CHENYAN JIA

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Academic Employment

Assistant Professor of Journalism and Computer Science, Northeastern University, 2023–

- College of Arts, Media, and Design (CAMD) & Khoury College of Computer Sciences

Postdoctoral Fellow, Stanford University, 2022–2023

- Co-advised by Professor Jeff Hancock and Professor Michael Bernstein.
- Affiliated with Program on Democracy and the Internet (Stanford PDI), Stanford Social Media Lab, and Stanford Human-Computer Interaction Group.
- Funded by Stanford PDI (PI: Professor Nathaniel Persily) and Stanford Institute for Human-Centered Artificial Intelligence (Stanford HAI).

Research Associate, The University of Texas at Austin, 2020–now

- Human–AI Interaction Lab directed by Professor Min Kyung Lee.
- Center for Media Engagement (CME) directed by Professor Natalie Stroud.

Education

Ph.D. in Journalism and Media, The University of Texas at Austin, 2018–2022

M.A. in Communication, Peking University, 2016–2018

B.A. in Communication, Huazhong University of Science and Technology, 2012–2016

B.A. in English (Dual Degree), Wuhan University, 2012–2016

Research Interests

My research interests lie at the intersection of communication and human-computer interaction. My work has examined (a) the influence of emerging media technologies on people's attitudes and

behaviors; (b) how to design human-centered AI and how to align AI with human values; (c) how to mitigate the spread of misinformation.

Publications

My work generally appears in mass communication journals and top-tier AI and HCI venues.

Peer Reviewed Journal and Conference Publications

1. **Jia, C.,** Lam, M. S., Mai, M. C., Hancock, J. T. Bernstein, M. S. (2024). Embedding Democratic Values into Social Media AIs via Societal Objective Functions. *Proceedings of the ACM: Human Computer Interaction Journal (CSCW 2024)*. 8, CSCW1, Article 163.

2. **Jia, C.,** & Lee, T. (2024). Journalistic Professionalism Matters: Understanding How Americans Perceive Fact-Checking Labels. *Harvard Kennedy School (HKS) Misinformation Review.*

3. Liu, R., Yang, R., **Jia, C.,** Zhang, G., Yang, D., & Vosoughi, S. (2024). Training Socially Aligned Language Models in Simulated Human Society. *Proceedings of the International Conference on Learning Representations (**ICLR 2024**).*

4. **Jia, C.,** Riedl, J. M., Woolley, S. (2024). Promises and perils of automated journalism: algorithms, experimentation, and 'teachers of machines' in China and the United States. *Journalism Studies*. https://doi.org/10.1080/1461670X.2023.2289881

5. Bernstein, M. S.**,** Christin, A., Hancock, J. T., Hashimoto, T., **Jia, C.,** Lam, M. S., Meister, N., Persily, N., Piccardi, T., Saveski, M., Tsai, J. L., Ugander, J., Xu, C. (2023). Embedding Societal Values into Social Media Algorithms. *Journal of Online Trust and Safety***.**

6. Lee, T., Johnson, T., **Jia, C.**, & Lacasa, I. (2023). How social media users become misinformed: The roles of news-finds-me perception and misinformation exposure in COVID-19 misperception. *New Media and Society***.**

7. Shiroma, K., Zimmerman, T., Xie, B., Fleischmann, K.R., Rich, K., Lee, M.K., Verma, N., & **Jia, C.** (2023). Older adults' trust and distrust in COVID-19 public health information: A qualitative critical incident study. *JMIR Aging***.** http://dx.doi.org/10.2196/42517

8. Zimmerman, T., Shiroma, K., Fleischmann, K.R., Xie, B., Verma, N., **Jia, C.,** and Lee, M.K. (2023). Misinformation and COVID-19 vaccine hesitancy. *Vaccine. 41*(1):136-144.

