

CURRICULUM VITAE

GORDON PENNYCOOK

CONTACT INFORMATION

Hill School of Business
Levene Graduate School of Business
Department of Psychology
University of Regina
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EDUCATION

Doctor of Philosophy, University of Waterloo
Advisors: Dr. Jonathan Fugelsang and Dr. Derek Koehler 2011 – 2016

Master of Arts, University of Waterloo
Advisors: Dr. Jonathan Fugelsang and Dr. Derek Koehler 2010 - 2011

Bachelor of Arts (Honours), University of Saskatchewan
Advisor: Dr. Valerie Thompson 2005 - 2009

PROFESSIONAL EXPERIENCE

Assistant Professor, Hill/Levene Schools of Business, University of Regina 2018 - present

Banting Postdoctoral Fellow, Yale University
Advisor: Dr. David Rand 2016 - 2018

Lecturer, School of Management, Yale University 2017

Lecturer, Department of Psychology, University of Waterloo 2014

SUMMARY

Research grants awarded: \$4,510,441 (CAD) since 2015
Peer-reviewed journal publications: 66
Google Scholar Citations = 6481 (2028 in 2020), h-index = 36, i10-index = 56

RESEARCH FUNDING

Social Sciences and Humanities Research Council of Canada: Insight Grant. “The psychology of online disinformation” (PI)	\$316,160 (CAD)	2020 - 2025
Natural Sciences and Engineering Council of Canada College and Community Innovation Program: “Community Ideas Factory: Behavioural Insights Unit” (co-applicant)	\$360,000 (CAD)	2020 - 2023
Canadian Institutes of Health Research Grant: “Coronavirus Outbreak: Mapping and Countering Misinformation” (co-PI)	\$381,708 (CAD)	2020 - 2021

Reset Research Grant: “Interventions to Combat the Spread of Misinformation on Social Media” (PI)	\$200,000 (USD)	2020
Social Sciences and Humanities Research Council of Canada: Partnership Grant. “Global Journalism Innovation Lab: Revitalizing journalism and accelerating knowledge mobilization from Canadian universities” (co-applicant)	\$2,472,154 (CAD)	2019 - 2024
Miami Foundation: The Ethics and Governance of Artificial Intelligence Fund. “Understanding and combating misinformation and fake news online” (PI)	\$275,000 (USD)	2018
Social Sciences and Humanities Research Council of Canada: Insight Development Grant. “Everyday consequences of analytic thinking” [Ranked #1 in Canada] (PI)	\$48,730 (CAD)	2018 - 2020
Templeton Foundation: Understanding Unbelief Grant. “Mapping the Psychology of Unbelief Across Contexts and Cultures” (co-applicant)	\$249,096 (USD)	2017 - 2019
Social Sciences and Humanities Research Council of Canada: Banting Postdoctoral Fellowship [Ranked #1 in Canada] (PI)	\$140,000 (CAD)	2016 - 2018
Natural Science Engineering Research Council of Canada: Postdoctoral Fellowship [Ranked #1 in Canada] (PI) (declined)	\$90,000 (CAD)	2016 - 2018
Central Queensland University Population Lab Grant. “Health Beliefs and Behaviours” (co-applicant)	\$12,500 (AUS)	2015

PUBLISHED WORKS

*indicates equal contribution, †indicates senior authorship, ‡indicates graduate student or postdoc

for media coverage see: [link](#)

SELECTED PUBLICATIONS

- Bago[‡], B., Rand, D. G., & Pennycook[†], G. (2020). Fake news, fast and slow: Deliberation reduces belief in false (but not true) news headlines. *Journal of Experimental Psychology: General*.
- Mosleh, M., Pennycook, G., Arechar, A. A., & Rand, D. G. (in press). Digital fingerprints of cognitive reflection. *Nature Communications*
- Pennycook, G., Bear, A., Collins[‡], E., & Rand, D. G. (2020). The implied truth effect: Attaching warnings to a subset of fake news headlines increases perceived accuracy of headlines without warnings. *Management Science*.
- Pennycook, G., McPhetres[‡], J. Zhang[‡], Y., Lu, J. G., & Rand, D. G. (in press). Fighting COVID-19 misinformation on social media: Experimental evidence for a scalable accuracy nudge intervention. *Psychological Science*.
- Tappin[‡], B. M., Pennycook, G. & Rand, D. G. (in press). Rethinking the link between cognitive sophistication and politically motivated reasoning, *Journal of Experimental Psychology: General*.
- Van Bavel, J. J., Baicker, K., Boggio, P. S., Capraro, V., Cichocka, A., Cikara, M., Crockett, M. J., Crum, A. J., Douglas, K. M., Druckman, J. N. Drury, J., Dube, O., Ellemers, N., Finkel, E. J., Fowler, J. H., Gelfand, M., Han, S., Haslam, S. A., Jetten, J., Kitayama, S., Mobbs, D., Napper, L. E., Packer, D. J., Pennycook, G., Peters, E., Petty, R. E., Rand, D. G., Reicher, S. D., Schnall, S., Shariff, A., Skitka, L. J., Smith, S. S., Sunstein, C. R., Tabri, N., Tucker, J. A., van der Linden, S., Van Lange, P. A. M., Weeden, K. A., Wohl, M.

