

# Hannah Mieczkowski

human-AI interaction and collaboration / interpersonal perception  
language change / social media use measurement

✉ hnmieczkowski@gmail.com | 🏠 hnmiecz.com | 🐦 @hnmiecz

## Education

### Stanford University

PH.D., COMMUNICATION

Stanford, CA

Sept. 2017 - June 2022

- Advisor: Dr. Jeffrey T. Hancock
- Dissertation Title: AI-Mediated Communication: Examining Agency, Ownership, Expertise, and Roles of AI Systems

### Stanford University

M.A., COMMUNICATION

Stanford, CA

Sept. 2017 - June 2020

- Advisor: Dr. Jeffrey T. Hancock

### Stony Brook University

B.A., PSYCHOLOGY AND B.A., LINGUISTICS

Stony Brook, NY

Aug. 2013 - May 2017

- Distinctions: Valedictorian, Summa Cum Laude

## Publications

A<sup>+</sup> denotes when I mentored an undergraduate student.

### JOURNAL ARTICLES AND CONFERENCE PROCEEDINGS

Parry, D., Davidson, B. I., Sewall, C. J. R., Fisher, J. T., **Mieczkowski, H.**, Quintana, D. S. (2021, May). A Systematic Review and Meta-Analysis of Discrepancies Between Logged and Self-Reported Digital Media Use. *Nature Human Behaviour*. <https://doi.org/10.1038/s41562-021-01117-5>

**Mieczkowski, H.**, Hancock, J., Naaman, M., Jung, M., Hohenstein, J. (2021, April). AI-Mediated Communication: Language Use and Interpersonal Effects in a Referential Communication Task. *Proceedings of the ACM on Human-Computer Interaction (CSCW)*. <https://doi.org/10.1145/3449091>

Weiss, D.<sup>+</sup>, Liu, S. X., **Mieczkowski, H.**, Hancock, J. (2022, January). Effects of AI Use on Interpersonal Perceptions of Job Applicants. *Cyberpsychology, Behavior, and Social Networking*. <https://doi.org/10.1089/cyber.2020.0863>

Goldenthal, E.<sup>+</sup>, Park, J., Liu, S. X., **Mieczkowski, H.**, Hancock, J. (2021, December). Not All AI Are Equal: Exploring the Accessibility of AI-Mediated Communication Technology. *Computers in Human Behavior*. <https://doi.org/10.1016/j.chb.2021.106975>

Parry, D., Fisher, J. T., **Mieczkowski, H.**, Sewall, C. J. R., Davidson, B. I. (2021, December). Social Media and Well-being: A Methodological Perspective. *Current Opinion in Psychology*. <https://doi.org/10.1016/j.copsyc.2021.11.005>

**Mieczkowski, H.**, Lee, A. Y., Hancock, J. (2020, October). Priming Effects of Social Media Use Scales on Well-Being Outcomes: The Influence of Intensity and Addiction Scales on Self-Reported Depression. *Social Media + Society*. <https://doi.org/10.1177/2056305120961784>

**Mieczkowski, H.**, Liu, S. X., Hancock, J., Reeves, B. (2019, March). Helping Not Hurting: Applying the Stereotype Content Model and BIAS Map to Social Robotics. *2019 14th ACM/IEEE International Conference on Human-Robot Interaction (HRI)*. <https://doi.org/10.1109/HRI.2019.8673307>

### CONFERENCE PAPERS

Grotto, A., Guadagno, R. E., Hancock, J., **Mieczkowski, H.**. May 2021. The Principal-Agent Framework of AI-Mediated Communication. *71st Annual ICA Conference: Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice*. Virtual.

Grotto, A., Guadagno, R. E., Hancock, J., **Mieczkowski, H.**. February 2021. Applying the Principal-Agent Framework to AI-Mediated Communication: Psychological Implications. *AAAI-21 Workshop on AI For Behavior Change*. Virtual.

Hancock, J., Liu, S. X., French, M., Luo, M., **Mieczkowski, H.** May 2019. Social Media Use and Well-Being: A Meta-Analysis. *69th Annual ICA Conference: Communication Beyond Boundaries*. Washington, DC.

