27. Kowalczyk, A. & **Grange, J.A.** (2017). Inhibition in task switching: The reliability of the n–2 repetition cost. *Quarterly Journal of Experimental Psychology*, 70, 2419–2433.
26. Stephens, R., Holloway, K., **Grange, J.A.**, Owen, L., Jones, K., & Kruisselbrink, D. (2017). Does familial risk for alcohol use disorder predict alcohol hangover? *Psychopharmacology*, 234, 1795–1802.
25. **Grange, J.A.**, Stephens, R., Jones, K., & Owen, L. (2016). The effect of alcohol hangover on choice response time. *Journal of Psychopharmacology*, 30, 654–661.
24. **Grange, J.A.** (2016). flankr: An R package implementing computational models of attentional selectivity. *Behavior Research Methods*, 48, 528–541.
23. Anderson, C. J., Bahnik, Š., Barnett-Cowan, M., Bosco, F. A., Chandler, J., Chartier, C. R., Cheung, F., Christopherson, C. D., Cordes, A., Cremata, E. J., Della Penna, N., Estel, V., Fedor, A., Fitneva, S. A., Frank, M. C., **Grange, J. A.**, Hartshorne, J. K., Hasselman, F., Henninger, F., Jonas, K. J., Lai, C. K., Levitan, C. A., Miller, J. K., Moore, K. S., Meixner, J. M., Munafò, M. R., Neijenhuijs, K. I., Nilsson, G., Nosek, B. A., Plessow, F., Prenoveau, J. M., Ricker, A. A., Schmidt,

- K., Spies, J. R., Stieger, S., Strohminger, N., Sullivan, G. B., van Aert, R. C. M., van Assen, M. A. L. M., van der Hulst, M., Vanpaemel, W., Vianello, M., Voracek, M., & Zuni, K. (2016). Response to a comment on “Estimating the reproducibility of psychological science”. *Science*, *351*, 1037.
22. **Grange, J.A.** (2016). Temporal distinctiveness in task switching: Assessing the mixture-distribution assumption. *Frontiers in Cognition*, *7*:251.
21. Edelstyn, N.M.J., **Grange, J.A.**, Ellis, S.J., & Mayes, A. R. (2016). A deficit in familiarity-driven recognition in a right-sided mediodorsal thalamic lesion patient. *Neuropsychology*, *30*, 213–224.
20. **Open Science Collaboration.** (2015). Estimating the reproducibility of psychological science. *Science*, *349*, 943.
19. Schuch, S.,* & **Grange, J.A.*** (2015). The effect of n-3 on n-2 repetition costs in task switching. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, *41*, 760–767. * = **Both authors contributed equally.**
18. **Grange, J.A.**, & Juvina, I. (2015). The effect of practice on n-2 repetition costs in set switching. *Acta Psychologica*, *154*, 14–25.
17. **Grange, J.A.**, & Cross, E. (2015). Can time-based decay explain temporal distinctiveness effects in task switching? *Quarterly Journal of Experimental Psychology*, *68*, 19–45.
16. **Grange, J.A.**, & Houghton, G. (2014). *Task switching & cognitive control: An introduction*. In J. A. Grange & G. Houghton (Eds.), *Task Switching and Cognitive Control*. New York, NY: Oxford University Press.
15. **Grange, J.A.**, & Houghton, G. (2014). *Models of cognitive control in task switching*. In J. A. Grange & G. Houghton (Eds.), *Task Switching and Cognitive Control*. New York, NY: Oxford University Press.
14. Stephens, R., **Grange, J.A.**, Jones, K., & Owen, L. (2014). A critical analysis of alcohol hangover research methodology for surveys or studies of effects on cognition. *Psychopharmacology*, *231*, 333–2236.
13. Brandt, M., Ijzerman, A., Dijksterhuis, A., Farach, F. J., Giner-Sorolla, R., **Grange, J.A.**, Perugini, M., & Spies, J. R., & van ’t Veer, A. (2014). The replication recipe: What makes for a convincing replication? *Journal of Experimental Social Psychology*, *50*, 217–224.
12. **Open Science Collaboration.** (2013). The Reproducibility Project: A model of large-scale collaboration for empirical research on reproducibility. In V. Stodden, F. Leisch, & R. Peng (Eds.), *Implementing Reproducible Computational Research (A Volume in the R Series)*. New York, NY: Taylor & Francis.
11. **Grange, J.A.**, Juvina, I., & Houghton, G. (2013). On costs and benefits of n-2 repetitions in task switching: Toward a behavioural marker of cognitive inhibition. *Psychological Research*, *77*, 211–222.
10. **Open Science Collaboration.** (2012). An open, large-scale, collaborative effort to estimate the reproducibility of psychological science. *Perspectives on Psychological Science*, *7*, 657–660.
9. **Grange, J.A.**, Lody, A., & Bratt, S. (2012). Cost-benefit and distributional analyses of accessory stimuli. *Psychological Research*, *76*, 626–633.

