

## Ruth Elisabeth Appel

rappel@cs.stanford.edu | linkedin.com/in/rutheappel | github.com/ruthappel

### EXECUTIVE SUMMARY

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Award-winning researcher combining deep technical expertise in AI with empirical social science to shape safe AI development.

### AREAS OF EXPERTISE

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AI, trust and safety, bias, misinformation, persuasion, elections, causal inference, data science, wellbeing, ethics, privacy

### PROFESSIONAL EXPERIENCE

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| <b>09/2019 – present</b><br>Stanford, US      | <b>Stanford University</b><br>Stanford Impact Labs Postdoctoral Fellow (08/2024 – present) <ul style="list-style-type: none"><li>• Led research on generative AI content moderation preferences to inform AI alignment</li><li>• Showed how to approximate <a href="#">political neutrality in AI</a> and <a href="#">evaluate AI for political bias</a></li><li>• Co-led project on strengthening <a href="#">third-party AI evaluation</a></li><li>• Showed how social media regulation can inform <a href="#">generative AI regulation</a></li><li>• Led research on deceptive campaigns and election interference as part of a large-scale academic-industry collaboration with Meta analyzing data from 250 million users</li><li>• Shaped research with Meta on <a href="#">testing misinformation interventions at scale</a></li><li>• Worked with cross-functional stakeholders (e.g., research, engineering, legal)</li></ul> SAP Graduate Fellow in Science and Engineering & PACS PhD Fellow (09/2019 – 06/2024) <ul style="list-style-type: none"><li>• Led research uncovering <a href="#">why partisans disagree about content moderation</a> in the US</li><li>• Led research on a scalable <a href="#">intervention to counter vaccine misinformation</a></li><li>• Led research on the <a href="#">ethics</a> and <a href="#">privacy</a> implications of new technologies</li><li>• Core contributor to research on an <a href="#">intervention to improve youth wellbeing using an app</a></li><li>• Communicated results with relevant stakeholders and the public via meetings with high-level decision-makers, conference presentations, <a href="#">popular press articles</a>, and <a href="#">inputs to policy drafts</a></li></ul> Teaching Assistant (10/2021 – 12/2021, 01/2021 – 03/2021) <ul style="list-style-type: none"><li>• Led research methods and R programming sections and developed technical course materials</li></ul> |
| <b>06/2020 – 09/2020</b><br>San Francisco, US | <b>Google LLC</b><br>Quantitative User Experience Research Intern <ul style="list-style-type: none"><li>• Analyzed large-scale Google Cloud user log data to provide UX recommendations</li><li>• Added to Google's research infrastructure by importing machine learning software packages</li></ul>   |
| <b>02/2019 – 06/2019</b><br>Durham, US        | <b>Duke University, Center for Advanced Hindsight</b><br>Health Division Research Associate <ul style="list-style-type: none"><li>• Designed large-scale experiments to improve health behaviors such as vaccine uptake</li></ul>   |
| <b>09/2016 – 12/2016</b><br>New York, US      | <b>Delegation of the European Union to the United Nations</b><br>Fifth Committee Section (Administration and Budget) Intern <ul style="list-style-type: none"><li>• Prepared and participated in high-level meetings on budget issues and the 2030 Agenda</li></ul>   |