- J. A., Zaki, J., Zion, S. & Willer, R. (2020). Using social and behavioural science to support COVID-19 pandemic response. *Nature Human Behavior*.
- Bronstein[‡], M. V., **Pennycook, G.**, Joorman, J., Corlett, P. R., & Cannon, T. D. (2019). Dual-process theory, conflict processing, and delusional belief. *Clinical Psychology Review*, 72, 101748.
- De Neys, W., & **Pennycook, G.** (2019). Logic, fast and slow: Advances in dual-process theorizing. *Current Directions in Psychological Science*, 28, 503-509.
- Pennycook, G.** & Rand, D. G. (2019). Fighting misinformation on social media using crowdsourced judgments of news source quality. *Proceedings of the National Academy of Sciences*, 116, 2521-2526.
- Pennycook, G.** & Rand, D. G. (2019). Lazy, not biased: Susceptibility to partisan fake news is better explained by lack of reasoning than by motivated reasoning. *Cognition*, 188, 39-50.
- Pennycook, G.**, Cannon, T. D., & Rand, D. G. (2018). Prior Exposure Increases Perceived Accuracy of Fake News. *Journal of Experimental Psychology: General*, 147, 1865-1880.
- Pennycook, G.**, De Neys, W., Evans, J. St. B. T., Stanovich, K. E., & Thompson, V. A. (2018). The mythical dual-process typology. *Trends in Cognitive Sciences*, 22, 667-668.
- Lazer, D., Baum, M., Benkler, J., Berinsky, A., Greenhill, K., Menczer, F., Metzger, M., Nyhan, B., **Pennycook, G.**, Rothschild, D., Sloman, S., Sunstein, C., Thorson, E., Watts, D., & Zittrain, J. (2018). The science of fake news. *Science*, 9, 1094-1096.
- Thompson, V. A., **Pennycook, G.**, Trippas, D. & Evans, J. St. B. T. (2018). Do Smart People Have Better Intuitions? *Journal of Experimental Psychology: General*, 147, 945-961.
- Pennycook, G.**, Fugelsang, J.A., & Koehler, D.J. (2015). What makes us think? A three-stage dual-process model of analytic engagement. *Cognitive Psychology*, 80, 34-72.
- Pennycook, G.**, Fugelsang, J.A., & Koehler, D.J. (2015). Everyday consequences of analytic thinking. *Current Directions in Psychological Science*, 24, 425-43.
- Pennycook, G.**, Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2015) On the reception and detection of pseudo-profound bullshit. *Judgment and Decision Making*, 10, 549-563.
- Meyer, A., Frederick, S., Burnham, T., Guevara Pinto, J. D., Boyer, T. W., Ball, L. J., **Pennycook, G.**, Ackerman, R., & Thompson, V.A. (2015). Disfluent fonts don't help people solve math problems. *Journal of Experimental Psychology: General*, 144, e16-e30.
- Thompson, V.A., Prowse Turner, J., **Pennycook, G.**, Ball, L., Brack, H., Ophir, Y. & Ackerman, R. (2013). The role of answer fluency and perceptual fluency as metacognitive cues for initiating analytic thinking. *Cognition*, 128, 237-251.
- Cheyne, J.A. & **Pennycook, G.** (2013). Sleep paralysis post-episode distress: Modeling potential effects of episode characteristics, general psychological distress, beliefs, and cognitive style. *Clinical Psychological Science*, 1, 135-148.
- Pennycook, G.**, Cheyne, J.A., Seli, P., Koehler, D.J. & Fugelsang, J.A. (2012). Analytic cognitive style predicts religious and paranormal belief. *Cognition*, 213, 335-346.
- Pennycook, G.**, Fugelsang, J.A. & Koehler, D.J. (2012). Are we good at detecting conflict during reasoning? *Cognition*, 124, 101-106.
- Thompson, V.A., Prowse Turner, J. & **Pennycook, G.** (2011). Intuition, reason and metacognition. *Cognitive Psychology*, 63, 107-140.

1. Bago[‡], B., Rand, D.G., & **Pennycook[‡], G.** (2020). Fake news, fast and slow: Deliberation reduces belief in false (but not true) news headlines. *Journal of Experimental Psychology: General*.
2. De keersmaecker[‡], J., Dunning, D., **Pennycook, G.**, Rand, D. G., Sanchez[‡], C., Unkelbach, C., & Roets, A. (2020). Investigating the robustness of the illusory truth effect across individual differences in cognitive ability, need for cognitive closure, and cognitive style. *Personality and Social Psychology Bulletin*, 46, 204-215.
3. Dias[‡], N., **Pennycook, G.** & Rand, D.G. (2020). Emphasizing publishers does not effectively reduce susceptibility to misinformation on social media. *The Harvard Kennedy School (HKS) Misinformation Review*.
4. Epstein[‡], Z., **Pennycook, G.** & Rand, D.G. (in press). Will the crowd game the algorithm? Using layperson judgments to combat misinformation on social media by downranking distrusted sources. *Proceedings of the ACM on Human-Computer Interaction*.
5. Mosleh, M., **Pennycook, G.** & Rand, D. G. (2020). Self-reported willingness to share political news articles in online surveys correlates with actual sharing on Twitter. *PLOS One*, 15, e0228882.
6. Mosleh, M., **Pennycook, G.**, Arechar, A. A., & Rand, D. G. (in press). Digital fingerprints of cognitive reflection. *Nature Communications*
7. **Pennycook, G.**, Bear, A., Collins[‡], E., & Rand, D. G. (2020). The implied truth effect: Attaching warnings to a subset of fake news headlines increases perceived accuracy of headlines without warnings. *Management Science*.
8. **Pennycook, G.**, Cheyne, J. A., Koehler, D. J., & Fugelsang, J. A. (in press). On the belief that beliefs should change according to evidence: Implications for conspiratorial, moral, paranormal, political, religious, and science beliefs. *Judgment & Decision Making*.
9. **Pennycook, G.**, McPhetres[‡], J. Zhang[‡], Y., Lu, J. G., & Rand, D. G. (in press). Fighting COVID-19 misinformation on social media: Experimental evidence for a scalable accuracy nudge intervention. *Psychological Science*.
10. **Pennycook, G.** & Rand, D. G. (2020). Who falls for fake news? The roles of bullshit receptivity, overclaiming, familiarity, and analytic thinking. *Journal of Personality*, 88, 185-200.
11. Tappin[‡], B. M., **Pennycook, G.** & Rand, D. G. (2020). Thinking clearly about causal inferences of politically motivated reasoning: Why paradigmatic study designs often undermine causal inference. *Current Opinion in Behavioral Sciences*, 34, 81-87.
12. Tappin[‡], B. M., **Pennycook, G.** & Rand, D. G. (in press). Rethinking the link between cognitive sophistication and politically motivated reasoning, *Journal of Experimental Psychology: General*.
13. Tappin[‡], B. M., **Pennycook, G.** & Rand, D. G. (in press). Bayesian or biased? Analytic thinking and political belief updating. *Cognition*.
14. Van Bavel, J. J., Baicker, K., Boggio, P. S., Capraro, V., Cichocka, A., Cikara, M., Crockett, M. J., Crum, A. J., Douglas, K. M., Druckman, J. N. Drury, J., Dube, O., Ellemers, N., Finkel, E. J., Fowler, J. H., Gelfand, M., Han, S., Haslam, S. A., Jetten, J., Kitayama, S., Mobbs, D., Napper, L. E., Packer, D. J., **Pennycook, G.**, Peters, E., Petty, R. E., Rand, D. G., Reicher, S. D., Schnall, S., Shariff, A., Skitka, L. J., Smith, S. S., Sunstein, C. R., Tabri, N., Tucker, J. A., van der Linden, S., Van Lange, P. A. M., Weeden, K. A., Wohl, M. J. A., Zaki, J., Zion, S. & Willer, R. (2020). Using social and behavioural science to support COVID-19 pandemic response. *Nature Human Behavior*, 4, 460-471.
15. Bronstein[‡], M. V., **Pennycook, G.**, Bear, A., Rand, D.G., & Cannon, T. D. (2019). Belief in Fake News is Associated with Delusionality, Dogmatism, Religious Fundamentalism, and Reduced Analytic Thinking. *Journal of Applied Research in Memory and Cognition*, 8, 108-117.