9. **Jia, C.,** Boltz, A., Zhang, A., Chen, A., & Lee, M. K. (2022). Understanding effects of algorithmic vs. community label on perceived accuracy of hyper-partisan misinformation. *Proceedings of the ACM: Human Computer Interaction Journal (CSCW 2022).*

10. Koo, H. G., Johnson, T., Lee, T., & **Jia, C.** (2022). Politically contested beliefs: Support for Trump better predicts having inaccurate beliefs about COVID-19 than being Conservative. ***Mass Communication and Society.***

11. Liu, R., **Jia, C.,** Zhang, G., Zhuang, Z., Liu, T., Vosoughi, S. (2022). Second thoughts are best: Learning to re-align with human values from text edits. *Thirty-sixth Conference on Neural Information Processing Systems (**NeurIPS 2022**).*

12. Liu, R., Gao, C., **Jia, C.,** Xu, G., & Vosoughi, S. (2022). Non-parallel text style transfer with self-parallel supervision. *Proceedings of the Tenth International Conference on Learning Representations (**ICLR 2022**).*

13. Liu, R., **Jia, C**., Wei, J., Xu, G., & Vosoughi, S. (2022). Quantifying and alleviating political bias in language models. ***The Journal of Artificial Intelligence (AIJ).***

14. Verma, N., Fleischmann, K. R., Zhou, L., Xie, B., Lee, M. K., Rich, K., Shiroma, K., **Jia, C.,** & Zimmerman, T. (2022). Trust in COVID-19 public health information. ***Journal of the Association for Information Science and Technology***, 1–17.

15. **Jia, C.,** & Liu, R. (2021). Algorithmic or human source? Examining relative hostile media effect with a transformer-based framework. ***Media and Communication***. *9*(4), 170 – 181.

16. **Jia, C.,** & Johnson, T. (2021). Source credibility matters: Does automated journalism inspire selective exposure? ***International Journal of Communication***. *15*(2021), 3760 – 3781.

17. Liu, R., Wei, J., **Jia, C.**, & Vosoughi, S. (2021). Modulating language models with emotions. *Proceedings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (**ACL-IJCNLP 2021**).*

18. Liu, R., **Jia, C**., Wei, J., Xu, G., Wang, L., & Vosoughi, S. (2021). Mitigating political bias in language models through reinforced calibration. *Proceedings of the Thirty–Fifth AAAI Conference on Artificial Intelligence (**AAAI 2021**).* ***<u>Best Paper Award</u>* (3 out of 9071 submissions) (Special Track on AI for Social Impact)**

19. Liu, R., **Jia, C.,** & Vosoughi, S. (2021). A transformer–based framework for flipping political polarity of news articles. *Proceedings of the ACM:* ***Human Computer Interaction Journal (CSCW 2021), Vol 5.***

20. Liu, R., Wang, L., **Jia, C.,** & Vosoughi, S. (2021). Political depolarization of news articles using attribute–aware word embeddings. *Proceedings of the 15th International AAAI Conference on Web and Social Media* ***(ICWSM 2021).***

21. **Jia, C.** (2020). Chinese automated news: A comparison between expectations and perceived quality. ***International Journal of Communication.*** *14*(2020), 2611–2632.

22. **Jia, C.,** & Gwizdka, J. (2020). An eye–tracking study of differences in reading between automated news and human–written news. ***Information Systems and Neuroscience.*** vol 43, 100–110. Springer.

23. Liu, R., Xu, G., **Jia, C.,** Ma, W., Wang, L., & Vosoughi, S. (2020). Data Boost: Text data augmentation through reinforcement learning guided conditional generation. *Proceedings of 2020 Conference on Empirical Methods in Natural Language Processing* ***(EMNLP 2020).*** 9031–9041.

Workshop Papers

24. **Jia, C.,** Zhang, A., Boltz, A., Chen, A., & Lee, M. K. (2022). Algorithmic vs. Community Label Interventions on Perceived Accuracy of Hyper-partisan Misinformation. *Workshop Proceedings of the International AAAI Conference on Web and Social Media (ICWSM 2022):* ***Mediate 2022 ICWSM workshop.***

Book Chapter

25. Lee, T., & **Jia, C.** (2023). Curse or Cure? The Role of Algorithm in Promoting or Countering Information Disorder. *Information Disorder*, 29-45. Routledge.

