

**Univ.-Prof. Dr. Annie Waldherr**  
Professor of Computational Communication Science  
Last Update: 11/16/2022

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University of Vienna  
Department of Communication  
Kolingasse 14-16  
1090 Vienna, Austria

**ACADEMIC POSITIONS**

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- 09/20 – present **University of Vienna, Austria**  
Full Professor  
Department of Communication
- 01/17 – 08/20 **University of Münster, Germany**  
Assistant Professor  
Department of Communication
- 10/10 – 12/16 **Freie Universität Berlin, Germany**  
Research Associate  
Institute for Media and Communication Studies  
Division of Communication Theory/ Media Effects
- 04/16 – 08/16 **Northeastern University, Boston, USA**  
Visiting Scholar  
Network Science Institute  
Host: Professor David M. J. Lazer
- 11/05 – 10/10 **University of Hohenheim, Stuttgart, Germany**  
Research Associate  
Faculty of Business, Economics, and Social Sciences  
Department of Communication
- 10/03 – 07/04 **University of Hohenheim, Stuttgart, Germany**  
Research and Teaching Assistant  
Faculty of Business, Economics, and Social Sciences  
Department of Business Administration

## EDUCATION

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- 10/11      **Freie Universität Berlin, Germany**  
Dr. phil., Communication Science  
  
Dissertation: “Dynamics of media attention: A simulation model”  
Summa cum laude
- 10/09      **Certificate for Academic Teaching** for completing 200 hours of  
professional training on academic teaching skills
- 10/05      **University of Hohenheim, Germany**  
Diploma, Communication Science  
  
Thesis: “Leaders’ communication styles: A structural analysis of  
communication behavior in leadership situations”
- 09/02 – 06/03      **University of Oregon, USA**  
Exchange Student at the School of Journalism and Communication

## HONORS

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- 01/22 – 12/25      **Mercator Fellow** at the DFG-funded Collaborative Research Centre  
(CRC 1265) “Refiguration of Spaces”
- 05/18      **Best Paper Award** of the Computational Methods Interest Group of  
the International Communication Association
- 05/18      **Best Paper Award** of the German Communication Association  
(DGPuK) for the best German journal publication in communication  
studies in 2017
- 04/12      **Publication Grant** of the Ernst-Reuter-Association of Freie Universität  
Berlin for publishing my PhD thesis as a book
- 09/08 – 08/09      **Mentee** in the Gertrude J. Robinson Program for Female Scientists of  
the German Communication Association (DGPuK)
- 09/02 – 06/03      **Scholarship** of the Baden-Württemberg Foundation for studies at the  
School of Journalism and Communication, University of Oregon,  
Eugene, OR, USA

## SERVICE

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- ongoing      **Editorial Board Member** of the journals *Communication Methods & Measures*, *Journalism & Mass Communication Quarterly*, *Journal of Communication*, *Communication Theory*, *Media and Communication*, *Computational Communication Research*
- since 2022      **Chair of the Computational Methods Division** of the International Communication Association
- 2017 – 2019      **Organizing Committee**, Annual Conference of the German Communication Association (DGPuK) in Münster in 2019

## THIRD-PARTY FUNDED RESEARCH PROJECTS

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- 06/23 – 05/26      **Project** “Social Issue Emergence in the Hybrid Media System” funded by the FWF Austrian Science Fund as part of the WEAVE initiative. **Principal Investigator** (€ 164,000), joint project with Prof. Dr. Thorsten Quandt (University of Münster).
- 11/22 – 10/25      **Project** “Visual Persuasion in a Transforming Europe (PolarVis)” funded by the FWF Austrian Science Fund as part of the CHANSE initiative. **Principal Investigator** (€ 294,000) with Dr. Nicola Righetti (Co-PI).
- 09/22 – 09/26      **COST Action** “What are Opinions? Integrating Theory and Methods for Automatically Analyzing Opinionated Communication (OPINION)”, funded by the European Union (EU). **Co-Applicant and member.**
- 12/21 – 11/24      **Scientific Network** “Potentials and Challenges of Computational Communication Science Using the Example of Online Protest”, funded by the German Research Foundation (DFG). **Member.**
- 11/21 – 10/24      **Project** “Emotional Misinformation”, funded by the Vienna Science and Technology Fund (WWTF) (175,000 €). **Co-Principal Investigator** with Dr. Hannah Metzler (PI, Vienna Complexity Science Hub) and Prof. Dr. David Garcia (Co-PI, TU Graz).
- 10/20 – 09/23      **Project** “OPTED – Observatory for Political Texts in European Democracies”, funded by EU Horizon 2020 (30,000 €). **Co-Principal Investigator** of WP3 “Journalistic, Mass-Mediated Political Texts” with Prof. Dr. Hajo Boomgaarden (University of Vienna).
- 01/18 – 12/21      **Project** “Translocal Networks: Public Spheres on the Social Web”, funded by the German Research Foundation (DFG) as part of the collaborative research center “Re-Figuration of Spaces” at TU Berlin (683,000 € in total; 268,300 € for the University of Münster). **Principal Investigator** with Prof Dr. Barbara Pfetsch (FU Berlin).

