

CURRICULUM VITAE

Nicole M. Krause (Nicky)

Communication Researcher

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EDUCATION

2017 - 2023	Ph.D., Mass Communication, Life Sciences Communication (LSC), minors in Political Science & Educational Psychology - Quantitative Methods, University of Wisconsin – Madison (UW). <i>Dissertation title</i> : “How anti-science discourse limits research and action on science polarization”
2013 - 2016	M.A., Communication, University of Illinois – Chicago (UIC). <i>Thesis title</i> : “Exploring locavores’ perceptions of place and mobility”
2009 - 2010	B.A., English, concentration in Media, Rhetoric, and Cultural Studies (UIC) with honors, high distinction in the English department, <i>summa cum laude</i> . <i>Honors thesis title</i> : “Wayward women as colonial commentary in the novels of Defoe and Pittis”
2006 - 2007	(<i>transferred</i>) Media Arts & Animation, Illinois Institute of Art – Chicago

AWARDS

2020	Henry Steenbock Scholarship, UW
2018, 2019, 2020	Nellie McCannon Life Sciences Communication Scholarship, UW
2017	Maurice & Grace White Life Sciences Communication Scholarship, UW
2014	NCA Membership Award for an Outstanding Master’s Student, UIC
2010	Silver Award for an Outstanding Undergraduate Student, UIC

PEER-REVIEWED ARTICLES

Krause, N. M., Scheufele, D. A., Brossard, D., & Kaplan, D. (revise & resubmit). One-sided science polarization research using social identity theory can be noisy and misleading. *Science Communication*.

Villanueva, I. I., Eom, D., Cate, A. R., **Krause, N. M.**, Scheufele, D. A., & Brossard, D. (under revised review). Emerging debates about breakthrough science: Understanding the interplay of values and cognition in shaping attitudes on human brain organoids. *Science Communication*.

Krause, N. M., Freiling, I., & Scheufele, D. A. (forthcoming). Changing information ecologies for science. *Proceedings of the National Academy of Sciences*.

Yang, S., **Krause, N. M.**, Bao, L., Calice, M., Newman, T. P., Scheufele, D. A., Xenos, M. A., & Brossard, D. (2023). In AI we trust: The interplay of media use, political ideology, and trust in shaping emerging AI attitudes. *Journalism & Mass Communication Quarterly*.

Alexander, S., Calice, M. N., Scheufele, D. A., Brossard, D., **Krause, N.**, Wright, D. B., & Block, P. (2023). The impact of extreme precipitation events and their variability on climate change beliefs in the American public. *Weather, Climate, and Society*.

Freiling, I., **Krause, N. M.**, & Scheufele, D. A. (2023). Science and ethics of “curing” misinformation. *American Medical Association Journal of Ethics*, 25(3), 228-237.

Krause, N. M., Beets, B., Howell, E. L., Tosteson, H., & Scheufele, D.A. (2023). Collateral damage from debunking mRNA vaccine misinformation. *Vaccine*, 41(4), 922-929.

Krause, N. M. (2023). Placing “trust” in science: The urban-rural divide and Americans’ feelings of warmth toward scientists. *Public Understanding of Science*, 32(5), 596-604.

*Freiling, I., **Krause, N. M.**, Scheufele, D. A., & Brossard, D. (2023). Believing and sharing misinformation, fact-checks, and accurate information on social media: The role of anxiety during COVID-19. *New Media & Society*, 25(1), 141-162. ***This paper appears in Web of Science as a Top 1% Highly Cited Paper in Social Sciences.**

Krause, N. M., Freiling, I., & Scheufele, D. A. (2022). The “infodemic” infodemic: Toward a more nuanced understanding of truth claims and the need for (not) combatting misinformation. *The ANNALS of the American Academy of Political and Social Science*, 700(1), 112-123.

Bao, L., **Krause, N. M.**, Calice, M. N., Scheufele, D. A., Wirz, C. D., Brossard, D., Newman, T. P., & Xenos, M. A. (2022). Whose AI? How different publics think about AI and its social impacts. *Computers in Human Behavior*, 130(107182).