Under Review

26. **Jia, C.,** Zhang, A., Boltz, A., Chen, A., & Lee, M. K. (Under R&R). When algorithmic vs. community labels err: Understanding costs of different types of errors on people's future intention to use misinformation labels. ***Human-Computer Interaction Journal.***

27. **Jia, C.,** Lee, A. Y., Moore, R. C., Decatur, C. H., Liu, S. X., Hancock, J. T. (Under R&R). Three Heads are Better than One: Group Discussion Improves Misinformation Detection. ***PNAS (The Proceedings of the National Academy of Sciences) Nexus***.

28. **Jia, C.** (Under R&R). Effects of issue involvement and algorithmic literacy on individuals' perceptions of news recommended by algorithms: A machine heuristic and systematic processing model. ***Computers in Human Behavior***.

29. **Jia, C.,** Lee, M. K., Xie, B., Fleischmann, K. R., Zimmerman, T., Shiroma, K., & Verma, N. (Under R&R). Effects of statistical framing on older and younger Americans' willingness to receive Covid-19 vaccines. ***Health Communication***.

30. Christin, A., Bernstein, M., Hancock, J., **Jia, C.,** Mado, M., Tsai, J., & Xu, C. (Under R&R). Social media platforms as evaluation machines. ***Social Media and Society***.

Conference Papers

Peer Reviewed Conference Papers

1. **Jia, C.,** Lee, A. Y., Moore, R. C., Decatur, C. H., Qiu, T., Liu, S. X., Hancock, J. T. (2024). Group Discussion Improves Detection of Misinformation on Social Media. Communication & Technology Division. 74th Annual International Communication Association Conference, Reclaiming Authenticity in Communication (ICA 2024), June 20-24, 2023, Gold Coast, Australia.

2. **Jia, C.,** Li, J., Liu, S. X., Tang, L., Bagdasarian, T., Baird, C., Vaughan, C., Hancock, J. T. (2024). Averse Towards AI or Human? A Meta-Analysis of Impacts of Task Objectivity and Agent Characteristics on Algorithm Appreciation and Aversion. Human-Machine Communication Division. 74th Annual International Communication Association Conference, Reclaiming Authenticity in Communication (ICA 2024), June 20-24, 2023, Gold Coast, Australia.

3. **Jia, C.,** Lu, Y., Kim, S. (2024). Nudging Emotions via AI: Examining the Effect of Emotion-Interventions on Reducing Susceptibility to Text and Image Misinformation. Communication & Technology Division. 74th Annual International Communication Association Conference, Reclaiming Authenticity in Communication (ICA 2024), June 20-24, 2023, Gold Coast, Australia. (Panel: Algorithmically Yours: Communicating in the Age of Generative AI)

4. **Jia, C.** (2023). Effects of issue involvement and algorithmic literacy on individuals' perceptions of news recommended by algorithms. Communication & Technology Division. 73rd Annual International Communication Association Conference, Reclaiming Authenticity in Communication (ICA 2023), May 25-29, 2023, Toronto, Ontario, Canada.

5. **Jia, C.** (2023). Understanding effects of machine vs. human heuristics on people's perceptions of political news. Human-Machine Communication Division. 73rd Annual International Communication Association Conference, Reclaiming Authenticity in Communication (ICA 2023), May 25-29, 2023, Toronto, Ontario, Canada.

6. Lee, T., Johnson, T., **Jia, C.**, & Lacasa, I. (2022). How social media users become misinformed: The roles of news-finds-me perception, misinformation exposure, and news self-efficacy in covid-19 misperception. Political Communication Division. The Association for Education in Journalism and Mass Communication (AEJMC 2022). August 3-6, 2022, Detroit, MI, USA.

7. Lu, S., & **Jia, C.** (2022). Mitigating psychological reactance in online content moderation: A communication visibility perspective. The 72nd Annual International Communication Association Conference (ICA 2022). May 26-30, 2022, Paris, France.

