Matthew Andreotta

PhD Student · Psychology

School of Psychological Science, University of Western Australia, 35 Stirling Highway, Crawley, Perth, Australia, 6009

Personal	
Date of Birth	January 1992
Citizenship	Australian
Research Int	rests
motivations that	uide reasoning—can vary within and between individuals. My research includes surveys, experiment
Education_	research Interests research investigates the drivers of belief and belief revision. In particular, I have explored how reasoning—and the tivations that guide reasoning—can vary within and between individuals. My research includes surveys, experiments, d social media studies. Uccation
Thesis title: Mei climate change	al models under ideological constraints: The psychological signatures underscoring audience segments
University of We Thesis title: Mer	FERN AUSTRALIA 20 al models of climate change: Using analogies to improve our predictions of the future
Bsc Psychology University of We	TERN AUSTRALIA 2013 - 20
Professional	Experience
Publications	
Deep Devices	MANUSCRIPTS PURILICUES OF IN PRESS

PEER REVIEWED MANUSCRIPTS - PUBLISHED OR IN PRESS

- Ecker, U. K. H., Sze, B. K. N., & Andreotta, M. (in press). Corrections of political misinformation: No evidence for an effect of partisan worldview in a U.S. convenience sample. *Philosophical Transactions of the Royal Society B*.
- Andreotta, M., Nugroho, R., Hurlstone, M. J., Boschetti, F., Farrell, S., Walker, I., & Paris, C. (2019). [Contribution to special issue on "Using Big Data to Discover Principles of Cognition" Analyzing social media data: A mixed-methods framework combining computational and qualitative text analysis. Behavior Research Methods, 51(4), 1766-1781.
- Boschetti, F., & Andreotta, M. (2017). Mental models, communication, and engagement in marine projects. ICES Journal of Marine Science, 74(7), 2034-2039.

PEER REVIEWED MANUSCRIPTS - IN PREPARATION

- **Andreotta, M.**, Boschetti, F., Farrell, S., Paris, C., Walker, I., & Hurlstone, M. J. (2021, in preparation). Evidence for three distinct climate change audience segments with varying belief updating tendencies: Implications for climate change communication.
- Jellison, S., **Andreotta, M.**, Cooper, C., Paris, P., Nugroho, R., & Vassar, M. (2021, in preparation). The use of Twitter in the Post Publication Peer Review process.
- Mortimer, M., Rossen, I., **Andreotta, M.**, Dunlop, P., & Hurlstone, M. J. (2021, in preparation). Accepters, fence sitters, or rejecters revisited: Converging evidence for different moral profiles of vaccination attitudes.

Awards, Fellowships, & Grants _____

AWARDS

Graduate Research School's Publication Award, University of Western Australia.

A yearly award issued for the best Quantitative Social Science publication by a higher degree student. Awarded for: *Analyzing social media data: A mixed-methods framework combining computational and qualitative text analysis*.

\$ 500

Postgraduate Top-Up Scholarship for "Gaining insights from social networks", Data61, Commonwealth Scientific and Industrial Research Organisation.

Research Training Program Stipend, Department of Education, Skills and Employment.

\$ 51,000

\$ 105,000

Presentations _____

INVITED TALKS

- **Andreotta, M.*** 2019. *Analysing social media: A mixed-methods framework for combining computational and text analysis.* Presented for Data61, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Sydney, Australia.
- **Andreotta, M.*** 2019. Tweeting about climate change: Blending data science and psychology to analyse social media. Guest Speaker for ENVT2221 (Global Climate Change and Biodiversity), University of Western Australia.
- **Andreotta, M.*** & Cavve, B.* 2018 & 2019. *Science is a liar (sometimes): Questionable practices in research and communication.* Guest Speaker for PSYC3303 (Psychological Science in the Modern World), University of Western Australia.
- **Andreotta, M.*** & Wang., S.* 2016. *It's (not) about climate change*. Guest Speaker for PSYC3303 (Psychological Science in the Modern World), University of Western Australia.

CONFERENCE PRESENTATIONS

Andreotta, M.* 2019. *Analysing social media: A mixed-methods framework for combining computational and text analysis.* Speaker for Australasian Mathematical Psychology Conference, Melbourne, Australia.

^{*} presenting author

Teaching Experience _____

PSYC3303: Psychological Science in the Modern World, Tutor.