### EDUCATION

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| <b>09/2019 – 06/2024</b><br>Stanford, US      | <b>Ph.D. in Political Communication</b> ( <i>Nathan Maccoby Dissertation Award</i> )<br>Stanford University; Ph.D. Advisor: Jennifer Pan; GPA: 4.0<br>Dissertation: Countering Social Media Manipulation: Three Studies of Social Media Manipulation and Efforts to Counter It<br>Dissertation Committee: Jennifer Pan, Jeffrey Hancock, Susan Athey, Dan Jurafsky (Chair)<br>Course focus: Research methods, causal inference, science and interpersonal communication<br>Selected courses: ECON293 ML and Causal Inference, ECON281 Experiments for Impact |
| <b>09/2023 – 06/2024</b><br>Stanford, US      | <b>M.S. in Computer Science</b><br>Stanford University, Department of Computer Science; Advisor: Dan Jurafsky; GPA: 4.0<br>Course focus: Artificial intelligence, natural language processing, data science<br>Selected courses: CS224N NLP with Deep Learning, CS399 Political Bias in LLMs, CS246 Mining Massive Data Sets, CS145 Data Systems, CS161 Algorithms   |
| <b>09/2017 – 06/2019</b><br>Paris, France     | <b>Master in Public Policy</b> ( <i>summa cum laude</i> )<br>Sciences Po, School of Public Affairs<br>Course focus: Emerging technologies and public policy, policy analysis   |
| <b>06/2018 – 08/2018</b><br>New York, US      | <b>Visiting Researcher</b><br>Columbia University, Columbia Business School; Advisor: Sandra Matz  |
| <b>08/2013 – 10/2016</b><br>Mannheim, Germany | <b>B.Sc. Economics</b><br>University of Mannheim, Department of Economics; Minor: Political Science  |

## SKILLS

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| <b>Computer Skills</b>  | R, Python, C++, SQL, GitHub, Markdown, LaTeX, and Mendeley                                       |
| <b>Research Methods</b> | NLP (e.g., AI evaluations, fine-tuning), causal inference, field experiments, survey experiments |
| <b>Data Skills</b>      | Large-scale platform observational and experimental data, lab experiment data                    |
| <b>Soft Skills</b>      | Cross-functional collaboration, research communication, policy engagement                        |
| <b>Language Skills</b>  | German (native), English (fluent), French (advanced), Spanish (basic)                            |

## PEER-REVIEWED PUBLICATIONS

- Appel, R. E.** (2025). Generative AI Regulation Can Learn from Social Media Regulation. <https://doi.org/10.48550/arXiv.2412.11335>. ICML Position Paper Track (oral)
- Fisher, J., **Appel, R. E.**, Park, C., Potter, Y., Jiang, L., Sorensen, T., Feng, S., Tsvetkov, Y., Roberts, M., Pan, J., Song, D., Choi, Y. (2025). Political Neutrality in AI is Impossible—But Here Is How to Approximate It. <https://doi.org/10.48550/arXiv.2503.05728>. ICML Position Paper Track (oral)
- Longpre, S., Klyman, K., **Appel, R. E.**, Kapoor, S., Bommasani, R., Sahar, M., McGregor, S., Ghosh, A., Bili-Hamelin, B., Butters, N., Nelson, A., Elazari, A., Sellars, A., Ellis, C., Sherrets, D., Song, D., Geiger, H., Cohen, I., McIlvenny, L., Srikumar, M., Jaycox, M., Anderljung, M., Johnson, N., Carlini, N., Mialhe, N., Marda, N., Henderson, P., Portnoff, R., Weiss, R., Westerhoff, V., Jernite, Y., Chowdhury, R., Liang, P., & Narayanan, A. (2025). In-House Evaluation Is Not Enough. Towards Robust Third-Party Evaluation and Flaw Disclosure for General-Purpose AI. <https://doi.org/10.48550/arXiv.2503.16861>. ICML Position Paper Track (spotlight)
- ★ featured in *WIRED* (2025, March) *Researchers Propose a Better Way to Report Dangerous AI Flaws*
- Appel, R. E.**, Pan, J., & Roberts, M. E. (2023). Partisan conflict over content moderation is more than disagreement about facts. *Science Advances*. <https://doi.org/10.1126/sciadv.adg6799>
- ★ top 5% of all research scored by Altmetric
- Matz, S. C., **Appel, R. E.**, & Croll, B. (2022). Privacy and ethics in the age of Big Data. In S. C. Matz (Ed.), *The psychology of technology: Social science research in the age of Big Data* (pp. 379–420). American Psychological Association. <https://doi.org/10.1037/0000290-012>
- Appel, R. E.**, & Matz, S. C. (2021). Psychological targeting in the age of Big Data. In *Measuring and Modeling Persons and Situations*. Elsevier. <https://doi.org/10.1016/b978-0-12-819200-9.00015-6>
- Matz, S. C., **Appel, R. E.**, & Kosinski, M. (2020). Privacy in the Age of Psychological Targeting. *Current Opinion in Psychology*, 31. <https://doi.org/10.1016/j.copsyc.2019.08.010>