8. Koo, H. G., Johnson, T., Lee, T., & **Jia, C.** (2021). Politically contested beliefs: Why do conservatives tend to have more inaccurate beliefs about COVID-19? Mass Communication & Society Division. The Association for Education in Journalism and Mass Communication (AEJMC 2021) Summer's Annual Conference, August 4-7, 2021, Virtual Conference.

9. Chen, W., Straubhaar, J., Skouras, M., Santillana, M., Choi, J., **& Jia, C.** (2021). Gloom or Bloom in the Media Wilderness? Media and Entrepreneurship in Rural and Small Town Texas, International Association for Media and Communication Research (IAMCR 2021), July 11 – 15, 2021, Virtual Conference.

10. **Jia, C.,** Johnson, T., Wallace, R., & Lee, T. (2021). News algorithm appreciation or aversion? Examining media trust and algorithm attitudes. The 71st Annual International Communication Association Conference (ICA 2021), Human-Machine Communication Interest Group, May 27–31, 2021, Virtual Conference.

11. **Jia, C.,** & Liu, R. (2021). Examine relative hostile media effect with a transformer-based framework: A computational method to flip the polarity of news headline and body text. The

71st Annual International Communication Association Conference (ICA 2021), Communication & Technology Division, May 27–31, 2021, Virtual Conference.

12. **Jia, C.,** & Johnson, T. (2020). Source credibility matters: Does automated journalism inspire selective exposure? The 70th Annual International Communication Association Conference (ICA 2020), Communication & Technology Division, May 21–25, 2020, Gold Coast, Australia.

13. **Jia, C.,** & Woolley, S. (2020). Social scaffolding or computational propaganda? A comparative analysis of automated journalism in China and the United States. The 70th Annual International Communication Association Conference (ICA 2020), Political Communication Division. May 21–25, 2020, Gold Coast, Australia.

14. Fleischman, K., Bo, Xie., Lee, M., Verma, N., Shiroma, K., Rich, K., Sagna, A., Davis, N., **Jia, C.,** Zhang, A., Zimmerman, T. (2020). Trust in health information about COVID–19: Age, eHealth literacy, and human values. Lightning Talk. The University of Texas COVID–19 Conference, November 10–11, 2020.

15. Verma, N., Fleischmann, K. R., Zhou, L., Xie, B., Lee, M. K., Rich, K., Shiroma, K., **Jia, C.,** & Zimmerman, T. (2021). Aging, human values, and trust in information about covid-19: A cross-sectional survey study. *Aging and Health Informatics Conference.*

16. Shiroma, K., Zimmerman, T., Xie. B., Fleischman, K., Rich, K., Lee, M. K. Verma, N., **Jia, C.,** (2021). Older adults' trust and distrust in COVID-19 public health information. *Aging and Health Informatics Conference.*

17. **Jia, C.** (2019). Chinese automated news: A comparison between prior expectations and actual perceptions. The Association for Education in Journalism and Mass Communication (AEJMC 2019) Summer's Annual Conference, The Communication Technology Division, August 7–10, Toronto, Canada.

18. **Jia, C.** (2019). Chinese automated news: Readability, expertise and credibility. The Association for Education in Journalism and Mass Communication (AEJMC) Mid–winter Conference, The Communication Technology Division, March 1–2, the University of Oklahoma, Norman, Oklahoma, the United States.

19. **Jia, C.,** Yuan, Y., & Wang, Z. (2017). Readability analysis of Chinese and English automated news. International Communication Association (ICA) International New Media Forum, Panel 2: News Production in the Digital Age, November 11, Shanghai, China. **(Top Paper Award.)**

20. **Jia, C.** (2017). The development pattern of WeChat accounts of printed media in Zhejiang province: based on empirical research on *Urban Express, Qianjiang Evening News*, and *Hangzhou Daily*. International Symposium on Chinese Newspapers, Panel 2A, June 1 –2, Hong Kong, China.

Selected Press

1. **Building a Social Media Algorithm That Actually Promotes Societal Values,** *Stanford Institute for Human-Centered Artificial Intelligence (Stanford HAI)* [link].

2. **Building a Better Social Media Feed: Integrating Democratic Values into AI,** *CloudResearch* [link].