Freiling, I., **Krause, N. M.**, Chen, K., & Scheufele, D. A. (2021). The science of open (communication) science: Toward an evidence-driven understanding of quality criteria in communication research. *Journal of Communication*, 71(5), 686-714.

Scheufele, D. A., **Krause, N. M.**, Freiling, I., & Brossard, D. (2021). What we know about effective public engagement on CRISPR and beyond. *Proceedings of the National Academy of Sciences*, 118(22).

*Scheufele, D. A. & **Krause, N. M.** (2019). Science audiences, misinformation, and fake news. *Proceedings of the National Academy of Sciences*, 116(16), 7662-7669. ***This paper appears in Web of Science as a Top 1% Highly Cited Paper in Social Sciences.**

Krause, N. M., Brossard, D., Scheufele, D. A., Xenos, M. A., & Franke, K. (2019). The Polls—Trends: Americans’ Trust in Science and Scientists. *Public Opinion Quarterly*, 83(4), 817-836.

PEER-REVIEWED BOOK CHAPTERS

Krause, N. M., Wirz, C. D., Scheufele, D. A., & Xenos, M. (2019). Fake news: A new obsession with an old phenomenon? In J. Katz (Ed.), *Journalism and Truth in an Age of Social Media*. Oxford University Press.

EDITOR-REVIEWED ARTICLES

Scheufele, D. A., **Krause, N. M.**, & Freiling, I. (2021). Misinformed about the “infodemic?” Science’s ongoing struggle with misinformation. *Journal of Applied Research in Memory and Cognition*, 10(4), 522-526.

Krause, N. M., Scheufele, D. A., Freiling, I., & Brossard, D. (2021). The trust fallacy: Scientists’ search for public pathologies is unhealthy, unhelpful, and ultimately unscientific. *American Scientist*, 109(4), 226-231.

Krause, N. M., Freiling, I., Beets, B., & Brossard, D. (2020). Fact-checking as risk communication: The multi-layered risk of misinformation in times of COVID-19. *Journal of Risk Research*, 23(7-8), 1052-1059. **This paper appears in Web of Science as a Top 1% Highly Cited Paper in Social Sciences.**

Scheufele, D. A., **Krause, N. M.,** Freiling, I., & Brossard, D. (2020). How not to lose the COVID-19 communication war. *Issues in Science and Technology*. <https://issues.org/covid-19-communication-war/>.

OTHER WRITING

Howell, E. L., **Krause, N. M.,** Cheney, I., Kirschner, E., & Goodwin, S. (2024). An evolving need for trusted information [Forum]. *Issues in Science and Technology*, 40(2).

INVITED PRESENTATIONS (CONFERENCES, SEMINARS, WORKSHOPS)

Krause, N. M. (2024, July). *Considering uncertainty in science communication: Does uncertainty exacerbate mistrust and misinformation?* In A. Bunker & B. Boesch, *Project HUMBLE Workshop on Scientific Uncertainty* [Symposium & Workshop]. Morningside University, United States.

Krause, N. M. (2024, April). *Trust and truth: Examining key challenges for science communication in times of uncertainty and social conflict.* [Seminar]. California Council on Science and Technology (CCST) Science Fellows Seminar Series. Virtual.

Krause, N. M. (2023, April). *Looking beyond public pathologies in research and action on misinformation.* In D. Brown & M. Engevik. *Combating science misinformation* [Symposium]. American Physiology Summit, Long Beach, California, United States.

Krause, N. M. (2023, April). *Uncertainty, misinformation, and trust in science.* In A. Bunker & B. Boesch, *Incorporating scientific uncertainty in physiology education* [Symposium & Workshop]. American Physiology Summit, Long Beach, California, United States.

Krause, N. M. (2022, October). *Science polarization, misinformation, and trust in science.* In H. Thorp, “What Engenders Trust in Science?” [Symposium]. 2022 AAAS Forum on Science and Technology Policy. Washington, DC, United States.

Krause, N. M. (2022, June). *Mistrust, misinformation, or myopia? How an emphasis on correcting public pathologies limits our understanding of science communication challenges.* Presentation for the STEM Comm Summer Colloquium, Texas Tech University, Lubbock, Texas, United States.