8. Juvina, I., **Grange, J.A.**, & Lebiere, C. (2011). From repetition suppression in Stroop to backward inhibition in task switching: An example of model reusability. In A. V. Samsonovich & K. R. Jóhannsdóttir (Eds.), *Frontiers in Artificial Intelligence, Volume 233: Biologically Inspired Cognitive Architectures*, IOS Press (pp.168–173).
 7. Houghton, G. & **Grange, J.A.** (2011). CDF-XL: Computing cumulative distribution functions of reaction time data in Excel. *Behavior Research Methods*, 43, 1023–1032.
 6. **Grange, J.A.** & Houghton, G. (2011). Task preparation & task inhibition: A comment on Koch, Gade, Schuch, & Philipp (2010). *Psychonomic Bulletin & Review*, 18, 211–216.
 5. **Grange, J.A.** (2011). Control of working memory contents during task-switching. In E. Levin (Ed.), *Working memory: Capacity, development, & improvement techniques*. New York: Nova Science Publishers (pp.477–512).
 4. **Grange, J.A.** & Houghton, G. (2010). Cue-switch costs in task switching: Cue priming or control processes? *Psychological Research*, 74, 481–490.
 3. **Grange, J.A.** & Houghton, G. (2010). Heightened conflict in cue–target translation increases backward inhibition in set switching. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 36, 1003–1009.
 2. **Grange, J.A.** & Houghton, G. (2009). Temporal cue–target overlap is not essential for backward inhibition in task switching. *Quarterly Journal of Experimental Psychology*, 62, 2069–2080.
 1. Houghton, G., Pritchard, R., & **Grange, J.A.** (2009). The role of cue–target translation in backward inhibition of attentional set. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 35, 466–476.
- OTHER PUBLICATIONS
10. Leyser, O., Kingsley, D., & **Grange, J.A.** (2017). The science ‘reproducibility crisis’—and what can be done about it. *The Conversation*. (<http://bit.ly/2xKFPwE>)
 9. **Grange, J.A.** (2016). Time for insulting reviews to stop. *The Psychologist*, 29 (3), 158.
 8. **Grange, J.A.** (2013). What’s all this business about Bayes? *PsyPAG Quarterly*, 89, 12–13.
 7. **Grange, J.A.** (2011). A review of the book: “Public speaking for psychologists: A lighthearted guide to research presentations, job talks, and other opportunities to embarrass yourself”. *The Psychologist*, 24 (2), 21.
 6. **Grange, J.A.** (2011). A review of the book: “How to write a lot: A practical guide to productive academic writing”. *PsyPAG Quarterly*, 78, 38–39.
 5. **Grange, J.A.** (2011, July 14). Theory of ghosts. *Daily Telegraph (Editor’s Letters)*. (<http://tgr.ph/r9NBHL>)
 4. **Grange, J.A.** (2010, August 26). Morality of the Trident programme. *Daily Telegraph (Editor’s Letters)*, p.26. (<http://bit.ly/dueGAq>)
 3. **Grange, J.A.** (2010, April 8). Fatuous media & the Large Hadron Collider. *Chessbase.com, Reader’s Letter*. (<http://bit.ly/9JuYwg>)
 2. **Grange, J.A.** (2009, August 27). Evolutionary future: Speak to the ecologists about evolution. *The Times (Editor’s Letters)*, p.27. (<http://bit.ly/9UYnwB>)

SOFTWARE
PACKAGES

1. **Grange, J.A.** (2008, September 4). Hands-off your hands-free. *Publishaletter.com*. (Letter won Editor's Choice Letter for September 2008)(<http://bit.ly/92YxQN>)
2. Allon, A., Luria, R., **Grange, J.A.**, & Meiran, N. (2015). **prepdatt**: Preparing experimental data for statistical analysis. *R Package version 1.0.2*. <https://cran.r-project.org/web/packages/prepdatt/index.html>
3. **Grange, J.A.** (2015). **flankr**: An R package implementing computational models of attentional selectivity. *R Package Version 0.0.0.9000*. <http://github.com/JimGrange/flankr>
4. **Grange, J.A.** (2015). **trimr**: An implementation of common response time trimming methods in R. *R Package Version 1.0.0*. <https://cran.rstudio.com/web/packages/trimr/index.html>
5. **Grange, J.A.**, Moore, S.B., & Berry, E.D.J. (2021). **mixture**: An R package for designing, analysing, and modelling continuous report visual short-term memory studies. *R Package Version 1.0.0*. <https://github.com/JimGrange/mixture>
1. Houghton, G. & **Grange, J.A.** (2011). **CDF-XL**: Cumulative distribution functions of response time data in Excel.