## BOOK CHAPTERS

- Liu, S. X., Arredondo, E., **Mieczkowski, H.**, Hancock, J., Reeves, B. 2021. A picture is (still) worth a thousand words: The impact of appearance and characteristic narratives on people's perceptions of social robots. In Engel, U., Quan-Haase, A., Liu, S.X. & Lyberg, L. (Ed.) *Routledge Handbook of Computational Social Science* (Vol. 1). Taylor & Francis. <https://doi.org/10.4324/9781003024583>
- Hancock, J., Liu, S. X., Luo, M., **Mieczkowski, H.** 2022. Social Media and Well-Being. In Matz, S. (Ed.) *The Psychology of Technology: Social Science Research in the Age of Big Data*. American Psychological Association. <https://www.apa.org/pubs/books/psychology-technology>

## Manuscripts Under Review

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An <sup>E</sup> denotes equal first authorship.

- Lee, A. Y.<sup>E</sup>, **Mieczkowski, H.**<sup>E</sup>, Ellison, N., Hancock, J. (under review). The Algorithmic Crystal: Conceptualizing the Self Through Algorithmic Personalization on TikTok.
- Hohenstein, J., DiFranzo, D., Kizilcec, R., Aghajari, Z., **Mieczkowski, H.**, Levy, K., Naaman, M., Hancock, J., Jung, M. (under review). Artificial intelligence in communication impacts language and social relationships. <https://arxiv.org/abs/2102.05756> [preprint]

## Presentations

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A<sup>+</sup> denotes when I mentored an undergraduate student. An <sup>E</sup> denotes equal first authorship. In all instances, unless noted with a \*, I was the presenting author.

- Lee, A. Y.<sup>E\*</sup>, **Mieczkowski, H.**<sup>E</sup>, Ellison, N., Hancock, J. February 2022. The Algorithmic Crystal: Conceptualizing the Self Through Algorithmic Personalization on TikTok. *72nd Annual ICA Conference: One World, One Network?*. Paris, France.
- Mieczkowski, H.** AI-Mediated Communication: Examining Agency and Roles of AI Systems. *72nd Annual ICA Conference: One World, One Network?*. Paris, France.
- Mieczkowski, H.** Agency and Ownership in AI-Mediated Communication. *Human-Machine Communication: Bridging Worlds, Bridging Networks ICA Pre-Conference*. Paris, France.
- Lee, A. Y.<sup>E</sup>, **Mieczkowski, H.**<sup>E</sup>, Ellison, N., Hancock, J. February 2022. The Algorithmic Crystal: Conceptualizing the Self Through Algorithmic Personalization on TikTok. *Society for Personality and Social Psychology: Psychology of Media and Technology Pre-Conference*. San Francisco, CA.
- Mieczkowski, H.**, Hancock, J., Naaman, M., Jung, M., Hohenstein, J. May 2021. AI-Mediated Communication: Language Use and Interpersonal Effects in a Referential Communication Task. *71st Annual ICA Conference: Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice*. Virtual.
- Grotto, A., Guadagno, R. E., Hancock, J., **Mieczkowski, H.** May 2021. The Principal-Agent Framework of AI-Mediated Communication. *71st Annual ICA Conference: Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice*. Virtual.
- Goldenthal, E.<sup>+</sup>, Liu, S. X., Park, J., **Mieczkowski, H.**, Hancock, J. May 2021. Not All AI Are Equal: Exploring the Accessibility of AI-Mediated Communication Technology. *71st Annual ICA Conference: Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice*. Virtual.
- Weiss, D.<sup>+</sup>, Liu, S. X., **Mieczkowski, H.**, Hancock, J. May 2021. Effects of AI Use on Interpersonal Perceptions of Job Applicants. *71st Annual ICA Conference: Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice*. Virtual.
- Parry, D., Davidson, B. I., Sewall, C., Fisher, J. T.<sup>+</sup>, **Mieczkowski, H.**, Quintana, D. S. May 2021. Measurement Discrepancies Between Logged and Self-Reported Digital Media Use: A Systematic Review and Meta-Analysis. *71st Annual ICA Conference: Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice*. Virtual.
- Mieczkowski, H.** March 2021. Positioning AI-Mediated Communication in the Field of Human-Machine Communication. *Human-Robot Interaction (HRI), Building Bridges and Not Walls: Expanding the Human-Machine Communication Connections Within HRI Pre-Conference*. Virtual.
- Grotto, A., Guadagno, R. E., Hancock, J., **Mieczkowski, H.** May 2020. Human Principals, AI Agents: The Principal-Agent Framework of AI-Mediated Communication. *Open Questions in Human-Machine Communication ICA Pre-Conference*. Gold Coast, Australia. Virtual.