DiChristina-Gerosa, M., **Krause, N. M.,** Levine, A. S., Montojo, C., & Sheats, J. (2022, June). *Building a culture of civic science: The Civic Science Fellows program* [Panel Discussion]. Reimagining Science Communication in the COVID Era and Beyond: The 5th National Academies Science Communication Colloquium, Irvine, California, United States.

Krause, N. M. (2021, November). *Avoiding the trust fallacy: A reminder to tread carefully as we discuss “trust in science.”* In P. Garev, *Facing up to the Infodemic: Promoting a Fact-Based Public Discourse in the Digital Age* [Symposium]. Science & You, Metz, France.

Krause, N. M. (2020, June). *How we make (ourselves) believe: Psychological factors linked to belief in (mis)information about science.* In B. Dutrow & T. Parkhill, *Teaching and Communicating Science in the Age of Social Media* [Symposium]. Goldschmidt 2020, Virtual.

Krause, N. M. (2019, November). *Individual-level influences on the acceptance (or not) of scientific truth-claims*. In P. Garev, *Fostering Democratic Resilience in the Digital Age: International Experts' Workshop* [Symposium], Tel Aviv, Israel.

CONFERENCE PRESENTATIONS

Krause, N. M., Scheufele, D. A., Brossard, D., & Kaplan, D. (2024, August). One-sided science polarization research using social identity theory can be noisy and misleading [Conference presentation]. Annual conference of the Association for Education in Journalism and Mass Communication (AEJMC), Philadelphia, Pennsylvania, United States.

Villanueva, I. I., Eom, D., Cate, A. R., **Krause, N. M.**, Scheufele, D. A., & Brossard, D. (2024, August). The interplay of deference, ideology, and risk/benefit perceptions in shaping support for human brain organoids [Conference presentation]. Annual conference of the Association for Education in Journalism and Mass Communication (AEJMC), Philadelphia, Pennsylvania, United States. ***This paper won 1st place Top Paper in the Communicating Science, Health, Environment, and Risk (ComSHER) division of AEJMC.**

Krause, N. M. (2023, May). *Trust in science—How poll trends can lend much-needed nuance to the crisis narrative*. In J. Schuldt, “*Spotlight on Trends: New Opportunities and Methodological Considerations for Analyzing Survey Data over Time*” [Symposium]. The 78th Annual AAPOR Conference, Philadelphia, Pennsylvania, United States.

Alexander, S., Calice, M., Scheufele, D. A., Brossard, D., **Krause N. M.**, Wright, D. B., & Block, P. (2022, December). The impact of extreme precipitation events and their variability on climate change beliefs. [Conference presentation]. Annual conference of the Society for Risk Analysis (SRA), Tampa, Florida, United States.

Krause, N. M., Howell, E. L., Beets, B., Tosteson, H., & Scheufele, D. A. (2022, August). Debunking misinformation to fight the COVID-19 infodemic can do collateral damage to other science attitudes. [Conference presentation]. Annual conference of the Association for Education in Journalism and Mass Communication (AEJMC), Detroit, Michigan, United States.

Yang, S., **Krause, N. M.**, Bao, L., Calice, M., Newman, T. P., Scheufele, D. A., Xenos, M. A., & Brossard, D. (2022, May). In AI we trust: The interplay of media use, political ideology, and trust in shaping emerging AI attitudes [Poster presentation]. 72nd Annual International Communication Association (ICA) Conference, Paris, France.

Krause, N. M., Freiling, I., Scheufele, D. A. (2022, May). The ‘infodemic’ infodemic: Toward a more nuanced understanding of truth-claims and (not) combatting misinformation. [Conference presentation]. 72nd Annual International Communication Association (ICA) Conference, Paris, France.

Krause, N. M., Yang, S., Bao, L., Calice, M., Newman, T. P., Brossard, D. (2021, November). *The interplay of trust and political ideology in shaping emerging AI attitudes*. [Conference presentation]. Science & You 2021, Metz, France.

Bao, L., **Krause, N. M.**, Calice, M. N., Wirz, C. D., Scheufele, D. A., Brossard, D., Newman, T. P., & Xenos, M. A. (2021, August). *Communicating AI: Segmenting audiences on risk and benefit perceptions*. [Conference presentation]. Annual conference of the Association for Education in Journalism and Mass Communication (AEJMC), Virtual.