ORGANISED
WORKSHOPS

2. Garnett, N. & **Grange, J.A.** (2020, April). *Practically Bayesian*. Invited workshop at the School of Psychology, Leeds University, United Kingdom. [Postponed due to the Covid-19 outbreak in the UK.]
1. Garnett, N. & **Grange, J.A.** (2019, September). *Practically Bayesian*. Invited workshop at the British Psychological Society's combined Developmental and Cognitive Section Conference, Stoke-on-Trent, United Kingdom.

PRESENTATIONS

60. Poole, D., Milne, E., & **Grange, J.A.**, (September, 2025). *Making use of drift diffusion models when measuring selective attention in autism*. Paper to be presented at the European Society of Cognitive Psychology meeting, Sheffield, UK.
59. Benini, E., Moretti, L., Möller, M., Koch, I., Philipp, A.M., Qui, R., Moretti, L., **Grange, J.A.**, & Mayr, S. (November, 2024). *Episodic retrieval in task switching: Repeating the response induces retrieval of the task*. Paper to be presented at the 65th Annual Meeting of the Psychonomic Society, New York, NY, USA.
58. Poole, D., **Grange, J.A.**, & Milne, E. (July 2024). *Putting the spotlight back onto the flanker task in autism: Autistic adults show increased interference from foils compared with non-autistic adults*. Paper to be presented at the July Experimental Psychology Society Conference, University of York, UK.
57. Benini, E., Möller, M., Koch, I., Philipp, A.M., Qui, R., Moretti, L., **Grange, J.A.**, & Mayr, S. (March, 2024). *Episodic retrieval in task switching: Repeating the response induces task-repetition errors*. Paper presented at the *Multitasking and Cognitive Control* symposium at Tagung Experimentell Arbeitender Psychologen ("Conference of Experimental Psychologists"), Regensburg, Germany.
56. **Grange, J.A.** (January, 2024). *Open research at Keele*. Invited presentation at joint meeting of the UK Reproducibility Network and Scottish Funding Council, University of Glasgow, UK.
55. **Grange, J.A.** (November, 2023). *Open research and Annual Research Integrity Statements*. Presentation invited by the UK Committee on Research Integrity to the panel "State Of The Nation?"

Insights From Analysing Annual Research Integrity Reports By UK Universities” to the Association of Research Managers and Administrators group, UK.

54. Benini, E., Möller, M., Koch, I., Philipp, A.M., Qui, R., Moretti, L., **Grange, J.A.**, & Mayr, S. (June, 2023). *Evidence of episodic retrieval in task switching: Repeating the response retrieves the task and vice versa*. Poster presented at the Binding and Retrieval in Action Control (BRAC) conference, Trier University, Germany.

53. **Grange, J.A.** (April, 2023). *Control of stimulus-set and response-set in task-switching: Further tests of a computational model*. Paper presented at the March Experimental Psychology Society Conference, University of Plymouth, UK.

52. **Grange, J.A.** (May, 2022). *Easing into open research*. Invited paper and panel member at the Open University, UK.

51. **Grange, J.A.** (April, 2022). *Engaging undergraduate students with research training through replications*. Invited paper and panel member at the RIOT Science Colloquium, Durham University, UK.

50. **Grange, J.A.** (March, 2022). *Control of stimulus-set and response-set in task switching*. Paper presented at the March Experimental Psychology Society Conference, Keele University, UK.

49. Moore, S.B. & **Grange, J.A.** (March, 2022). *Dimension switching impairs visual short-term memory resource allocation*. Paper presented at the March Experimental Psychology Society Conference, Keele University, UK.

48. 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*. Poster presented at the July Experimental Psychology Society Conference [presented online due to Covid-19].

47. **Grange, J.A.**, Moore, S.B., & Berry, E.D.J. (April, 2021). *mixtur: An R package for designing, analysing, and modelling continuous report visual short-term memory studies*. Poster presented at the Experimental Psychology Society Conference [presented online due to Covid-19].

46. Moore, S.B. & **Grange, J.A.** (April, 2021). *The impact of dimension switching on visual short-term memory*. Poster presented at the Experimental Psychology Society Conference [presented online due to Covid-19].

45. **Grange, J.A.**, *Depression and cognition: A computational modelling approach* (December, 2020). Invited paper presented at the Department of Psychology, University of Huddersfield [presented online due to Covid-19].

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

43. **Grange, J.A.**, *Attentional selectivity in depression: A computational modelling approach* (March 2020). Invited paper presented at the School of Psychology, University of Central Lancashire, UK. [Postponed due to the Covid-19 outbreak in the UK.]

42. **Grange, J.A.**, & Kowalczyk, A. (2019, September). *The effect of episodic retrieval on inhibition in task switching: A diffusion model analysis*. Invited paper presented at the symposium “Inhibition in Task Switching” for the British Psychological Society’s combined Cognitive & Developmental

Section Conference, Stoke-on-Trent, United Kingdom.