16. Bronstein[‡], M. V., **Pennycook, G.**, Joorman, J., Corlett, P. R., & Cannon, T. D. (2019). Dual-process theory, conflict processing, and delusional belief. *Clinical Psychology Review*.
17. De Neys, W., & **Pennycook, G.** (2019). Logic, fast and slow: Advances in dual-process theorizing. *Current Directions in Psychological Science*, 28, 503-509.
18. Fazio, L., Rand, D.G., & **Pennycook, G.** (2019). Repetition increases perceived truth equally for plausible and implausible statements. *Psychonomic Bulletin & Review*, 26, 1705-1710.
19. Koehler, D. J. & **Pennycook, G.** (2019). How the public, and scientists, perceive advancement of knowledge from conflicting study results. *Judgment and Decision Making*, 14, 671-682.
20. **Pennycook, G.** & Rand, D. G. (2019) Fighting misinformation on social media using crowdsourced judgments of news source quality. *Proceedings of the National Academy of Sciences*, 116, 2521-2526.
21. **Pennycook, G.** & Rand, D. G. (2019). Susceptibility to partisan fake news is explained more by lack of reasoning than by motivated reasoning. *Cognition*, 188, 39-50.
22. **Pennycook, G.** & Rand, D. G. (2019). Cognitive reflection and the 2016 US Presidential election. *Personality and Social Psychology Bulletin*, 45, 224-239.
23. Ross*, R. M., Brown-Iannuzzi*, J. L., Gervais, W. M., Jong, J., Lanman, J. A., McKay, R., & **Pennycook, G.** (2019). Measuring supernatural belief using the affect misattribution procedure. *Religion, Brain and Behavior*.
24. Stagnaro[‡], M. N., Ross, R. M., **Pennycook, G.**, & Rand, D. G. (2019). Cross cultural support for a link between analytic thinking and disbelief in God: Evidence from India and the United Kingdom. *Judgment and Decision Making*, 14, 179-186.
25. Lazer, D., Baum, M., Benkler, J., Berinsky, A., Greenhill, K., Menczer, F., Metzger, M., Nyhan, B., **Pennycook, G.**, Rothschild, D., Sloman, S., Sunstein, C., Thorson, E., Watts, D., & Zittrain, J. (2018). The science of fake news. *Science*, 9, 1094-1096.
26. **Pennycook, G.**, Cannon, T. D., & Rand, D. G. (2018). Prior Exposure Increases Perceived Accuracy of Fake News. *Journal of Experimental Psychology: General*, 147, 1865-1880
27. **Pennycook, G.** & Thompson, V. A. (2018). An analysis of the Canadian cognitive psychology job market (2006-2016). *Canadian Journal of Experimental Psychology*, 72, 71-80.
28. Stagnaro[‡], M. N., **Pennycook, G.**, & Rand, D. G. (2018). Performance on the Cognitive Reflection Test is stable across time. *Judgment and Decision Making*, 13, 260-267.
29. Thompson, V. A., **Pennycook, G.**, Trippas, D. & Evans, J. St. B. T. (2018). Do Smart People Have Better Intuitions? *Journal of Experimental Psychology: General*, 147, 945-961.
30. Trippas, D., Kellen, D., Singmann, H., **Pennycook, G.**, Koehler, D. J., Fugelsang, J. A., & Dubé, C. (2018). Characterizing Belief Bias in Syllogistic Reasoning: A Hierarchical-Bayesian Meta-Analysis of ROC Data. *Psychonomic Bulletin & Review*, 25, 2141–2174.
31. Bialek*, M. & **Pennycook*, G.** (2017). The cognitive reflection test is robust to multiple exposures. *Behavior Research Methods*, 50, 1953–1959.
32. **Pennycook, G.**, Ross, R., Koehler, D.J., & Fugelsang, J.A. (2017). Dunning-Kruger effects in reasoning: Theoretical implications of the failure to recognize incompetence. *Psychonomic Bulletin & Review*, 24, 1774–1784.
33. **Pennycook, G.**, Cheyne, J.A., Koehler, D.J. & Fugelsang, J.A. (2016). Is the cognitive reflection test a measure of both reflection and intuition? *Behavior Research Methods*, 48, 341–348.
34. **Pennycook, G.**, Ross, R., Koehler, D.J., & Fugelsang, J.A. (2016). Atheists and agnostics are more reflective than religious believers: Four empirical studies and a meta-analysis. *PLOS One*, 11, e0153039.