- Mieczkowski, H.**, Hancock, J., Naaman, M. May 2020. AI-Mediated Communication: Effects on Language Production, Person Perception and Task Performance. *70th Annual ICA Conference: Open Communication*. Virtual.
- Mieczkowski, H.**, Chapman, N. April 2020. Cultural Capital, Gatekeeping, and Boundary Maintenance in the Phish Scene. *Southern Sociological Society 2020 Annual Meeting*. Jacksonville, Florida. [Canceled due to COVID-19]
- Mieczkowski, H.**, Lee, A. Y., Hancock, J. February 2020. Priming Effects of Social Media Use Scales on Well-Being Outcomes: The Influence of Intensity and Addiction Scales on Self-Reported Depression. *Society for Personality and Social Psychology: Psychology of Media and Technology Pre-Conference*. New Orleans, LA.
- Mieczkowski, H.**, Hancock, J. May 2019. AI-Mediated Communication: Effects on Linguistic Patterns, Interpersonal Dynamics and Task Performance. *Communicating with Machines: Boundless Imagination ICA Pre-Conference*. Washington, DC.
- Mieczkowski, H.**, Liu, S. X., Hancock, J., Reeves, B. May 2019. Helping Not Hurting: Applying the Stereotype Content Model and BIAS Map to Social Robotics. *69th Annual ICA Conference: Communication Beyond Boundaries*. Washington, DC.
- Hancock, J.\*, Liu, S. X., French, M., Luo, M., **Mieczkowski, H.** May 2019. Social Media Use and Well-Being: A Meta-Analysis. *69th Annual ICA Conference: Communication Beyond Boundaries*. Washington, DC.
- Liu, S. X.\*, Arredondo, E., **Mieczkowski, H.**, Hancock, J., Reeves, B. May 2019. A picture is (still) worth a thousand words: The impact of appearance and characteristic narratives on people's perceptions of social robots. *69th Annual ICA Conference: Communication Beyond Boundaries*. Washington, DC.
- Mieczkowski, H.** May 2019. The Language of 3.0: Analyzing Show Reviews on Phish.net. *Phish Studies Conference*. Corvallis, Oregon.
- Mieczkowski, H.** June 2018. Ethical Considerations and Intellectual Gains from a "Screenomics" Methodology. *Bridging the Lab and the Field: Workshop at the 12th International Conference on Web and Social Media*. Stanford, California.
- Mieczkowski, H.**, Liu, S. X., Hancock, J., Reeves, B. May 2018. Status and Social Robots: Perceptions Based on Physical Characteristics. *Communicating with Machines: Theory and Practice ICA Pre-Conference*. Prague, Czech Republic.

## Research Experience

2017-2022	<b>Doctoral Researcher</b> , Social Media Lab, Stanford University	Stanford, CA
2021	<b>Research Intern</b> , HCI, Dataminr	New York, NY
2020-2021	<b>Volunteer Researcher</b> , South Bay Coalition to End Human Trafficking	Gilroy, CA
2020	<b>UX Research Intern</b> , Community Integrity, Facebook	Menlo Park, CA
2019-2020	<b>UX Researcher</b> , Community Experiences, PRO Unlimited @ Facebook	Menlo Park, CA
2019	<b>Data Analyst</b> , Fit Kids	Redwood City, CA
2018	<b>Research Assistant</b> , PRO Unlimited @ Facebook	Menlo Park, CA
2014-2017	<b>Research Assistant</b> , Communication Lab, Stony Brook University	Stony Brook, NY

## Fellowships, Grants & Awards

### GRADUATE CAREER

A # denotes a Stanford University organization.

2022	<b>Dissertation Award (Honorable Mention)</b> , Psychology of Technology Institute
2021-2022	<b>Dissertation Fellowship</b> , Institute for Research in the Social Sciences <sup>#</sup>
2021	<b>Magic Grant Recipient</b> , Brown Institute for Media Innovation
2021	<b>Top Paper Award Recipient</b> , International Communication Association, Mobile Communication Division
2020	<b>Seed Grant</b> , Ethics, Society and Technology Hub <sup>#</sup> [Principal Investigator]
2020	<b>Research Grant</b> , Center on Philanthropy and Civil Society <sup>#</sup>
2020	<b>Diversity and Inclusion Innovation Funds</b> , Office of the Vice Provost for Graduate Education <sup>#</sup>
2020	<b>Data Science Scholarship</b> , Dataquest & AI Inclusive
2019-2020	<b>Graduate Fellowship</b> , McCoy Family Center for Ethics in Society <sup>#</sup>

