

## Dr. Lucy H. Butler

Postdoctoral Research Fellow, Psychology of Misinformation Lab

Network Science Institute, Northeastern University

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### Education

- 2021 – 2024    Doctor of Philosophy (PhD)  
The University of Western Australia, School of Psychological Science  
Thesis: *Beyond the individual: Examining how characteristics of social media information environments impact susceptibility to misinformation and the effectiveness of misinformation interventions*  
Primary and Coordinating Supervisor: Prof. Ullrich K. H. Ecker  
Co-supervisors: Associate Prof. Nicolas Fay and Dr Briana Kennedy
- 2019            First Class Honours in Psychology<sup>1</sup>  
The University of Western Australia, School of Psychological Science  
GPA: 7.0/7.0  
Thesis: *The Limited Continued Influence Effect: No Influence of Retracted Event Misinformation on General Attitudes*  
Supervisor: Prof. Ullrich K. H. Ecker
- 2016 – 2018    Bachelor of Science (Double Major in Psychology)  
The University of Western Australia, School of Psychological Science  
GPA: 7.0/7.0
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### Professional Positions

- 2024 – Present    Postdoctoral Research Fellow, Psychology of Misinformation Lab, Northeastern University  
Affiliations: Network Science Institute, Department of Psychology, Department of Political Science  
Supervisor: Dr Briony Swire-Thompson
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### Peer Reviewed Publications and Book Chapters

- Butler, L. H., Prike, T., & Ecker, U. K.** (2024). Nudge-based misinformation interventions are effective in information environments with low misinformation prevalence. *Scientific Reports*, 14(1), 11495. <https://doi.org/10.1038/s41598-024-62286-7>
- Butler, L. H., Fay, N., & Ecker, U. K.** (2024). Others (dis-) endorse this so it must (not) be true: High relative endorsement increases perceived misinformation veracity but not correction effectiveness. *Applied Cognitive Psychology*, 38(1), e4146. <https://doi.org/10.1002/acp.4146>
- Prike, T., **Butler, L. H.**, & Ecker, U. K. (2024). Source-credibility information and social norms improve truth discernment and reduce engagement with misinformation online. *Scientific Reports*, 14(1), 6900. <https://doi.org/10.1038/s41598-024-57560-7>
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<sup>1</sup> In Australia, Honours is a one-year degree with intensive research and coursework components completed after a bachelor's degree. First Class is the highest level of achievement in an Honours degree.

- Butler, L. H.,** Lamont, P., Wan, D. L. Y., Prike, T., Nasim, M., Walker, B., Fay, N. & Ecker, U. K. H. (2023). The (Mis)Information Game: A Social Media Simulator. *Behavior Research Methods*. 1-22. <https://doi.org/10.3758/s13428-023-02153-x>
- Butler, L. H.** & Ecker, U. K. H. (2023). Misinformation in Open and Closed Online Platforms: Impacts and Countermeasures. In C. Soon (Ed.) *Mobile Communication and Online Falsehoods: Trends, Impact and Practice* (pp. 279-303). Springer.
- Butler, L. H.,** Fay, N. & Ecker, U. K. H. (2022). Social Endorsement Influences the Continued Belief in Corrected Misinformation. *Journal of Applied Research in Memory and Cognition*. <https://doi.org/10.1037/mac0000080>
- Swire-Thompson, B., Cook, J., **Butler, L. H.,** Sanderson, J. A., Lewandowsky, S., & Ecker, U. K. H. (2021). Correction format has a limited role when debunking misinformation. *Cognitive Research: Principles and Implications*, 6(1), 1-15. <https://doi.org/10.1186/s41235-021-00346-6>
- Ecker, U. K. H., **Butler, L. H.,** Cook, J., Hurlstone, M. J., Kurz, T., & Lewandowsky, S. (2020). Using the COVID-19 economic crisis to frame climate change as a secondary issue reduces mitigation support. *Journal of Environmental Psychology*, 70, 101464. <https://doi.org/10.1016/j.jenvp.2020.101464>
- Ecker, U. K. H., **Butler, L. H.,** & Hamby, A. (2020). You [don't] have to tell a story! A Registered Report testing the effectiveness of narrative versus expository misinformation corrections. *Cognitive Research: Principles and Implications*, 5, 64. <https://doi.org/10.1186/s41235-020-00266-x>
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### Manuscripts accepted