35. Ross, R. M., **Pennycook, G.**, McKay, R., Gervais, W. M., Langdon, R., & Coltheart, M. (2016). Analytic thinking style, not delusional ideation, predicts data gathering in a large beads task study. *Cognitive Neuropsychiatry*, 21, 300-314.
36. Sterling, J. L., Jost, J. T., & **Pennycook, G.** (2016). Are neoliberals more susceptible to bullshit? *Judgment and Decision Making*, 11, 352-360.
37. Barr*, N., **Pennycook*, G.**, Stolz, J.A., & Fugelsang, J.A. (2015). The brain in your pocket: Evidence that Smartphones are used to supplant thinking. *Computers in Human Behavior*, 48, 473-480.
38. Barr, N., **Pennycook, G.**, Stolz, J.A., & Fugelsang, J.A. (2015). Reasoned connections: A dual-process perspective on creative thought. *Thinking & Reasoning*, 21, 61-75. [Special Issue on Creativity and Insight Problem Solving]
39. Browne, M., Thomson, P., Rockloff, M., & **Pennycook, G.** (2015). Going against the herd: Understanding the psychosocial factors underlying the ‘vaccination confidence gap’. *PLOS One*, 10, e1032562.
40. Meyer, A., Frederick, S., Burnham, T., Guevara Pinto, J. D., Boyer, T. W., Ball, L. J., **Pennycook, G.**, Ackerman, R., & Thompson, V.A. (2015). Disfluent fonts don’t help people solve math problems. *Journal of Experimental Psychology: General*, 144, e16-e30.
41. Medimorec*, S. & **Pennycook*, G.** (2015). The language of denial: Text analysis reveals differences in language use between climate change proponents and skeptics. *Climatic Change*, 1-9. [See also: [Nature](#), 525, 292.]
42. **Pennycook, G.**, Fugelsang, J.A., & Koehler, D.J. (2015). What makes us think? A three-stage dual-process model of analytic engagement. *Cognitive Psychology*, 80, 34-72.
43. **Pennycook, G.**, Fugelsang, J.A., & Koehler, D.J. (2015). Everyday consequences of analytic thinking. *Current Directions in Psychological Science*, 24, 425-43.
44. **Pennycook, G.**, Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2015) On the reception and detection of pseudo-profound bullshit. *Judgment and Decision Making*, 10, 549-563.
45. Trippas, D., **Pennycook, G.**, Verde, M.F., & Handley, S.J. (2015). Better but still biased: Analytic cognitive style and belief bias. *Thinking & Reasoning*, 21, 431-455.
46. Browne, M., **Pennycook, G.**, Goodwin, B., & McHenry, M. (2014). Reflective minds and open hearts: Cognitive style and personality predict religiosity and spiritual thinking in a community sample. *European Journal of Social Psychology*, 44, 736-742.
47. **Pennycook, G.**, Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2014). The role of analytic thinking in moral judgments and values. *Thinking & Reasoning*, 20, 188-214. [Special Issue on Dual-Process Theories]
48. **Pennycook, G.**, Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2014). Cognitive style and religiosity: The role of conflict detection. *Memory & Cognition*, 42, 1-10.
49. **Pennycook*, G.**, Trippas*, D., Handley, S. J., & Thompson, V.A. (2014). Base-rates: Both neglected and intuitive. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 40, 544-554.
50. Cheyne, J.A. & **Pennycook, G.** (2013). Sleep paralysis post-episode distress: Modeling potential effects of episode characteristics, general psychological distress, beliefs, and cognitive style. *Clinical Psychological Science*, 1, 135-148.
51. **Pennycook, G.**, Cheyne, J.A., Koehler, D.J. & Fugelsang, J.A. (2013). Belief bias during reasoning among religious believers and skeptics. *Psychonomic Bulletin & Review*, 20, 806-811.

52. Thompson, V.A., Prowse Turner, J., **Pennycook, G.**, Ball, L., Brack, H., Ophir, Y. & Ackerman, R. (2013). The role of answer fluency and perceptual fluency as metacognitive cues for initiating analytic thinking. *Cognition*, 128, 237-251.
53. **Pennycook, G.**, Cheyne, J.A., Seli, P., Koehler, D.J. & Fugelsang, J.A. (2012). Analytic cognitive style predicts religious and paranormal belief. *Cognition*, 213, 335-346.
54. **Pennycook, G.**, Fugelsang, J.A. & Koehler, D.J. (2012). Are we good at detecting conflict during reasoning? *Cognition*, 124, 101-106.
55. **Pennycook, G.** & Thompson, V.A. (2012). Reasoning with base-rates is routine, relatively effortless and context-dependent. *Psychonomic Bulletin & Review*, 19, 528-534.
56. Thompson, V.A., Prowse Turner, J. & **Pennycook, G.** (2011). Intuition, reason and metacognition. *Cognitive Psychology*, 63, 107-140.

COMMENTARIES & REPLIES

57. **Pennycook, G.** (2020). Belief bias and its significance for modern social science. *Psychological Inquiry*, 31, 57-60. [Commentary on Clark & Winegard, 2020]
58. **Pennycook, G.**, De Neys, W., Evans, J. St. B. T., Stanovich, K. E., & Thompson, V. A. (2018). The mythical dual-process typology. *Trends in Cognitive Sciences*, 22, 667-668. [Commentary on Melnikoff & Bargh, 2018]
59. **Pennycook, G.** (2018). You are not your data. *Behavioral and Brain Sciences*. [Commentary on Zwaan, Etz, Lucas, & Donnelan, 2018]
60. **Pennycook, G.** & Rand, D. G. (2017). The evolution of analytic thinking? *Behavioral and Brain Sciences*. [Commentary on Burkart, Schubiger, & van Schaik, 2017]
61. **Pennycook, G.**, Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2016). It's still bullshit: Reply to Dalton. *Judgment and Decision Making*, 11, 123-125.
62. **Pennycook, G.**, Fugelsang, J.A., Koehler, D.J., & Thompson, V.A. (2016) Commentary on: Rethinking fast and slow based on a critique of reaction-time reverse inference. *Frontiers in Psychology*.
63. **Pennycook, G.** & Ross, R.M. (2016). Commentary on: Cognitive reflection vs. calculation in decision making. *Frontiers in Psychology*, 7, 9.
64. **Pennycook, G.** (2015). Domain generality in religious cognition. *Religion, Brain & Behavior*, 5, 247-250. [Commentary on Johnson, Li, & Cohen, 2015.]
65. **Pennycook, G.** (2014). Evidence that analytic cognitive style influences religious belief: Comment on Razmyar and Reeve (2014). *Intelligence*, 43, 21-26.
66. Thompson, V.A., Ackerman, R., Sidi, Y., Ball, L., **Pennycook, G.**, & Prowse Turner, J. (2013). The role of answer fluency and perceptual fluency in the monitoring and control of reasoning: Reply to Alter, Oppenheimer, & Epley (2013). *Cognition*, 128, 256-258.