## WORKSHOP PAPERS

- Appel, R. E.** (2024). Generative AI Regulation Can Learn from Social Media Regulation. *NeurIPS Regulatable ML Workshop*, December 2024, Vancouver, Canada. <https://doi.org/10.48550/arXiv.2412.11335>

## UNDER PEER REVIEW

- Appel, R. E.**, Kim, Y. M., Pan, J., Xu, Y., Nimmo, B., Thomas, D. R., Allcott, H., Barberá, P., Brown, T., Crespo-Tenorio, A., Dimmery, D., Freelon, D., Gentzkow, M., Guess, A. M., González-Bailón, S., Iyengar, S., Lazer, D., Malhotra, N., Moehler, D., Nyhan, B., Settle, J., Thorson, E., Tromble, R., Velasco Rivera, C., Wilkins, A., Wojcieszak, M., Xiong, B., Kiewiet de Jonge, C., Franco, A., Mason, W., Stroud, N. J., & Tucker, J. A. How deceptive online networks reached millions in the US 2020 elections. Under review at *Nature Human Behaviour*.
- Appel, R. E.**, Roozenbeek, J., Rayburn-Reeves, R., Corbin, J., Basol, M., Compton, J., & van der Linden, S. Psychological inoculation improves resilience to and reduces willingness to share vaccine misinformation. <https://doi.org/10.31234/osf.io/ek5pu>. Under review at *Scientific Reports*.
- Pei, R., Grayson, S. J., **Appel, R. E.**, Soh, S., Garcia, S., Huang, E., Jackson, M. O., Harari, G. M., & Zaki, J. Bridging the empathy gap: Reducing empathy misperceptions increases social connectedness. Under review at *Nature Human Behaviour*.

## SELECTED WORK IN PROGRESS

- Appel, R. E.**, Pan, J., & Roberts, M. E. How partisanship affects preferences for content moderation in large language models.
- Appel, R. E.**, Athey, S., Karlan, D., Koutout, K., Luca, M., Manjeer, U., Sacher, S., & Wernerfelt, N. Combating misinformation on social media.
- Minson, J., Erlich, A., Gans-Morse, J., Higgins, C., **Appel, R. E.**, Baumann, C., Bai, H., Chen, S., Thomander, S. D., Dorison, C. A., Halperin, E., Jost, J. T., Koenig, F., Lee, I., Lerner, J. S., Makarin, A., Moore, M., Nir, N., Radnitz, S., Risen, J. L.,

Schweitzer, M. E., Shirikov, A., Spohn, M., Syunyaev, G., Vlasceanu, M., Wang, K., & Zeldin, N. Combating information avoidance in wartime Russia: A multidisciplinary field experiment.

#### SELECTED POLICY IMPACT AND PUBLIC ENGAGEMENT

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Bommasani, R., Singer, S., **Appel, R. E.**, Cen, S., Cooper, A. F., Cryst, E., Gailmard, L. A., Gonzalez, J. E., Ho, D. E., Klaus, I., Lee, M. M., Liang, P., Reuel, A., Song, D., Spence, D., Wan, A., Wang, A., Zhang, D., Zittrain, J., Chayes, J. T., Cuéllar, M.-F., & Fei-Fei, L. (2025). Report of the Joint California Policy Working Group on AI Frontier Models. <https://www.cafrontieraigov.org/>

Longpre, S., **Appel, R. E.** (2025). General-Purpose AI Needs Coordinated Flaw Reporting. <https://crfm.stanford.edu/2025/03/13/thirdparty.html>

**Appel, R. E.** (2024). Strengthening AI Accountability Through Better Third Party Evaluations. <https://hai.stanford.edu/news/strengthening-ai-accountability-through-better-third-party-evaluations>