41. **Grange, J.A.** (2019, March). *What role for inhibition in task switching?* Invited paper presented at the Department of Psychology, University of Sheffield, UK.
40. **Grange, J.A.**, & Kowalczyk, A. (2018, April). *Is response selection in task switching impaired by inhibition or episodic retrieval? A diffusion model analysis.* Paper presented at the Experimental Psychology Society conference, Leicester University, UK.
39. **Grange, J.A.** (2017, March). *What role for inhibition in task switching?* Invited paper presented at symposium entitled "Inhibition as a cognitive construct: Helpful and valid?" at the 59th Tagung Experimentell Arbeitender Psychologen ("Conference of Experimental Psychologists"), Dresden, Germany.
38. **Grange, J.A.** (2016, October). *The reproducibility crisis in psychological science: One year later.* Psychologist in the Pub (public science event), Glebe Pub, Stoke-on-Trent, UK.
37. Martini, A., Dal Lago, D., **Grange, J.A.**, & Edelstyn, N.M.J. (2016, October). *Cognition in patients with Parkinson's Disease with impulse control disorder: A meta-analysis.* Poster presented at the 11th International Congress on Non-Motor Dysfunctions in Parkinson's Disease and Related Disorders, NMDPD, Ljubljana, Slovenia.
36. **Grange, J.A.** (2016, October). *Inhibitory control during task switching.* Invited speaker at the School of Psychology, Aberdeen University, UK.
35. **Grange, J.A.**, Kowalczyk, A., & O'Loughlin, R. (2016, August). *The effect of episodic retrieval on inhibition in task switching.* Paper presented at the British Psychological Society's Cognitive Section Conference, Barcelona, Spain.
34. Kowalczyk, A., & **Grange, J.A.** (2016, April). *Task switching: The reliability of backward inhibition.* Paper presented at the British Psychological Society's Cognitive Section Conference, Barcelona, Spain.
33. **Grange, J.A.** (2016, May). *Inhibitory control during task switching.* Invited speaker at the School of Psychology, University of Warwick, UK.
32. **Grange, J.A.**, Kowalczyk, A., & O'Loughlin, R. (2016, April). *The effect of episodic retrieval on inhibition in task switching.* Paper presented at the EPS conference, Durham University, UK.
31. Kowalczyk, A., & **Grange, J.A.** (2016, April). *Task switching: The reliability of backward inhibition.* Poster presented at the EPS conference, Durham University, UK.
30. Kreutzfeldt, M., **Grange, J.A.**, Stephan, D.N., Willmes, K., & Koch, I. (2016, March). *Cognitive control and modality dominance relations in spatial and temporal tasks — empirical data and a formal model.* Paper to be presented at the TeaP conference, Heidelberg, Germany.
29. **Grange, J.A.** (2016, January). *flankr: Implementing computational models of attentional selectivity.* Paper presented the EPS conference, University College London, UK.
28. **Grange, J.A.** (2015, July). *Testing task switching effects using Oberauer et al.'s (2013) computational model of procedural WM.* Invited speaker at the Institute of Psychology, RWTH Aachen, Germany.
27. **Grange, J.A.** (2014, July). *The effect of accessory stimuli on choice response time.* Paper

presented at the EPS conference, Newcastle University, UK.

26. **Grange, J.A.**, & Juvina, I. (2014, April). *The effect of practice on $n-2$ repetition costs in set switching*. Paper presented at the EPS conference, Kent University, UK.

25. Edelstyn, N. M. J. , **Grange, J.A.**, Millington, J.G., Ellis, S.J. & Mayes, A.R. (2014, March). *Impaired material-specific familiarity but spared recollection after a right-sided medial mediodorsal thalamic lesion*. British Neuropsychology Society 25th Anniversary Meeting, St. Hugh's College, Oxford University.

24. **Grange, J.A.** (2013, November). *Two challenges for models of task switching*. Invited speaker at the Institute of Psychology, RWTH Aachen, Germany.

23. Owen, L., Stephens, R., **Grange, J. A.**, Jones, K. (2013, September). *The health consequences of alcohol hangover—preliminary findings*. Poster presented at the European Society for Biomedical Research on Alcoholism Congress, Warsaw, Poland.

22. **Grange, J.A.** (2013, August). *Don't be mean with response times: Distributional and model-based analyses*. Paper presented at the 5th Annual Meeting of the Alcohol Hangover Research Group, hosted at Keele University, UK.

21. Owen, L., Stephens, R., **Grange, J.A.**, Jones, K., & Parry, E. (2013, August). *Cognitive consequences of alcohol hangover—preliminary findings*. Paper presented at the 5th Annual Meeting of the Alcohol Hangover Research Group, hosted at Keele University, UK.