- 2019-2020 **Graduate Research Fellowship**, Center for Spatial and Textual Analysis<sup>#</sup>
- 2019 **Magic Grant Finalist**, Brown Institute for Media Innovation
- 2018, 2019 **Travel Grant**, International Communication Association

## UNDERGRADUATE CAREER

- 2017 **Ward Melville Valedictory Award**, Stony Brook University
- 2017 **Provost's Award for Academic Excellence**, Stony Brook University
- 2017 **Undergraduate Recognition for Academic Excellence**, Stony Brook University
- 2013-2017 **Academic Achievement Award**, Stony Brook University
- 2013-2017 **Presidential Scholarship**, Stony Brook University

## Teaching Experience

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### STANFORD UNIVERSITY

- 2021 **COMM 301: Communication Research, Curriculum Development and Pedagogy**, Teaching Affiliate
- 2021 **COMM 245: Personality and Digital Media**, Teaching Assistant
- 2021 **CS 182: Ethics, Public Policy, and Technological Change**, Teaching Assistant
- 2020 **COMM 224: Lies, Trust and Tech**, Teaching Assistant
- 2019 **COMM 108: Media Processes and Effects**, Teaching Assistant
- 2019 **COMM 1B: Media, Culture, and Society**, Teaching Assistant
- 2019 **COMM 224: Lies, Trust and Tech**, Teaching Assistant
- 2018 **EFLANG 684D: Effective Negotiation and Persuasion**, Teaching Assistant

### STONY BROOK UNIVERSITY

- 2015 **PSY 240: Introduction to Social Psychology**, Undergraduate Teaching Assistant

## Work and Service Experience

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- Current **Student and Early Career Representative**, International Communication Association, Human-Machine Communication Interest Group
- 2020-2022 **Communication for Diversity Representative**, Department of Communication, Stanford University
- 2021 **Graduate Student Representative**, Stanford Community Resource Group, County of Santa Clara
- 2020-2021 **Graduate Co-Director of Affordability**, Associated Students of Stanford University Executive Cabinet
- 2019-2020 **PhD Student Representative**, Department of Communication, Stanford University
- 2018-2019 **Language and Orientation Tutor**, Office of the Vice Provost for Graduate Education, Stanford University
- 2016-2017 **Assistant Director**, Writing Center, Stony Brook University
- 2014-2017 **Tutor**, Writing Center, Stony Brook University

## Professional Development

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### INVITED TALKS

- "Ethical and Privacy Considerations of Personality and Digital Media Research." June 2021. COMM 245: Personality and Digital Media, Stanford University.
- "Social Media Use and Well-Being: Why Do Different Measurements Mean Different Results?" May 2021. Media Change & Innovation Division, Institute of Communication and Media Research, University of Zurich.

- “AI-Mediated Communication.” November 2020. PWR 2TB: Hip-hop, Orality, and Language Diversity, Stanford University.
- “Effective Listening Skills.” November 2020. Academic Transition Advising Program, Stanford University.
- “*The Social Dilemma*: A Conversation with Experts.” October 2020. School of Journalism and Communication, University of Oregon. [Panelist]
- “Helping Not Hurting: Applying the Stereotype Content Model and BIAS Map to Social Robotics.” September 2020. Robotics Seminar, Cornell University.
- “Effective Listening Skills.” March 2020. Academic Transition Advising Program, Stanford University.

## MEDIA COVERAGE

- “Do Popular AI Communication Tools Favor the Privileged?” February 10, 2022. Stanford Institute for Human-Centered Artificial Intelligence. <https://hai.stanford.edu/news/do-popular-ai-communication-tools-favor-privileged>
- “Everything you’ve read about the ill-effects of screen time might be based on bad data.” May 19, 2021. Fast Company. <https://www.fastcompany.com/90638549/everything-youve-read-about-the-ill-effects-of-screen-time-might-be-based-on-bad-data>
- “When AI Writes Your Email.” May 6, 2020. Stanford Institute for Human-Centered Artificial Intelligence. <https://hai.stanford.edu/blog/when-ai-writes-your-email>
- “Worry Over Social Media Use and Well-Being May Be Misplaced” May 30, 2019. Psychology Today. <https://www.psychologytoday.com/us/blog/brain-waves/201905/worry-over-social-media-use-and-well-being-may-be-misplaced>