MANUSCRIPTS UNDER REVIEW

- Bronstein[‡], M. V., **Pennycook, G.**, Buonomano, L. & Cannon, T. D. Belief in Fake News, Responsiveness to Cognitive Conflict, and Analytic Reasoning Engagement.

- Feeney, J. R., **Pennycook, G.**, & Van Boxtel, M. OpenMTurk: An open-source administration tool for designing robust MTurk studies. [SSRN](#)
- Martel[‡], C., **Pennycook, G.** & Rand, D. G. Reliance on emotion promotes belief in fake news. [PsyArXiv](#)
- McPhetres[‡], J., & **Pennycook[†], G.** Science beliefs, political ideology, and cognitive sophistication. [PsyArXiv](#)
- McPhetres[‡], J., & **Pennycook[†], G.** Lay people are unimpressed by graphs depicting effect sizes typically reported in psychological science. [PsyArXiv](#)
- Murray[‡], S., Stanley[‡], M., McPhetres[‡], J., **Pennycook[†], G.** & Seli, P. "I've said it before and I will say it again": Repeating statements made by Donald Trump increases perceived truthfulness for individuals across the political spectrum. [PsyArXiv](#)
- Pennycook^{*}, G.**, Epstein^{*‡}, Z., Mosleh^{*}, M., Arechar, A. A., Eckles, D., & Rand, D. G. Understanding and reducing the spread of misinformation online. [PsyArXiv](#)
- Pennycook, G.**, McPhetres[‡], J. Bago[‡], B., & Rand, D. G. Attitudes about COVID-19 in Canada, the U.K., and the U.S.A.: A novel test of political polarization and motivated reasoning. [PsyArXiv](#)
- Ross, R. M., Rand, D. G., & **Pennycook[†], G.** Beyond “fake news”: The role of analytic thinking in the detection of inaccuracy and partisan bias in news headlines.

EDITED BOOK

- Pennycook, G.** (Ed.). (2018). *The New Reflectionism in Cognitive Psychology: Why Reason Matters*. Hove, UK: Psychology Press.

CHAPTERS

- Pennycook, G.**, Tranel, D., Warner, K., & Asp, E. W. (2019). Beyond reasonable doubt: Cognitive and neuropsychological implications for religious disbelief. In A. Coles & J. Collicutt (Eds.), *Neurology and Religion*. Cambridge, Cambridge University Press.
- Pennycook, G.** (2018). Why reason matters: An introduction. In G. Pennycook (Ed.). *The New Reflectionism in Cognitive Psychology: Why Reason Matters*. Hove, UK: Psychology Press.
- Barr, N. & **Pennycook, G.** (2018). Why reason matters: Connecting research on human reason to the challenges of the anthropocene. In G. Pennycook (Ed.). *The New Reflectionism in Cognitive Psychology: Why Reason Matters*. Hove, UK: Psychology Press.
- Pennycook, G.** (2017). A perspective on the theoretical foundation of dual-process models. In W. De Neys (Ed.). *Dual Process Theory 2.0*. Hove, UK: Psychology Press.
- Pennycook, G.** & Thompson, V.A. (2016). Base-rate neglect. In R. Pohl (Ed.). *Cognitive Illusions: Intriguing Phenomena in Thinking, Judgment, and Memory* (2nd ed.). Hove, UK: Psychology Press.

POPULAR PRESS ARTICLES

- Pennycook, G.** (2020). How the COVID-19 crisis exposes widespread climate change hypocrisy. *CBC*.
- Pennycook, G.** & Rand, D. G. (2020). The Right Way to Fight Fake News. *The New York Times*.
- Pennycook, G.** & Rand, D. G. (2019). Why Do People Fall for Fake News? *The New York Times*.
- Pennycook, G.**, Martel, C., & Rand, D. G. (2019). Knowing how fake news preys on your emotions can help you spot it. *CBC*.

- Rand, D. G. & Pennycook, G. (2019). Crowdsourcing is the best weapon in fight against fake news. *The Hill*.
- Barr, N. & Pennycook, G. (2018). The most dangerous and misunderstood threat to humanity is the human mind. *Quartz*. [Note: We did *not* choose this title.]
- Cheyne*, J.A. & Pennycook*, G. (2016). The seductions of pretentious bullshit: An empirical study. *Skeptical Magazine*, 21, 40-45.
- Pennycook, G. (2016). Why bullshit is no laughing matter. *Aeon Digital Magazine*.