**Appel, R. E.** (2024). EU DSA Election Guidelines Input. <https://ruthappel.github.io/assets/pdf/EU-DSA-Election-Guidelines-Input.pdf>

**Appel, R. E.** (2023). It's not just about facts: Democrats and Republicans have sharply different attitudes about removing misinformation from social media. <https://theconversation.com/its-not-just-about-facts-democrats-and-republicans-have-sharply-different-attitudes-about-removing-misinformation-from-social-media-216809>

★ read 40k times

Schaake, M., **Appel, R. E.**, Duplichen, D. M., Einstein, L., Elhai, W., Dhafer Muhammad Faishal, M., ... Zhao, J. (2020). *Input on the European Commission White Paper "On Artificial Intelligence – A European approach to excellence and trust."* [https://hai.stanford.edu/sites/default/files/2020-07/HAI\\_WhitePaper\\_v4B.pdf](https://hai.stanford.edu/sites/default/files/2020-07/HAI_WhitePaper_v4B.pdf)

Matz, S. C., **Appel, R. E.**, & Kosinski, M. (2019). Rethinking privacy in the age of psychological targeting. <https://blogs.lse.ac.uk/businessreview/2019/11/21/rethinking-privacy-in-the-age-of-psychological-targeting/>

#### INVITED TALKS

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**2024** Stanford Data Science Democracy Day, Stanford, US  
Social Technologies Lab at Cornell Tech, New York, US  
Hertie School, Berlin, Germany  
Graphika, virtual  
Atlantic Council DFRLab, virtual  
Google Jigsaw, virtual

**2023** NABE TEC, Santa Clara, US  
Stanford Data Science Democracy Day, Stanford, US  
Content Moderation and Free Speech on Social Media Workshop, Munich, Germany

**2021** Promoting Research in Social Media and Health Symposium, San Francisco, US

#### CONFERENCE TALKS

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**Appel, R. E.**, Kim, Y. M., Pan, J., Xu, Y., ..., Kiewiet de Jonge, C., Franco, A., Mason, W., Stroud, N. J. & Tucker, J. A. (2025, January). *How deceptive online networks reached millions in the US 2020 elections*. Information and Misinformation in Elections 2025 Conference, Caltech, virtual.

**Appel, R. E.**, Kim, Y. M., Pan, J., Xu, Y., ..., Kiewiet de Jonge, C., Franco, A., Mason, W., Stroud, N. J. & Tucker, J. A. (2024, September). *How deceptive online networks reached millions in the US 2020 elections*. Trust and Safety Research Conference, Stanford, US.

**Appel, R. E.**, Pan, J., & Roberts, M. E. (2024, February). *Partisan conflict over content moderation is more than disagreement about facts*. SPSP Annual Convention, San Diego, US.

**Appel, R. E.**, Pan, J., & Roberts, M. E. (2023, September). *Partisan conflict over content moderation is more than disagreement about facts*. Trust and Safety Research Conference, Stanford, US.

**Appel, R. E.**, Pan, J., & Roberts, M. E. (2023, July). *Partisan conflict over content moderation is more than disagreement about facts*. IC2S2 Conference, Copenhagen, Denmark.

**Appel, R. E.**, Basol, M., Rayburn-Reeves, R., Corbin, J., van der Linden, S., & Roozenbeek, J. (2022, May). *Bad Vaxx Online Game Intervention Increases Discernment and Reduces Willingness to Share Vaccine Misinformation*. ICA Conference, Paris, France.

**Appel, R. E.** (2019, August). *Privacy in the Age of Psychological Targeting*. SPSP Summer Psychology Forum, St. Louis, US.

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## INVITED POSTERS

**Appel, R. E.,** Pan, J., & Roberts, M. E. (2023, March). *How Partisanship Influences Perceptions of Censorship*. D3 Conference on Inequality in the Digital Age at Harvard Business School, Cambridge, US.