Grants

1. (Submitted for Review) **The U.S. National Science Foundation (NSF) IIS: Human-Centered Computing (HCC) Medium**

   "Encoding a Plurality of Societal Values in Social Media AIs", $1,200,000, # 144516.

   PI: Chenyan Jia (Northeastern), Co-PI: Michael Bernstein (Stanford), Jeff Hancock (Stanford), Martin Saveski (University of Washington).

2. (Submitted for Review) **National Endowment for the Humanities (NEH),**

   "Exploring the Potential for Artificial Intelligence to Help Solve the Local News Crisis", $149,999, # DOC-299603.

   PI: Meg Heckman (Northeastern), **Co-PI: Chenyan Jia** (Northeastern), Matt Carroll (Northeastern)

3. **The Internet Democracy Initiative (IDI) Seed Grant**, Northeastern University

   "AI as a Team Member: Can Human-AI Group Discussion Improve Misinformation Detection?", $5,000.

   PI: Chenyan Jia (Northeastern)

4. **UT Austin Good Systems Graduate Student Misinformation Grant**

   "Designing algorithmic nudge to reduce inadvertent COVID–19 misinformation sharing on social media", $7,000.

Students: Anubrata Das, **Chenyan Jia**, and Shivam Garg (*alphabetical order); Supervisor: Min Kyung Lee, School of Information.

5. **UT Austin Misinformation & AI Good Systems Research Initiative**

Awards and Honors

Harrington Dissertation Fellowship for 2021-2022, The University of Texas at Austin, 2021.

AAAI-21 Outstanding Paper Award: Special Track on AI for Social Impact, The Thirty–Fifth AAAI Conference on Artificial Intelligence (AAAI 2021), 2021. [Press]

University Graduate Continuing Fellowship for 2021-2022, The University of Texas at Austin, 2021.

The *Dallas Morning News* Graduate Fellowship for Journalism Innovation, School of Journalism, Moody College of Communication, The University of Texas at Austin, 2018.

The Maxwell McCombs Graduate Student Award for Research Publishing, Jesse H. Jones Centennial Chair in Communication Emeritus, Moody College of Communication, The University of Texas at Austin, 2022, 2020, 2022.

Will H. Mayes Scholarship, School of Journalism Graduate Scholarship Committee, Moody College of Communication, The University of Texas at Austin, 2020.

Professional Development Awards, The University of Texas at Austin, 2020.

Thomas Thompson Award in Journalism, School of Journalism Graduate Scholarship Committee, Moody College of Communication, The University of Texas at Austin, 2019.

Top Paper Award, The International Communication Association (ICA) International New Media Forum, 2017.

Teaching Experience

Courses

CS 7375 Seminar in Human-Computer Interaction: Computational Social Science, Northeastern University

Instructor, Khoury College of Computer Sciences, Spring 2024

JRNL 3610 Digital Storytelling and Social Media, Northeastern University

Instructor, CAMD, Spring 2024, Fall 2023

Advanced Studies in Behavior and Social Media, Stanford University

Teaching team member, Department of Communication, Fall 2022

Digital Storytelling Basics, Teaching Assistant, The University of Texas at Austin

Lab instructor, teaching assistant, and guest lecturer, Spring 2020, Fall 2019, and Spring 2019

The U.S.–China Tango: Technology, Media, and Future, The University of Texas at Austin

Teaching Assistant, Fall 2020

Social Media Journalism, The University of Texas at Austin

Teaching Assistant, Summer 2019

Data, Privacy, and You, The University of Texas at Austin, Fall 2018

Lab instructor, teaching assistant, and guest lecturer, Fall 2018

Guest Lectures

- *Understanding and Designing AIs with Human Values,* for course CS5170 - Human-AI interaction, Khoury College of Computer Sciences, Northeastern University, April 1, 2024.

- *Confronting Mis-and Disinformation in the Digital Age,* for course Digital Storytelling and Social Media, Northeastern University, October 11. 2023, March 11, 2024.

- *Interventions in the age of hyper-partisan misinformation,* for course Advanced Social Media Research: Digital Media Interventions, Stanford University, October 17, 2022.