INVITED TALKS

- Pennycook, G.** (2020). Fighting misinformation online in the age of COVID-19. IDeaS Seminar Series, Carnegie Mellon University, Pennsylvania.
- Pennycook, G.** (2020). On COVID-19 Misperceptions: Ideology, fake news, and cognitive sophistication. Cognitive Seminar Series, University of Waterloo, Ontario.
- Pennycook, G.** (2020). On the psychology of misperceptions about COVID-19: Ideology, fake news, and cognitive sophistication. Hot Politics Lab, University of Amsterdam, Netherlands.
- Pennycook, G.** (2020). How subtle reminders about accuracy can decrease misinformation sharing on social media. European Council on Digital Media and Social Behaviour, Brussels, Belgium. [Cancelled due to COVID-19]
- Pennycook, G.** (2019). Reasoning like good lawyers or bad philosophers? On the source of reasoning errors. Department of Psychology, University of Stockholm, Stockholm, Sweden.
- Pennycook, G.** (2019). On the source of reasoning errors. Epistemology & Psychology Workshop, Fordham University, New York, NY.
- Pennycook, G.** (2019). Reasoning like good lawyers or bad philosophers? Why people fall for fake news. Department of Psychology, University of Saskatchewan, Saskatoon, SK.
- Pennycook, G.** (2018). Reasoning like good lawyers or bad philosophers? Why people fall for fake news. Department of Psychology, University of Toronto (Scarborough), Toronto, ON.
- Pennycook, G.** (2018). Reasoning like good lawyers or bad philosophers? Why people fall for fake news. Department of Psychology, Yale University, New Haven, CT.
- Pennycook, G.** (2018). Understanding and combating fake news. The Wharton School, University of Pennsylvania, Philadelphia, PA.
- Pennycook, G.** (2018). Understanding and combating fake news. Department of Psychology, University of Saskatchewan, Saskatoon, SK.
- Pennycook, G.** (2017). Understanding and combating fake news. Department of Psychology, Harvard University, Cambridge, MA.
- Pennycook, G.** (2017). Bullshit: Pseudo-profound and otherwise. School of Management, Yale University, New Haven, CT.
- Pennycook, G.** (2017). Analytic thinking, pseudo-profound bullshit, and fake news. Department of Psychology, Brown University, Providence, RI.
- Pennycook, G.** (2017). Applying cognitive psychology. Hill/Levene Schools of Business, University of Regina, Regina, SK.
- Pennycook, G.** (2017). Prior exposure increases perceived accuracy of fake news. Conference for Combating Fake News: An Agenda for Research and Action. Harvard Law School & Northeastern University, Cambridge & Boston, MA. <https://shorensteincenter.org/combating-fake-news-agenda-for-research/>
- Pennycook, G.** (2016). The causes and consequences of analytic thinking. Department of Psychology, University of British Columbia, Vancouver, BC.
- Pennycook, G.** (2016). A psychology of bullshit? Society of Judgment and Decision Making Preconference on Debiasing, Boston, MA.

- Pennycook, G.,** Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2015) On the reception and detection of pseudo-profound bullshit. Trent University Physics and Chemistry Seminar, Peterborough, ON.
- Pennycook, G.,** Cheyne, J.A., Barr, N., Fugelsang, J.A. & Koehler, D.J. (2012) Analytic thinking, morality, and religion: Why reason is important. Waterloo Mind Society Graduate Student Colloquium, University of Waterloo, ON.

PUBLIC LECTURES

- Pennycook, G.** (2020). Fake news, political ideology, and climate change. Academics for Climate: Community Series, Regina, SK.
- Pennycook, G.** (2019). Why we fall for fake news (and other bullshit). CsiCon2019, Las Vegas, NV.
- Pennycook, G.** (2019). Why we fall for fake news (and other bullshit). Health Science Pub Talk, Regina, SK.
- Pennycook, G.** (2019). Why people fall for fake news (and what to do about it). University of Regina Alumni Association, Regina, SK.

CONFERENCE PRESENTATIONS

- Pennycook, G.,** Tappin, B. M., & Rand, D. G. (2020). Attitude updating, motivated reasoning, and cognitive reflection: Two natural experiments relating to the Cohen testimony and Mueller Report. Society for Personality and Social Psychology Annual Meeting (Politics Preconference), New Orleans, LA. (international; oral)
- Pennycook, G.,** Cheyne, J. A., Koehler, D. J., & Fugelsang, J. A. (2019). On the belief that beliefs should change according to evidence: Implications for conspiratorial, moral, paranormal, political, religious, and science beliefs. Society of Judgment and Decision Making Annual Conference, Montreal, QC. (international; poster)
- Pennycook, G.** & Rand, D. G. (2019). Exceptional overconfidence: Implications for conspiracy belief and bullshit receptivity. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Waterloo, ON. (national; oral)
- Pennycook, G.** & Rand, D. G. (2019). Political ideology, cognitive reflection, fake news, and the mainstream media. Are people good at detecting bullshit? Society for Personality and Social Psychology Annual Meeting, Portland, OR. (international; oral) [symposium presentation]
- Pennycook, G.** & Rand, D. G.* (2018). Combatting fake news. Society of Judgment and Decision Making Annual Conference, New Orleans, LA. (international; oral)
- Pennycook, G.** & Rand, D. G. (2018). Lazy, not biased: Susceptibility to partisan fake news is better explained by lack of reasoning than by motivated reasoning. Society of Judgment and Decision Making Annual Conference, New Orleans, LA. (international; poster)
- Pennycook, G.** & Rand, D. G. (2018). Lazy, not biased: Susceptibility to partisan fake news is better explained by lack of reasoning than by motivated reasoning. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, St. John's, NL. (national; oral)
- Pennycook, G.** (2018). Are people good at detecting bullshit? Society for Personality and Social Psychology Annual Meeting, Atlanta, GA (postgraduate; international; oral) [symposium presentation]
- Pennycook, G.,** Fugelsang, J.A., & Koehler, D.J. (2017). A three-stage model of analytic engagement. Psychonomics Society Annual Conference, Vancouver, B.C. (postgraduate; international; oral) [symposium presentation]
- Pennycook, G.,** Rand, D.G., Koehler, D.J., & Fugelsang, J.A. (2017). Reversing the meaning of pseudo-profound bullshit has no impact for intuitive individuals. Society of Judgment and Decision Making Annual Conference, Vancouver, B.C. (postgraduate; international; poster).