This unit provides students with psychological theories, methods, and evidence for understanding and solving contemporary social problems. Additionally, students are taught the skills necessary to communicate science to key stakeholders. The topics of the unit vary year to year as key social issues and psychological evidence change. I was responsible for developing and delivering tutorials to equip students with knowledge of psychological theory and evidence, as well as the skills to think critically and communicate to laypeople and stakeholders. I have delivered several guest lectures for the unit. In 2016, I delivered a lecture providing cognitive psychological insights into the apparent inconsistencies of public perceptions on climate change. In later years, I delivered a lecture equipping students with critical thinking skills to examine science and science communication.

University of Western Australia

2016-2019

2018

PSYC 3310: Specialist Research Methods (Behavioural Economics), Tutor.

This unit provides students with the opportunity to learn about and perform research in a specialist topic area of psychology. Students are provided with seminars on psychological theories, methods, and evidence of a topic area, as well as skill-orientated tutorials. I tutored a class on behavioural economics research. As a tutor, I was responsible for teaching students to prepare ethics applications, prepare research proposals, design and run studies, analyse data, and prepare research reports.

University of Western Australia

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Research Supervision _____

2019 Julia Nunn, Honours, University of Western Australia (co-supervised with Mark Hurlstone).
Emma Sharpe, Honours, University of Western Australia (co-supervised with Mark Hurlstone).

Matthew Mortimer, Honours, University of Western Australia (co-supervised with Mark Hurlstone).

Service and Outreach _____

OUTREACH

School of Indigenous Study's Science Camp for High-School Students, University of Western Australia, Presenter.

School of Psychological Science's *Psyched@UWA* Event for High-School Students, University of Western Australia, Presented an interactive behavioural economics activity. ASPIRE Camp for High-School Students, University of Western Australia, Presented an interactive behavioural economics activity.

SERVICE

2019

Post-graduate Representative, Working Group on Addressing and Resolving Conflicts with Supervisors, School of Psychological Science, University of Western Australia.

Committee Member, Working Group on Gendered Discrimination and Misconduct, School of Psychological Science, University of Western Australia.

Co-director, OpenLab, School of Psychological Science, University of Western Australia. A student-led group to disseminate research and learn about open-science principles. **Assisted in Operations**, Pint of Science, Perth, Western Australia.

- Assisted in Conference Operations, Australasian Mathematical Psychology Conference, Perth, Western Australia, Australia.
- 2017 **Post-graduate Representative**, Gender Diversity Panel, School of Psychological Science, University of Western Australia.

PEER REVIEW

I am an ad hoc reviewer for Behavior Research Methods.

Technical Skills_

I am a proficient user of *R* and *ET_EX*. I am competent with *SPSS* and *JASP*. I have experience with *Python*, *JavaScript*, and *MATLAB*. I am proficient with tools for data storage and sharing, such as *Git* and *MySQL*, as well as data repositories, such as *Github*, *Bitbucket*, and the *Open Science Framework*.

I am proficient with experimental and survey designs. My understanding of *Qualtrics*, *JavaScript*, and *R* has allowed me to code complex experiments and custom Internet interfaces for online studies. I am experienced with hosting custom web applications on servers, with the use of virtualisation software (that is, *Docker*). One such interface can be found at https://climatecards.psy.uwa.edu.au/?ID=1234567. Additionally, I am experienced with the collection of Twitter data.

I am proficient with quantitative, qualitative, and mixed-methods approaches. Regarding quantitative techniques, I am competent with methods to handle large and complex data, such as mixed-effects modelling, regression analyses (e.g., ridge and lasso), and bootstrapping methods. I have experience with some data science analyses, such as topic modelling. Concerning qualitative techniques, I am experienced in analysis of text data, such as thematic analysis and content analysis. Lastly, I have expertise in blending quantitative and qualitative analyses under mixed-methods frameworks, such as my four-phased framework [1] and integrating insights from quantitative survey data with insights from text responses to openended questions.

REFERENCES

[1] Andreotta, M., Nugroho, R., Hurlstone, M. J., Boschetti, F., Farrell, S., Walker, I., & Paris, C. (2019). Analyzing social media data: A mixed-methods framework combining computational and qualitative text analysis. *Behavior Research Methods*, 51(4), 1766–1781.