- *How AI is used in visual storytelling*, for course Visual Storytelling, Northeastern University, April 6, 2022.

- *Use CloudResearch/MTurk to conduct online experiments*, for course Quantitative Research Methods in Communication, North Dakota State University, February 16, 2022.

- *How to use CloudResearch/MTurk to conduct online experiments*, for course Introduction to Research Methods, The University of Texas at Austin, September 30, 2021.

- *How artificial intelligence and automation are impacting journalism*, for course Digital Storytelling Basics, The University of Texas at Austin, April 2, 2019, October 29, 2019, April 7, 2020, October 27, 2020, and April 1, 2021.

- *A new conversation: How artificial intelligence are impacting our life*, for course The U.S.–China Tango: Technology, Media, and Future, The University of Texas at Austin, October 21, 2020.

- *How automated journalism inspires selective exposure*, for course Media Effects and Politics, The University of Texas at Austin, April 28, 2020.

- ***The Snowden leaks: A complex relationship with privacy***, for course Data, Privacy, and You, The University of Texas at Austin, November 20, 2018.

Students Mentored

* Students with co-authored publication or conference paper

PhD Students (research mentor, not advising)

Cid Halsey-Steve Decatur* (Stanford University, Communication), 2022-2023

Master Students

Alex Boltz* (University of Washington, Information), 2020-2023

Undergraduate Students

Jenny Mai* (Stanford University, Computer Science), 2023-now

Tori Qiu* (Stanford University, Symbolic Systems, now a PhD student at Carnegie Mellon University), 2022-now

Tammer Bagdasarian* (Stanford University, Communication), 2022-2023

Caitlin E Baird* (Stanford University, Communication), 2022-2023

Cameron M. Vaughan* (Stanford University, Communication), 2022-2023

David Mullings (University of Texas at Austin, Computer Science, now at J.P. Morgan), 2023-now

Anqing Chen* (University of Texas at Austin, Computer Engineering, now at Google), 2020-2022

Anusha Mittal (University of Texas at Austin, Econometrics and Quantitative Economics), 2023-2024

Invited Talks

- ***Examine hyper-partisan (mis)information with human-centered AI,*** Polarization and Social Change Lab, Stanford University, February 7, 2023.
- ***The evolving role of AI in political news consumption: The effects of algorithmic vs. community label on perceived accuracy of hyper-partisan misinformation***, Cyber Policy Center Fall Seminar Series, Stanford University, November 1, 2022.
- ***Examine algorithmic bias with human-centered approaches,*** College of Arts, Media and Design, Northeastern University, April 6, 2022.

- ***Algorithmic decisions and algorithmic bias in the era of Artificial Intelligence***, School of Journalism and Communication, Peking University, April 8, 2022.
- ***Algorithmic bias: Does automated journalism reduce bias?*** The Edward R. Murrow College of Communication, Washington State University, February 8, 2021.

Service

- Associate Chair, CSCW 2024 Program Committee, The 27th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2024), 2023-2024
- Co-chair, C+J 2024: The 2024 Computation + Journalism Symposium, 2024
- Reviewer for *Digital Journalism,* 2024
- Reviewer for *Scientific Reports*, 2023
- Reviewer for *Journal of Big Data*, 2023
- Reviewer for *New Media and Society*, 2023, 2022, 2021, 2020.
- Reviewer for *Human-Computer Interaction*, 2023
- Reviewer for *Asian Journal of Communication*, 2023.
- Reviewer for *Journalism Studies*, 2022.
- Reviewer *for ACM CHI Conference on Human Factors in Computing Systems (CHI 23)*, 2022.
- Reviewer for *Internet Research*, 2022.
- Reviewer for *Media and Communication*, 2022, 2020.
- Reviewer for *Communication Research and Practice*, 2020.
- Reviewer for *the Annual International Communication Association Conference (ICA)*, 2018, 2019, 2020, 2021, 2022, 2023.
- Student leader, Digital Media Research Program (DMRP), Moody College of Communication, The University of Texas at Austin, 2020–2021.