- Pennycook, G., Cannon, T. D., & Rand, D. G. (2017).** Prior exposure increases perceived accuracy of fake news. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Regina, SK. (postgraduate; national; oral)
- Pennycook, G. (2017).** The Canadian cognitive science job market (2006-2016). Society for Brain, Behaviour and Cognitive Science Annual Conference, Regina, SK. (postgraduate; national; oral)
- Pennycook, G., Fugelsang, J.A., & Koehler, D.J. (2016).** Atheists and agnostics are more reflective than religious believers: Four empirical studies and a meta-analysis. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Ottawa, ON. (graduate; national; oral)
- Pennycook, G., Fugelsang, J.A., & Koehler, D.J. (2016).** Bullshit detection and cognitive reflection. Southern Ontario Behavioral Decision Research Conference, London, ON. (graduate; regional; poster)
- Pennycook, G., Fugelsang, J.A., & Koehler, D.J. (2015).** On the (nearly ubiquitous) desire for greater wealth equality in the United States: A follow-up to Norton & Ariely (2011). Society of Judgment and Decision Making Annual Conference, Chicago, IL. (graduate; international; poster).
- Pennycook, G., Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2015).** Bullshit proneness: Finding meaning in meaningless statements. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Ottawa, ON. (graduate; national; oral)
- Pennycook, G., Fugelsang, J.A., & Koehler, D.J. (2015).** The dual roles of ideology and rationality in judgments of the ideal and estimated distribution of American wealth. Southern Ontario Behavioral Decision Research Conference, Toronto, ON. (graduate; regional; poster)
- Pennycook, G., Fugelsang, J.A., & Koehler, D.J. (2014).** What makes us think? Conflict detection and cognitive decoupling as sources of analytic engagement. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Toronto, ON. (graduate; national; oral)
- Pennycook, G., Cheyne, J.A., Barr, N., Koehler, D.J. & Fugelsang, J.A. (2013).** Gender differences in analytic cognitive style. Society of Judgment and Decision Making Annual Conference, Toronto, ON. (graduate; international; poster).
- Pennycook, G., Fugelsang, J.A., & Koehler, D.J. (2013).** Dissociating conflict detection and response inhibition as sources of analytic engagement using a rapid-response base-rate task. Psychonomics Society Annual Conference, Toronto, ON. (graduate; national; poster)
- Pennycook, G., Cheyne, J.A., Barr, N., Fugelsang, J.A. & Koehler, D.J. (2013).** Science and Politics in the United States: Why you should be worried. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Calgary, AL. (graduate; national; poster)
- Pennycook, G., Fugelsang, J.A., & Koehler, D.J. (2012).** Conflict detection during a rapid-response base-rate task. Society of Judgment and Decision Making Annual Conference, Minneapolis, MN. (graduate; international; poster).
- Pennycook, G., Cheyne, J.A., Barr, N., Koehler, D.J., & Fugelsang, J.A. (2012).** Dissociations in conflict detection during reasoning: Implications for the science of religious belief. Psychonomics Society Annual Conference, Minneapolis, MN. (graduate; international; poster).
- Pennycook, G., Cheyne, J.A., Seli, P., Fugelsang, J.A. & Koehler, D.J. (2012).** Analytic cognitive style predicts religious and paranormal belief. International Conference on Thinking, London, UK. (graduate; international; poster).
- Pennycook, G., Cheyne, J.A., Seli, P., Fugelsang, J.A. & Koehler, D.J. (2012).** Analytic cognitive style predicts religious belief. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Kingston, ON. (graduate; national; oral).
- Pennycook, G., Cheyne, J.A., Seli, P., Fugelsang, J.A. & Koehler, D.J. (2012).** Cognitive style predicts supernatural belief. Southern Ontario Behavioural Decision Research Conference, Waterloo, ON. (graduate; national; poster).

- Pennycook, G.**, Cheyne, J.A., Seli, P., Fugelsang, J.A. & Koehler, D.J. (2011). Rationality and religion: Reasoning style predicts religiosity. Society of Judgment and Decision Making Annual Conference, Seattle, WA. (graduate; international; poster). [winner of “best student poster” award]
- Pennycook, G.**, Thompson, V.A., Trippas, D. & Handley, S. (2011). Base rate probabilities are (sometimes) accessible to intuitive processes. Psychonomics Society Annual Conference, Seattle WA. (graduate; international; poster).
- Pennycook, G.**, Fugelsang, J.A. & Koehler, D.J. (2011). Conflict detection in dual-process theory: Are we good at detecting when we are biased? Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Winnipeg, MB. (graduate; national; poster).
- Pennycook, G.**, Fugelsang, J.A. & Koehler, D.J. (2011). Conflict detection in dual-process theory: Are we good at detecting when we are biased? Southern Ontario Behavioral Decision Research Conference, Toronto, ON. (graduate; national; poster).
- Pennycook, G.** & Thompson, V.A. (2010). Base rate neglect: Now you see it, now you don’t. Canadian Society for Brain, Behaviour and Cognitive Science Annual Conference, Halifax, NS. (undergraduate; national; poster).
- Pennycook, G.** & Thompson, V.A. (2010). When are base rates neglected? Banff Annual Seminar in Cognitive Sciences, Banff, AB. (undergraduate; national; poster).

AWARDS/HONOURS

Canadian Society for Brain, Behaviour, and Cognitive Science “Vincent Di Lollo Early Career Award”	2020
Behavioral Science & Policy Association’s “New Investigator” award (finalist)	2019
Poynter Institute’s International Fact-Checking Network “Researcher of the Year”	2017
Governor General’s Gold Medal	2017
University of Waterloo Alumni Gold Medal	2016
Ig Nobel Peace Prize	2016
Natural Science Engineering Research Council of Canada - Alexander Graham Bell Canada Graduate Scholarship, Doctoral (\$105,000)	2012 - 2016
Doctoral Thesis Completion Award (\$5,000)	2016
Ontario Graduate Scholarship (\$15,000) (declined)	2012 - 2013
University of Waterloo - President’s Graduate Scholarship (\$50,000)	2011 - 2016
Natural Science Engineering Research Council of Canada - Canada Graduate Scholarship, Master’s (\$17,500)	2011 - 2012
Society for Judgment and Decision Making Best Student Poster Award (\$250)	2011
University of Waterloo Scholarship (\$10,000)	2010 - 2011
Canadian Psychological Association Honours Thesis Award	2009
Natural Science Engineering Research Council of Canada - Undergraduate Summer Research Award (\$4,500)	2009
The Walter and Ruth Leverton Award (\$3,000)	2008
Natural Science Engineering Research Council of Canada - Undergraduate Summer Research Award (\$4,500)	2008
University of Saskatchewan Dean’s List	2005 - 2009