20. Schuch, S. & **Grange, J.A.** (2013, August). *$N-2$ repetition cost in task switching: Investigating four-task sequences*. Paper presented at the 18th meeting of the European Society for Cognitive Psychology, Budapest, Hungary.

19. **Grange, J.A.** (2013, July). *Challenging a temporal distinctiveness account of task switching: Data and a model*. Paper presented at the EPS conference, Bangor University, UK.

18. Brandt, M.J., Ijzerman, I., Giner-Sorolla, R., Farach, F., **Grange, J.A.**, Geller, J., Spies, J., Van t' Veer, A., & Perugini, M. (2013, July). *Advancing replicability and theory through replication recipes and replication packages*. Paper presented at the small group meeting Efficient Science: Methodological Controversies in J/DM Research, Bonn, Germany.

17. Owen, L., Stephens, R., **Grange, J. A.**, Jones, K. (2013, June). *The health consequences of alcohol hangover—preliminary findings*. Poster presented at the Research Society on Alcoholism Annual Scientific Meeting, Orlando, USA.

16. **Grange, J.A.** (2013, April). *Testing a SIMPLE simulation of temporal distinctiveness effects in task switching*. Paper presented at the EPS conference, Lancaster University, Lancaster, UK.

15. Stephens, R., **Grange, J.A.**, Jones, K., Owen, L. (2012, October). *Utilizing predictable social drinking to conduct naturalistic alcohol hangover research*. Poster presented at the British Psychological Society Annual Conference, Harrogate, UK.

14. Stephens, R., **Grange, J.A.**, Jones, K., & Owen, L. (2012, October). *Health consequences of the alcohol hangover*. Paper presented at the 4th Annual Meeting of the Alcohol Hangover Research Group, Arcadia University, Wolfville, Nova Scotia, Canada.

13. **Grange, J.A.** (2012, January). *The effect of task-relevant and irrelevant verbalisations on inhibition in task switching*. Paper presented at the EPS conference, University College London,

UK.

12. Juvina, I., & **Grange, J.A.** (2011, November). *From repetition-suppression in Stroop to backward inhibition in task switching: An example of model reusability*. Paper presented at the annual conference of Biologically Inspired Cognitive Architecture (BICA), Arlington, VA, USA.
11. **Grange, J.A.**, & Juvina, I. (2011, September). *Inhibition and facilitation in task switching: A computational model*. Paper presented at the British Psychological Society 28th Annual Cognitive Section Conference, Keele University, UK.
10. **Grange, J.A.** (2011, July). *On costs and benefits of inhibition in task switching*. Invited speaker at the Cognitive Colloquium, School of Psychology, Bangor University, UK.
9. **Grange, J.A.**, & Houghton, G. (2011, April). *Inhibition in task switching: task cues & individual differences*. Paper presented at the EPS conference, Oxford University, UK.
8. **Grange, J.A.**, & Houghton, G. (2010, April). *Heightened conflict during cue encoding increases backward inhibition in set switching*. Poster presented at the 1st joint EPS - SEPEX conference, Granada, Spain.
7. Houghton, G. & **Grange, J.A.**, (2010, April). *Cue-target relationships in set switching*. Paper presented at the 1st joint EPS - SEPEX conference, Granada, Spain.
6. **Grange, J.A.** (2010, March) *Inhibition & cognitive control*. Invited presentation at the School of Psychology, Keele University, UK.
5. **Grange, J.A.**, & Houghton, G. (2009, September). *Cue-target translation & the cost of switching cues*. Paper presented at the British Psychological Society 26th Annual Cognitive Section Conference, University of Hertfordshire, UK.
4. **Grange, J.A.**, & Houghton, G. (2009, July). *The role of cue-target relationships in task switching*. Poster presented at the 2nd Wales Institute of Cognitive Neuroscience (WICN) conference, Deganwy, North Wales.
3. **Grange, J.A.** (2009, March) *Task cues in task switching*. Departmental Colloquium, School of Psychology, Bangor University.
2. **Grange, J.A.** (2008, July) *Does task-switching require an endogenous act of control?* Paper presented at the PsyPAG annual conference, University of Manchester.
1. **Grange, J.A.** (2007, March) *Inhibitory mechanisms in task switching*. Proceedings of the British Psychological Society Welsh Branch 36th Annual Student Conference, Swansea University.

AWARDS & HONOURS

- Awarded research sabbatical for Autumn semester of 2021/22 academic year.
- Awarded research sabbatical for Autumn semester of 2017/18 academic year (deferred due to taking on Head of School role).
- Keele University Excellence Award (Winner, 2015). This university-wide award is presented in recognition of excellence in teaching and student support. I have been nominated by students for this award every year I have taught at Keele, winning in 2015.
- Keele Student-Led Teaching Awards (Winner, 2015, 2017). This teaching award is driven by student-nominations via the Student Union in "...recognition of teaching excellence". I have been shortlisted for this award in 2014, 2015, and 2017.
- Selected for Keele University's Research Excellence Framework assessment submission (REF2014).
- Awarded research sabbatical for Autumn semester of 2013/14 academic year.