- Swire-Thompson, B., **Butler, L. H.** & Rapp, D. (2024) The truth sandwich format does not enhance the correction of misinformation. *Accepted at Journal of Educational Psychology*
- Butler, L. H.,** DeGuis, J., Tay, L., Ecker, U. K. H., Swire-Thompson, B. (2024) Corrections are effective for science-relevant misinformation. *Accepted as Matters arising at Nature Human Behaviour*.
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### Conference Presentations and Posters

- Butler, L. H.,** Rapp, D. & Swire-Thompson, B. (2024). Is the truth sandwich superiority baloney? No evidence for enhanced efficacy for misinformation correction. (poster) *65<sup>th</sup> Meeting of the Psychonomics Society*, New York City, USA, November 21-24, 2024.
- Prike, T., **Butler, L. H.,** Modirrousta-Galian, A., Higham, P., Bijak, J, Ecker, U. K. H. (2024). Learning to Tell Fact from Fiction: Exemplar Based Training Improves Discernment of Misinformation But Only for Similar Headlines. (poster) *65<sup>th</sup> Meeting of the Psychonomics Society*, New York City, USA, November 21-24, 2024.
- Butler, L. H.,** Lamont, P. X., Law Yim Wan, D., Prike, T., Nasim, M., Walker, B., Fay, N., & Ecker, U. K. H. (2022). The (Mis)Information Game: A social media simulator. (talk) *14<sup>th</sup> Meeting of the Society for Applied Research in Memory and Cognition, SARMAC XIV*, Nagoya, Japan, August 9-12, 2023.
- Prike, T., **Butler, L. H.,** & Ecker, U. K. H. (2023). Source-credibility information and social norms reduce misinformation sharing online. (talk) *14<sup>th</sup> Meeting of the Society for Applied Research in Memory and Cognition, SARMAC XIV*, Nagoya, Japan, August 9-12, 2023.
- Ecker, U. K. H., Lewandowsky, S., Kurz, T., Hurlstone, M. J., **Butler, L. H.,** Cook, J., & Facer, K. (2021). COVID-19 and climate change—Present discourse and future pathways. *Healthy Environments and Living Conference, HEAL 2021*, Canberra, November 17-18.

- Butler, L. H.,** Hamby, A., & Ecker, U. K. H. (2021). You don't have to tell a story! Testing the effectiveness of narrative versus non-narrative misinformation corrections. *Virtual SARMAC 2021*, July 21-23.
- Sanderson, J. A., Swire-Thompson, B., Cook, J., **Butler, L. H.,** Lewandowsky, S., & Ecker, U. K. H. (2021). Evidence for a limited role of correction format when debunking misinformation. *Virtual SARMAC 2021*, July 21-23.
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## Teaching Experience

### Guest Lecturing

- 2024 - 2025      PSYC 3466. Cognition. (Northeastern University, ~75 Students)  
Title: Why people believe misinformation and how to counter it
- 2022              PSYC2212. Psychology and Social Behaviour (University of Western Australia, ~400 Students)  
Title: The misinformation problem: Why people believe (and continue to believe) misinformation