Freiling, I., **Krause, N. M.**, Chen, K., & Scheufele, D. A. (2021, August). *Science of open (communication) science: Toward an evidence-driven understanding of quality criteria in communication research*. [Conference presentation]. Annual conference of the Association for Education in Journalism and Mass Communication (AEJMC), Virtual.

Krause, N. M., Howell, E. L., Xenos, M. A., Scheufele, D. A., & Brossard, D. (2021, May). *Enabling decision-relevant debates about human genome editing*. [Conference presentation]. Public Communication of Science and Technology (PCST+1) conference, Virtual.

Freiling, I., **Krause, N. M.**, Scheufele, D. A., & Brossard, D. (2021, May). *Believing and sharing misinformation, fact-checks, and accurate information on social media: Anxiety during COVID-19*. [Conference presentation]. Annual conference of the International Communication Association (ICA), Virtual.

Freiling, I., **Krause, N. M.**, Scheufele, D. A., & Brossard, D. (2021, April). *Anxiety fueling belief in and sharing of true, false, and corrected information on social media during COVID-19*. [Conference presentation]. DACH21: Three-Country Conference on Communication Science, Virtual.

Krause, N. M., Calice, M. (2020, December). *Troubled waters: Group conflict in depictions and perceptions of nutrient contamination in Wisconsin*. [Conference presentation]. Annual conference of the Society for Risk Analysis (SRA), Virtual.

***Krause, N. M.** (2020, August). *The urban-rural divide and Americans' trust in scientists*. [Conference presentation]. Annual conference of the Association for Education in Journalism and Mass Communication (AEJMC), Virtual. ***This paper won 3rd place Top Student Paper in the Communicating Science, Health, Environment, and Risk (ComSHER) division of AEJMC.**

Krause, N. M., Brossard, D., Scheufele, D. A., Xenos, M., Franke, K. (2018, June). *Poll trends: Americans' trust in science and scientists*. In K. Hunt (Chair) Politics & Policy. [Symposium]. The Sixth Iowa State University Summer Symposium on Science Communication: Understanding the Role of Trust and Credibility in Science Communication, Ames, Iowa, United States.

FELLOWSHIPS

Sep 2021 – Aug 2023	Civic Science Fellowship, supported by the John Templeton Foundation
Jan 2017 – May 2017	University Fellowship, UW, Madison, Wisconsin
Jan 2010 – May 2010	Newberry Library Undergraduate Research Fellow, Newberry Library, Chicago

PROFESSIONAL EXPERIENCE

Inside academia:

Oct 2023 – Jan 2024	Researcher II, LSC, UW
Sep 2017 – Jan 2024	Science, Media & the Public (SciMeP) research group, LSC, UW
Sep 2021 – Sep 2023	Researcher I and Civic Science Fellow, LSC, UW
Aug 2018 – Aug 2021	Project Assistant, National Science Foundation grant, LSC, UW
May 2021 – Aug 2021	Instructor, UW, LSC251, Science, Media, and Society (taught online)
May 2020 – Aug 2020	Instructor, UW, LSC251, Science, Media, and Society (taught online)
Jan 2020 – May 2020	Teaching Assistant, UW, LSC251, Science, Media, and Society
Sep 2017 – Jan 2018	Project Assistant, LSC and Morgridge Institute for Research, UW
Sep 2015 – May 2016	Project Associate, the Freshwater Lab (FWL), UIC
Sep 2015 – Dec 2015	Teaching Assistant, UIC, COMM200, Communication Technologies

Apr 2015 – Dec 2015	Graduate Assistant, School of Public Health, Environmental & Occupational Health Sciences Division, UIC
Aug 2014 – Aug 2015	Project Assistant, Institute for the Humanities, UIC
Jan 2014 – May 2014	Research Assistant, College of Business Administration, UIC, Collaborative Communication & Information Technologies (CCIT) Research Group
Jan 2014 – May 2014	Teaching Assistant, UIC, COMM102, Interpersonal Communication; COMM103, Introduction to Media
Aug 2013 – Dec 2013	Research Assistant, College of Business Administration, UIC, CCIT Research Group
Aug 2013 – Dec 2013	Teaching Assistant, UIC, COMM102, Interpersonal Communication