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## CONFERENCE POSTERS

**Appel, R. E.,** Pan, J., & Roberts, M. E. (2025, March). *How Partisanship Affects Preferences for Content Moderation in Large Language Models*. Designing Trustworthy AI in a Polarized World, The Hoover Institution, Stanford, US.

**Appel, R. E.,** Pan, J., & Roberts, M. E. (2023, February). *How Partisanship Influences Perceptions of Censorship*. SPSP Annual Convention, Atlanta, US.

**Appel, R. E.,** Basol, M., Rayburn-Reeves, R., Corbin, J., van der Linden, S., & Roozenbeek, J. (2022, February). *Bad Vaxx Online Game Intervention Increases Discernment and Reduces Willingness to Share Vaccine Misinformation*. Psychology of Media and Technology Preconference at the SPSP Annual Convention, San Francisco, US.

**Appel, R. E.** (2020, February). *Privacy in the Age of Psychological Targeting*. SPSP Annual Convention, New Orleans, US.

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## SELECTED PRIZES AND AWARDS

|                |   |
|----------------|---|
| <b>06/2024</b> | Stanford Communication Department Nathan Maccoby Dissertation Award (\$1,000)               |
| <b>10/2023</b> | LLM Agents Hackathon at AGI House, 3 <sup>rd</sup> prize for personalized AI shopping agent |

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## SELECTED FELLOWSHIPS AND GRANTS

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|--------------------------|---|
| <b>09/2024 – present</b> | Stanford Impact Labs Postdoctoral Fellowship                            |
| <b>09/2024 – 09/2025</b> | Stanford High Impact Technology Fund Award (\$38,000)                   |
| <b>04/2024 – 04/2025</b> | Stanford TomKat Center Innovation Transfer Grant (\$30,000)             |
| <b>12/2023 – 12/2024</b> | Center on Philanthropy and Civil Society Grant (\$2,000)                |
| <b>09/2019 – 06/2024</b> | SAP Stanford Graduate Fellow in Science and Engineering (\$52,920 p.a.) |
| <b>09/2022 – 07/2023</b> | Siegel Family Endowment Research Fellow                                 |
| <b>09/2022 – 06/2023</b> | Center on Philanthropy and Civil Society PhD Research Fellow (\$79,650) |
| <b>06/2022 – 09/2022</b> | Stanford Impact Labs Summer Collaborative Research Fellow (\$4,000)     |
| <b>02/2020 – 01/2021</b> | Stanford Center for American Democracy Fellow (\$2,000)                 |
| <b>01/2014 – 06/2019</b> | Student Fellow of the German Academic Scholarship Foundation (€27,665)  |

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## SELECTED ACTIVITIES AND VOLUNTEER WORK

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| <b>05/2020 – 06/2024</b><br>Stanford, US                             | <b>Stanford German Student Association</b><br>Vice President <ul style="list-style-type: none"><li>• Co-led Transatlantic Summit on geopolitics and tech (200 participants, \$150,000 budget)</li><li>• Met with international leaders from politics and business</li></ul>  |
| <b>09/2023 – 06/2024</b><br><b>01/2020 – 05/2021</b><br>Stanford, US | <b>Wonks and Techies at Stanford University</b><br>Group Member <ul style="list-style-type: none"><li>• Co-authored a white paper with suggestions for the EU AI strategy</li><li>• Participated in discussions and a talk series on ethics, technology and policy</li></ul>   |
| <b>07/2017 – 06/2019</b><br>Multiple locations,<br>Germany           | <b>German Academic Scholarship Foundation</b><br>Seminar Organizer, Seminar Participant <ul style="list-style-type: none"><li>• Organized research seminar on democracy and digitization (80 participants, highly positive feedback)</li><li>• Participated in research seminar on digital ethics, conducting research on the future of work</li></ul> |

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## PROFESSIONAL SERVICE

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| <b>Reviewer</b> | Nature Communications, PNAS Nexus, Humanities and Social Sciences Communications, Journal of Politics, Journal of Elections, Public Opinion & Parties, British Journal of Political Science, ACM Designing Interactive Systems (DIS) |
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