PhD Supervision

- Kym Ellis (2023–present): *Examining the psychological variables contributing to impulse control behaviour risks in Parkinson's*. Support supervisor (primary supervisor—Professor Nicky Edelstyn).
- Katie Clarke (2023–present): *Protesting the right thing: An exploration of Social Identity, climate change activism, and moral decision making*. Support supervisor (primary supervisor—Dr Kathryn Francis).
- Stuart Moore (2019–2022): *Multidimensional resource allocation: The role of attentional control in the allocation of visual short-term memory resources*. Primary supervisor. **Pass, with no corrections.**
- Krystian Ciesielski (2019–present): *Visual attention and scene perception*. Support supervisor (primary supervisor: Dr Sara Sportorno).
- Agnieszka Kowalczyk (2015–2018): *Cognitive inhibition in task switching: Exploring the n-2 repetition cost*. Primary supervisor. **Pass, with no corrections.**
- Krystian Ciesielski (2019–Present): *Visual attention and scene perception*. Support supervisor (primary supervisor—Dr Sara Sportorno).
- Kate Clarke (2023–Present): *TBD*. Support supervisor (primary supervisors: Dr Sara Vestergren & Dr Kathryn Francis).
- Alice Martini (2016–2022): *Impulsive-compulsive behaviours in Parkinson's disease: A behavioural, neuroimaging, and neurophysiological investigation*. Secondary supervisor (primary supervisor—Professor Nicky Edelstyn).
- Nick Garnett (2015–2020). Support supervisor (primary supervisor—Dr Yvonne Skipper)

MSc Research Supervision

- Eleanor Fraser (2022/23)—MSc Dissertation, Keele University
- Alexandra Grimmett (2022/23)—MSc Dissertation, Keele University
- Maria Hussain (2022/23)—MSc Dissertation, Keele University
- Dominic Buttery (2021/22)—MSc Dissertation, Keele University
- Natalie Keel (2020/21)—MSc Dissertation, Keele University
- Paula Kedra (2018/19)—MSc Research Apprentice, Keele University
- Saule Sauciunaite (2018/19)—MSc Research Apprentice, Keele University
- Alison Walker (2017/18)—MSc Dissertation, Keele University
- Jordan Cooper (2016/17)—MSc Dissertation, Keele University
- Sarah Doyle (2016/17)—MSc Dissertation, Keele University
- Elizabeth Hunter (2016/18)—MSc Dissertation (part time), Keele University
- Dominic Bromley (2016/7)—MSc Research Apprentice, Keele University
- Chloe Waterman (2016/7)—MSc Research Apprentice, Keele University
- Charlotte Cooper (2012/13)—MSc Dissertation (co-supervisor), Keele University
- Natalie Deakin (2012/3)—MSc Independent Research Topic, Keele University
- Joshua Bould (2011/2)—MSc Dissertation, Keele University
- Justine Carrine (2011/12)—MSc Research Apprentice, Keele University
- Emma Spratley (2010/11)—MSc Research Apprentice, Keele University
- Bethan Mead (2008)—co-supervision of MSc Dissertation, Bangor University

Editorial Activities

- Associate Editor for Quarterly Journal of Experimental Psychology (2023–Present)
- Section Editor (Cognitive & Experimental Psychology) for *Cogent Psychology* (2021–Present)
- Associate Editor for *Collabra* (2015–2023)
- Associate Editor for *Frontiers in Cognition* (2015–2022)
- Associate Editor for Nature’s *Scientific Reports* (2015–2021)
- Editorial Board for *Journal of Cognitive Psychology* (2017–Present)
- Editorial Board for *Frontiers in Cognitive Science* (2015–2022)

Committee Membership:

- Experimental Psychology Society (2018–2021)
- British Psychological Society: Maths, Statistics, & Computing Section (lead of the Quantitative Group) — (2014–2017)

Grant Reviewing:

- Invited panel member for the Deutsche Forschungsgemeinschaft (German Research Foundation) Priority Programme
- Deutsche Forschungsgemeinschaft (German Research Foundation) Project Grants
- Swiss National Science Foundation
- Economic and Social Research Council (ESRC)
- Medical Research Council (MRC)
- Experimental Psychology Society
- Nuffield Foundation

Journal & Book Reviewing:

- Attention, Perception, & Psychophysics
- Acta Psychologica
- Behavior Research Methods
- Cogent: Psychology
- Cognition
- Cognitive Psychology
- Cognitive Science
- Consciousness & Cognition
- Current Drug Abuse Reviews
- Experimental Brain Research
- Frontiers in Human Neuroscience
- Journal of Applied Research in Memory and Cognition
- Journal of Clinical Medicine
- Journal of Cognitive Psychology
- Journal of Experimental Psychology: General
- Journal of Experimental Psychology: Human Perception & Performance
- Journal of Experimental Psychology: Learning, Memory, & Cognition
- Journal of Psychology