Outside academia:

July 2016 – July 2017	Innovation Specialist (User Experience Researcher / Designer), 18F, General Services Administration (GSA), United States federal government
Jan. 2013 – Aug 2015	Associate User Experience Designer, GA Communication Group, Chicago, IL (healthcare advertising)
Jan 2011 – Dec 2012	Application Manager, Epic Systems, Verona, WI (healthcare software)
Sep 2010 – Dec 2010	Project Coordinator, Tribune Interactive, Tribune Company, Chicago, IL
July 2007 – July 2009	Project Coordinator, Kinect, of Corbett Accel Healthcare Group, Chicago, IL (healthcare advertising)

CONSULTING

Fall 2022 - present	The Science Communication Lab/Wonder Collaborative
Spring 2020	John Templeton Foundation
Fall 2019	Chan-Zuckerberg Initiative

TEACHING

As primary instructor: LSC251 – Science, Media, and Society, taught twice at UW (online summer course)
As teaching assistant: LSC251– Science, Media, and Society, taught at UW (in-person); COMM200 – Communication Technologies, taught at UIC (hybrid; in-person & online); COMM103 – Introduction to Media, taught at UIC (in-person); COMM102 – Interpersonal Communication, taught at UIC (in-person)

SERVICE

Member of Graduate Student Committee organized by the Communicating Science, Health, Environment, and Risk (ComSHER) division of AEJMC. (2020 – 2022).

Graduate student representative on faculty search committee for the department of Life Sciences Communication at UW-Madison. (2019).

Ad-hoc review for the following journals: American Journal of Political Science; American Psychologist; Big Data & Society; Chinese Journal of Communication, Information, Communication, & Society; Communications Psychology; Communication Theory; International Journal of Communication; International Journal of Press and Politics; Journal of Applied Social Psychology; Journal of Experimental Social Psychology; Journalism and Media; Journalism & Mass Communication Quarterly; Journal of Risk Research; Journal of Science Communication; Minerva; Nature Human Behaviour; New Media & Society; Perspectives on Psychological Science; PLOS Climate; PLOS ONE; Proceedings of the National Academy of Sciences (PNAS); PNAS Nexus; Political Behavior; Public Understanding of Science; Risk Analysis; Science and Public Policy; Science Communication; Scientific Reports; Weather, Climate, and Society

Reviewer and/or session moderator: Association for Education in Journalism and Mass Communication (AEJMC) Conference, Political Communication and ComSHER divisions; International Communication Association (ICA) Conference, Political Communication division.

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

Public Communication of Science and Technology (PCST); Association for Education in Journalism and Mass Communication (AEJMC); Society for Risk Analysis (SRA); International Communication Association (ICA)

GUEST LECTURING / SPEAKING

2024 – Spring EVP529: Environmental Science Communication, George Mason University.
2024 – Spring LSC375: Culturally Responsive Science Communication, UW-Madison.
2023 – Spring LSC375: Culturally Responsive Science Communication, UW-Madison.
2022 – Summer LSC251: Science, Media, and Society, UW-Madison.
2021 – Science Communication Journal Club: La ciencia de la desinformación, FECYT Ciencia (Spain).
2021 – Fall ANTHS018: Scientific Thinking and Reasoning, Yale University.
2021 – Summer ANTHS018: Scientific Thinking and Reasoning, Yale University.

MEDIA MENTIONS AND APPEARANCES

2023 *Darts and Letters*, CitedMedia podcast
2023 *Dallas Morning News*
2022 “*Science of misinformation*,” PNAS Science Sessions podcast.
2022 “*Disinformation talks*,” Israeli Public Policy Institute (IPPI) & Heinrich Böll Foundation
2022 *Minneapolis-St. Paul Magazine*
2021 *The Pulse*, an NPR/PBS podcast for WHYY, Philadelphia
2020 *GROW* (UW-Madison’s magazine for the life sciences)
2019 *Media Matters for America*