### Tutoring/Demonstrating

- 2022, 2023      PSYC2203 – Introduction to Quantitative Methods in Psychology (University of Western Australia)  
Responsibilities: Taught 3 2-hour classes (~60 students per semester) for 8 teaching weeks on an introduction to research design and statistical analysis, and graded laboratory reports with a strong analysis focus. Course covered correlations, t-tests, ANOVAs, regression, and a basic introduction to non-parametric statistics. Students were required to be competent in analyses both by hand and using Jamovi statistical software.
- 2022              PSYC2212 – Psychology and Social Behaviour (University of Western Australia)  
Responsibilities: Taught 4 2-hour classes (180 students) for 5 teaching weeks on social psychology topics such as social influence, cultural evolution, attitudes, stereotypes and prejudice, altruism and social groups, and graded accompanying assessments. I also developed all materials for two classes pertaining to misinformation and social influence, including developing the materials and grading criteria for the unit's main assessment piece for 2022 and 2023.
- 2021              PSYC1102 – Psychology: Behaviour in Context (University of Western Australia)  
Responsibilities: Taught 4 2-hour classes (80 students) for 6 teaching weeks covering an introduction to developmental psychology, social psychology, intelligence and personality, and abnormal psychology, and graded laboratory report assignments.
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## Technical Skills

### Statistical and Data Analysis

- Proficient in: RStudio, SPSS, Statistica, Jamovi, JASP
- Skilled in Bayesian hypothesis testing, multilevel modelling

### Survey and Experiment Programming

- Experienced with: Qualtrics, SurveyMonkey, JavaScript (primarily *jsPsych*), HTML

- Co-creator of *The Misinformation Game*, a custom experimental platform
- Data Collection and Management
- Platforms: Prolific Academic, Amazon Mechanical Turk, CloudResearch
  - Familiar with secure data handling and online participant recruitment
- Technical Tools and Platforms
- Open Science Framework, Git/GitHub, Firebase, Visual Studio Code
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## Service

### Ad-Hoc Manuscript Reviewing

*Acta Psychologica*, *Applied Psychology: Health and Well-Being* (×2), *Cognitive Research: Principles and Implications* (×3), *Journal of Applied Research in Memory and Cognition* (×3), *Personality and Individual Differences* (×2), *Political Analysis*, *Scientific Reports* (×2), *Self and Identity*, *Social Media + Society*

### Academic and Professional Engagements

- Panelist, *How to Peer Review* seminar for NetSI PhD students  
(With Alessandro Vespignani, Brennan Klein, David Lazer, Esteban Moro & Milo Trujillo)
- PhD Student Representative, Engagement and Impact Committee  
*School of Psychological Science, University of Western Australia* (2023–2024)
- Co-Coordinator, Reading Group  
*School of Psychological Science, UWA* (2022–2024)
- Facilitator, School of Psychological Science Exhibition, *UWA Open Day* (2023)
- Facilitator, High School Engagement Activities, *You Are Fake News: A Psychological Science Activity* (2022–2023)

### Consultation and Mentorship

- Consultant, Youth Affairs Council of Western Australia (2020)  
*Provided guidance on the impact of COVID-19 on regional and rural youth*
  - UniMentor, UWA Albany Campus (2017)
  - Peer-Assisted Learning Facilitator, *PSYC1101: Psychology Mind and Brain*, UWA Albany (2017)
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## Scholarships and Prizes

2024	Dean's List Honourable Mention—Recognition of an Outstanding Doctoral Thesis (top 5% of theses at the University of Western Australia)
2021 – 2024	Australian Government Research Training Program Stipend (\$30000 - \$35000 p/a)
2017	PSYC2213 Psychology: Lifespan Development Highest Achieving Student
2017	UWA Albany Science Scholarship (\$5000) Awarded based on academic achievement and enrolment in a Bachelor of Science at UWA Albany Campus
2016	Watkin's Family Prize (\$1000) Awarded to the UWA Albany first year student with the highest average mark across the four units they achieved their highest marks.
2016	Clive Malcolm Memorial Sustainability Scholarship (\$2500) Awarded based on academic achievement and enrolment at the UWA Albany campus

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**Media**

How to talk to your ‘skeptic’ family about science misinformation. *Popular Science*.  
<https://www.popsoci.com/health/how-to-talk-about-science-misinformation/>

Misinformation is easy to ignore online, but what to do when it permeates the festive family lunch?  
*The Monthly* <https://www.themonthly.com.au/blog/santilla-chingaipe/2024/19/2024/christmas-crackers>