ACADEMIC AND RESEARCH EXPERIENCE

Lecturer – Research Methods in Management (GBUS/MBA 838 – Levene Graduate School of Business, University of Regina)	2019 – present
Lecturer – Introduction to Organizational Behaviour (BUS 260 – Hill School of Business, University of Regina)	2018 – present
Lecturer – Behavioral Economics II – Tests and Applications (MGT 855 – Yale University School of Management) (co-taught with Shane Frederick)	2017
Teaching Assistant – Research in Cognition and Perception (Psych 394 - University of Waterloo)	2016
Teaching Assistant – Advanced Analysis of Variance (Psych 630 - University of Waterloo)	2015
Lecturer – Research in Cognition (Psych 394 - University of Waterloo)	2014
Teaching Assistant – History of Psychology (Psych 380- University of Waterloo)	2013
Teaching Assistant – Advanced Analysis of Variance (Psych 630 - University of Waterloo)	2013
Teaching Assistant – The Psychology of Reading (Psych 308 - University of Waterloo)	2012
Teaching Assistant – Advanced Analysis of Variance (Psych 630 - University of Waterloo)	2012
Teaching Assistant – Introductory Psychology (Psych 101 - University of Waterloo)	2011
Teaching Assistant – Research in Cognition and Perception (Psych 394 - University of Waterloo)	2011
Teaching Assistant – Basic Data Analysis (Psych 292 - University of Waterloo)	2011
Teaching Assistant – Advanced Data Analysis (Psych 391 - University of Waterloo)	2010
Lab Administrator (Dr. Valerie Thompson & Dr. Jamie Campbell - University of Saskatchewan)	2009 - 2010
Participant Pool Administrator (University of Saskatchewan)	2009 - 2010
Research Assistant (Dr. Valerie Thompson & Dr. Jamie Campbell - University of Saskatchewan)	2008 - 2009

PROFESSIONAL SERVICE

Levene Graduate School of Business Graduate Program Committee	2019 - present
Hill School of Business Teaching Committee	2018 - 2019
Graduate Student Rep. for the Arts Faculty Committee on Student Appeals	2013 - 2014
Organizer for University of Waterloo Cognitive Division Seminar	2012 - 2014
Graduate Student Rep. for the Arts Faculty Council	2012 - 2014
Graduate Student Rep. for the Arts Faculty Council Executive	2012 - 2013
Graduate Student Rep. for the Strategic Planning Working Group on Teaching	2012 - 2013

REVIEWER

I am a member of the editorial board for *Thinking & Reasoning* and a consulting editor for *Judgment and Decision Making*. I have served as an ad hoc reviewer at the following outlets:

Acta Psychologica / Advances in Cognitive Psychology / American Journal of Political Science / American Political Science Review / Applied Cognitive Psychology / Applied Psychology: Health and Well-Being / Basic and Applied Social Psychology / Behavior Research Methods / Canadian Journal of Experimental Psychology / Consciousness and Cognition / Cognition / Cognitive Development / Cognitive Psychology / Cognitive Research: Principles and Implications / Current Directions in Psychological Science / Emotion / European Journal of Social Psychology / Frontiers in Psychology / Experimental Psychology / Harvard Kennedy School Misinformation Review / Intelligence / International Journal for the Psychology of Religion / Journalism Studies / Journal for the Scientific Study of Religion / Journal of Behavioral Decision Making / Journal of Applied Research in Memory and Cognition / Journal of Cognitive Psychology / Journal of Environmental Psychology / Journal of Experimental Psychology: Applied / Journal of Experimental Psychology: Learning, Memory, and Cognition / Journal of Experimental Psychology: General / Journal of Experimental Social Psychology / Journal of Individual Differences / Journal of Personality / Journal of Personality and Social Psychology / Journal of Religion and Health / Judgment and Decision Making / Learning & Instruction / Memory & Cognition / Mind & Society / Nature Communications / Neuroscience Letters / Neuropsychologica / Oxford Studies in Experimental Philosophy / Personality and Individual Differences / Personality and Social Psychology Bulletin / Perspectives on Psychological Science / PLOS One / Philosophical Psychology / Political Communication / Proceedings of the National Academy of Science / Psychology of Religion and Spirituality / Psychological Science / Psychological Science in the Public Interest / Psychonomic Bulletin & Review / Quarterly Journal of Experimental Psychology / Religion, Brain & Behavior / Review of General Psychology / Review of Philosophy and Psychology / Royal Society Open Science / Social Psychology / Social Psychological and Personality Science / Social and Personality Psychology Compass / Thinking & Reasoning

National Science Foundation (US) / National Science Centre (Poland) / Natural Sciences and Engineering Research Council of Canada

Reviewed papers by year: 2012 (3), 2013 (13), 2014 (16), 2015 (27), 2016 (33), 2017 (43), 2018 (47), 2019 (34)

PROFESSIONAL ASSOCIATIONS

Canadian Society for Brain, Behaviour, and Cognitive Science / Society for Judgment and Decision Making / Society for Personality and Social Psychology

MASTER THESES SUPERVISED

Christie Newton - ongoing 2019 - 2021

HONOURS THESES SUPERVISED

Eddy Kirk - *Illusion of Explanatory Depth and its (lack of) Influence on the Propensity to Share Fake News* (University of Regina) 2019 - 2020

Sydney Brogden - *Are we more receptive to bullshit when it comes from a source we trust?* (University of Regina) 2019 - 2020

Damla Ozdalga - *Fake news and social signaling: Does the number of likes and shares influence engagement with inaccurate news articles?* (Yale University) 2017 - 2018

Ryan Van Camp – *Mental construal and analogical reasoning: Construal effects on analogical word task completion* (University of Waterloo) 2015 - 2016

Lee Follis – *The effect of thinking style on worldview* (University of Waterloo) 2014 - 2015

Rowan Francois – <i>Creativity and metacognition: The inner workings of creativity</i> (University of Waterloo)	2014 - 2015
Jonathan Simard – <i>Arousal and emotion in moral judgment</i> (University of Waterloo)	2014 - 2015
Sandy Vuong – <i>Conflict detection during reasoning: An ERP study</i> (University of Waterloo)	2013 - 2014
Dainis Kalnins – <i>Thinking style and tolerance for ambiguity</i> (University of Waterloo)	2012 - 2013
Viola Halder – <i>Proportion congruency affects conflict detection and response inhibition in a base-rate task</i> (University of Waterloo)	2012 - 2013
Jason Van Amelsvoort – <i>Math anxiety and decision making: Examining the case of base-rate neglect</i> (University of Waterloo)	2011 - 2012

Last updated

2020-08-12