- Memory & Cognition
- McGraw-Hill
- Neuropsychologia
- PCI Registered Reports
- Pearson
- PeerJ
- PLoS One
- Proceedings of the National Academy of Sciences (PNAS)
- Psychological Research
- Psychology in Russia: State of the Art
- Psychology of Music
- Psychonomic Bulletin & Review
- Psychopharmacology
- Psychophysiology
- Routledge
- Taylor & Francis
- Royal Society Open Science
- Quarterly Journal of Experimental Psychology
- Scientific Reports

Conference Organising: Sole organiser of Experimental Psychology Society’s Spring Conference, Keele University (April, 2022)

Conference Reviewing: Cognitive Science Society’s Marr prize (2017).

Professional Membership:

- Experimental Psychology Society (2012–Present)
- Psychonomic Society (2020–Present)
- Fellow of the Higher Education Academy (2013–Present)
- Chartered Member of the British Psychological Society (2015–2017)

External Postgraduate Examining:

- Master of Research (MRes.) Psychology programme, Manchester University, UK (2016–Present)
- Viva panel member for Master of Research (MRes.) Cognitive Psychology thesis, University of Huddersfield, UK (2016)

External PhD Examining:

- PhD examiner for Jordan Deakin, University of Birmingham (2024)
- PhD examiner for Bingxin Li, Glasgow University (2019)
- PhD examiner for Laura Prosser, Aberdeen University (2018)
- PhD examiner for Xiangqian Li, Glasgow University (2017)
- PhD examiner for Nicholas Sexton, University of London, Birkbeck (2017)
- PhD examiner for Dane Poboka, University of Newcastle, Australia (2016).

Internal PhD / MPhil Examining:

- PhD internal examiner for Kimberley Dundas (School of Psychology, 2024)
- PhD progression committee chair for Rebecca Jones (School of Psychology, 2023)
- PhD progression committee chair for Sebastian Tustanowski (School of Psychology, 2023)
- MPhil viva chair for Taylor Wells (School of Life Sciences, 2020)
- PhD viva chair for Ali Abdullah K Althobaiti (School of Computing & Mathematics, 2020)
- PhD viva chair for Emma Harrison (School of Psychology, 2019)
- PhD progression committee chair for Kim Dundas (School of Psychology, 2019)
- PhD progression committee member for Alice Martini (School of Psychology, 2016)
- PhD progression committee member for Hayley Gilman (School of Psychology, 2014)
- PhD progression committee member for Tom Shephard (School of Psychology, 2012)

University Academic Lead for Research Integrity & Improvement (2019–Present). (Needs updating)

Head of School (2017—2020). As HoS I am responsible for all aspects of research, education, and managerial leadership of the School, ensuring compliance with University and statutory regulations. I directly line-manage approximately 50 staff members (38 academics), and manage a budget of over £5million. I sit on Faculty Executive Group & Leadership committees, the University Leadership Group, and the University Senate. I also sit on the Faculty’s Research Committee, and Academic Promotions Panel. Principal areas of responsibility are:

- **Academic Leadership:** (i) To provide academic leadership in the management of all research and educational activities within the school; (ii) To generate new income for the School and Faculty; (iii) To lead on the development of a strategic plan at School level (and contribute to the strategic plan at Faculty level), reviewing monitoring and reporting on such strategies; (iv) To ensure the School fulfills the strategic aims of the University; (v) To participate fully in the University’s governance through membership of University Senate.
- **Management of Resources:** (i) To have responsibility for the direct line management of members of the School; (ii) To effectively manage the School’s budget via strategic annual planning; (iii) To manage staffing resources for the School, including recruitment, performance management, appraisal, and development; (iv) To facilitate the promotion of equality of opportunity and diversity throughout the School.
- **Governance:** (i) To manage the processes of quality assurance in the School (e.g., the IQA and British Psychological Society accreditation); (ii) To act as School risk manager for governance purposes; (iii) To ensure the implementation of effective health & safety procedures within the School.

Research Lead of the Cognitive & Biological Research Group in the School of Psychology (2014—2017). As part of the School’s REF-2021 preparations, we established three research groups within the school that are a collection of academics and graduate students. The role of the research lead is to coordinate the functioning of the groups. Innovations I introduced were grant-writing workshops, sharing of grant-submission & reviewer feedback, internal peer-review system for grants and empirical papers, internal peer-review on early-stages of project planning to increase academic and non-academic impact, and mentoring of early-career staff. I also assisted convening an internal quality audit (i.e., REF-2021 preparation) of paper submissions across the school.

