

Autescape '23

REPLICATION IN AUTISM RESEARCH: WHY & HOW...

Michelle Dodd

Replication

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- Possible issues involve low statistical power, lack of open access to information on previous studies, publication bias & manipulation of data and/or hypotheses

Conducted by
Catherine Crompton,
Sue Fletcher-Watson and
others at the University of
Edinburgh

The Original study: Diversity in Social Intelligence

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including Cos Michael and Kabie Brooks. The
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Used diffusion chains to pass
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Conducted by an autistic research assistant at the University of Edinburgh and in Nottingham and Dallas

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Open Science Initiative –
Protocols published on
Open Science
Framework

Registered report with high impact journal

The Replication study: Diversity in Social Intelligence

increased sample size will allow for the
identification of moderating
demographic factors, and potential
communicative mechanisms between
and within diagnostic groups

exploring whether informing
participants of the diagnostic status
of participants in their chain affects
information transfer and rapport

Original	Replication
72 participants	324 participants, 108 in each of the 3 sites
8 participants per chain	6 participants per chain
9 chains/Research Days	54 chains/Research Days, 18 in each site
4 tasks per Research Day	5 tasks per Research Day, 4 main tasks & 1 either paired or group interaction

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References/Further information

Crompton, C.J., Ropar, D., Evans-Williams, C.V.M., Flynn, E.G., & Fletcher-Watson, S. 2020. Autistic peer-to-peer information transfer is highly effective. *Autism*, 24(7), 1704-1712.

<https://journals.sagepub.com/doi/pdf/10.1177/1362361320919286>

Crompton, C.J., Ropar, D., Sasson, N.J., Lages, M., & Fletcher-Watson, S. 2022. Open Science in Experimental Autism Research: A Replication Study of Information Transfer Within and Between Autistic and Non-Autistic People. [Poster presentation]. <http://journals.ed.ac.uk/eor/article/view/6940>

Motyl, M., Demos, A. P., Carsel, T. S., Hanson, B. E., Melton, Z. J., Mueller, A. B., Prims, J. P., Sun, J., Washburn, A. N., Wong, K. M., Yantis, C., & Skitka, L. J. (2017). The state of social and personality science: Rotten to the core, not so bad, getting better, or getting worse? *Journal of Personality and Social Psychology*, 113(1), 34–58. <https://doi.org/10.1037/pspa0000084>

<https://salvesen-research.ed.ac.uk/our-projects/diversity-in-social-intelligence-replication>

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THE UNIVERSITY *of* EDINBURGH

Recruiting research participants
for a paid, in person study



**Diversity in Social
Intelligence project**

Exploring how autistic and non-autistic
people learn from one another



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