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| UNIVERSITY SERVICE | <p>School Athena Swan committee member (2017–Present); Programme director for MSc Cognitive Psychology (2014–2017); Research Excellence Framework (REF) reading committee (2014, 2017–Present); PhD school studentship competition selection committee (2014–present); University Ethical Review Panel member (2012–2017); School of Psychology Ethics Committee member (2014–2017); Year 2 Tutor (2014–2016); Curriculum Review Committee (2016); Level one research participation time (RPT) co-ordinator (2012–2017); Level two research experience scheme co-ordinator (2012–2016); PhD progression committee member for Tom Shephard (Keele University, 2012), Hayley Gilman (Keele University, 2014), Alice Martini (Keele University, 2016), and Kimberley Dundas (Keele University, 2019); peer-reviewer for large grant applications for the Research Institute of Social Sciences and Faculty of Natural Sciences at Keele University (2010–Present).</p> |
| PROFESSIONAL DEVELOPMENT | <p>Introduction to Head of Department, Leadership Foundation UK (2017). This two-day course is designed specifically for new heads of school covering the contemporary contexts and challenges of being a head of department. Topics included were (i) Exploring the nature of change and discussing models for implementing change projects; (ii) Managing difficult conversations; (iii) Reviewing conflict using the Thomas Kilman conflict model tool; (iv) Action learning sets; and (v) Diagnostics on management and leadership style.</p> <p>Leadership Training at Keele (2017/18). Key service leaders in the University schedule a series of events, aimed at leaders, on core features and practices in leadership at Keele. The relevant events include: (i) Staff performance review training; (ii) Equality & diversity inclusive leadership; (iii) Higher education finance; (iv) Keele University governance; and (v) Human resources survival kit for managers.</p> <p>Introduction to the Role of the Viva Chair for Keele University PhD Examinations (2019). This course explains the roles and responsibilities of the independent chair of a postgraduate research viva at Keele enabling me to serve as independent chair at Keele University PhD vivas.</p> <p>Recruitment & Selection Training (2015, 2016, 2017, 2018, 2019). This course provides the skills and procedural information for managers at all levels with responsibility for recruiting and selecting employees at Keele University. Successful completion enabled me to be part of a recruitment panel for new academic staff for the department (and across the University, if required).</p> <p>Information Security Awareness Training (2017, 2018). This online course provides information about security of information within University systems, including data protection and GDPR.</p> <p>Completion of the Teaching and Learning in Higher Education programme (2012). This one-year MSc-level programme is nationally accredited, and provides new teachers in higher education with skills, knowledge, and a framework for continued critical engagement with the business of teaching in higher education. Assessment consisted of submitting a 12,000 word portfolio containing evidence of critical reflection of teaching practice, effective module development, effective development of assessment protocols, and a general commitment to excellence in teaching. A copy of my portfolio is available upon request.</p> <p>Research Supervision Training (2012). This 12-session programme equipped attendees with necessary skills to effectively supervise doctoral students. Topics included enhancing effectiveness of supervision meetings, professional development of student, managing student setbacks, and a general introduction to the PGR ethos at Keele. Successful completion of this course now allows me to be a primary supervisor of doctoral students at Keele University.</p> |
| TEACHING ROLES | Keele University |

- PSY-10016 Research Methods 2 (Lecturer)
- PSY-10017 Biological and Cognitive Psychology (Seminar Leader)
- PSY-10018 Individuals and Society (Seminar Leader)
- PSY-20005 Biological Psychology, Perception, and Cognition (Lecturer)
- PSY-20023 Cognitive Neuroscience (Module Leader and Lecturer)
- PSY-20018 Cognitive and Biological Research Methods in Psychology (Module Leader, Lecturer, and Lab Leader)
- PSY-30061 Final Year Dissertation (Project Supervisor to approx. 14 students per year since 2010)
- PSY-30084 Research Apprenticeship for BSc Major Psychology
- PSY-30088 Psychology of Task Switching (Module Leader)
- PSY-30099 Key Readings in Cognitive Psychology (Lecturer)
- PSY-30089 Psychology of Task Switching for MSc (Module Leader)
- PSY-40015 MSc Research Thesis Supervision
- PSY-40031 MSc Special Topic in Psychology (Tutor)
- PSY-40033 MSc Research Apprenticeship in Psychology (Supervisor)
- PSY-40034 MSc Theory and methodology in Psychology (Lecturer)
- PSY-40044 MSc Advanced study in cognitive psychology (Module Leader & Lecturer)

Bangor University

- Teaching Assistant - MSc module: Communicating Research in Psychology
- Teaching Assistant - Qualitative & Quantitative Data Analysis (2009-2010)
- Teaching Assistant - Research Reporting
- Assistant BSc/MSc Supervision
- Psychology Summer Research Intern Supervision
- Undergraduate / Graduate Conference Assessor

REFEREES

Available upon request.