- 10/16 – 03/21 **Research Training Group** “Trust and Communication in a Digitized World”, funded by the German Research Foundation (DFG). **Co-Principal Investigator**. Principal Investigator: Prof Dr. Bernd Blöbaum (University of Münster).
- 04/18 – 10/18 **Working Group** “Computational Social Science: Theories, Methodology, and Research Ethics”, funded by the Center for Advanced Internet Studies (CAIS) in Bochum, Germany (10,000 €). **Principal Investigator** with PD Dr. Stephanie Geise (University of Münster, Germany) and Prof. Dr. Uwe Engel (University of Bremen).
- 09/13 – 12/16 **Young Scholars Network** „Temporal Dynamics and Process Models in Media Effects Research“, funded by the German Research Foundation (DFG). **Fellow**. Principal Investigators: Prof. Dr. Jens Vogelgesang (University of Hohenheim) and Prof. Dr. Michael Scharkow (Zeppelin University Friedrichshafen).
- 07/15 – 03/16 **Project** “Scientific Analysis of Citizen and Online Dialogs on the Quality of Life in Germany”, funded by the German Federal Government (178,000 €). **Principal Investigator** with Prof. Dr. Barbara Pfetsch (FU Berlin, Germany) and Alexander Stumpfegger (CID GmbH, Germany).
- 06/11 – 06/17 **Project** “Political Agenda-building under the Conditions of a Hybrid Media System”, funded by the German and Swiss Research Foundations (DFG and SNF). Principal Investigators: Prof. Dr. Barbara Pfetsch (FU Berlin, Germany) and Prof. Dr. Silke Adam (University of Bern, Switzerland). **Team Member**, acquisition of the work package “Automated Content Analysis” (55,000 €).

## PUBLICATIONS

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### Journal Articles

Stoltenberg, D., Pfetsch, B., Keinert, A., & **Waldherr, A.** (2022). Who are they and where? Insights into the social and spatial dimensions of imagined audiences from a mobile diary study of Twitter users. *Social Media + Society*, 8(3).  
<https://doi.org/10.1177/20563051221123032>

Balluff, P., Lind, F., Boomgaarden, H. G., & **Waldherr, A.** (2022). Mapping the European media landscape: Meteor, a curated and community-coded inventory of news sources. *European Journal of Communication*, online first.  
<https://doi.org/10.1177/02673231221112006>

Maier, D., Baden, C., Stoltenberg, D., De Vries-Kedem, M., & **Waldherr, A.** (2022). Machine translation vs. multilingual dictionaries: Assessing two strategies for the topic modeling of multilingual text collections. *Communication Methods and Measures*, 16(1), 19-38.  
<https://doi.org/10.1080/19312458.2021.1955845>

**Waldherr, A.**, Hilbert, M., & González-Bailón, S. (2021). Worlds of agents: Prospects of agent-based modeling for communication research. *Communication Methods and Measures*, 15(4), 243-254. <https://doi.org/10.1080/19312458.2021.1986478>

**Waldherr, A.**, Geise, S., Mahrt, M., Katzenbach, C., & Nürnbergk, C. (2021). Toward a stronger theoretical grounding of computational communication science: How macro frameworks shape our research agendas. *Computational Communication Research* 3(2), 152-179. <https://doi.org/10.5117/CCR2021.02.002.WALD>

Pfetsch, B., Maier, D., Stoltenberg, D., **Waldherr, A.**, Kligler-Vilenchik, N., de Vries, M. (2021). Topographies of local public spheres on social media. *International Journal of Communication*, 15, 3645–3670. <https://ijoc.org/index.php/ijoc/article/view/17253>

**Waldherr, A.**, Klinger, U., & Pfetsch, B. (2021). Spaces, places, and geographies of public spheres: Exploring dimensions of the spatial turn. *Media and Communication*, 9(3), 1-4. <https://doi.org/10.17645/mac.v9i3.4679>

Kligler-Vilenchik, N., Stoltenberg, D., de Vries Kedem, M., Gur-Ze'ev, H., **Waldherr, A.** & Pfetsch, B. (2020). Tweeting in the time of coronavirus: How social media use and academic research evolve during times of global uncertainty. *Social Media + Society*, 6(3). <https://doi.org/10.1177/2056305120948258>

**Waldherr, A.**, Geise, S. & Katzenbach, C. (2019). Because technology matters: Theorizing interdependencies in computational communication science with actor–network theory. *International Journal of Communication*, 13, 3955-3975.

**Waldherr, A.** & Wettstein, M. (2019). Bridging the gaps: Using agent-based modeling to reconcile data and theory in computational communication science. *International Journal of Communication*, 13, 3976-3999.

Hilbert, M., Barnett, G., Blumenstock, J., Contractor, N., Diesner, J., Frey, S., González-Bailón, S., Lamberson, P. J., Pan, J., Peng, T. Q., Shen, C., Smaldino, P. E., van Atteveldt, W., **Waldherr, A.**, Zhan, J. & Zhu, J. J. H. (2019). Computational communication science: A methodological catalyzer for a maturing discipline. *International Journal of Communication*, 13, 3912-3934.

Stoltenberg, D., Maier, D. & **Waldherr, A.** (2019). Community detection in online networks of civil society: Theoretical guide and empirical assessment. *Social Networks*, 59, 120-133. <https://doi.org/10.1016/j.socnet.2019.07.001>

**Waldherr, A.** (2019). Messinstrumente und Sinnkonstruktionen: Methoden als Antreiber und Taktgeber der Kommunikationswissenschaft [Measurement instruments and constructions of meaning: Methods as drivers and impulse generators of communication science]. *Medien & Zeit*, 34(1), 40-47.

**Waldherr, A.**, Wehden, L.-O., Stoltenberg, D., Miltner, P., Ostner, S. & Pfetsch, B. (2019). Induktive Kategorienbildung in der Inhaltsanalyse: Kombination automatischer und manueller Verfahren [Inductive category development in content analysis: Combination of automated and manual methods]. *Forum Qualitative Sozialforschung*, 20(1). <https://doi.org/10.17169/fqs-20.1.3058>

Schmid-Petri, H., Adam, S., Reber, U., Häussler, T., Maier, D., Miltner, P., Pfetsch, B. & **Waldherr, A.** (2018). Homophily and prestige: An assessment of their relative strength to explain link formation in the online climate change debate. *Social Networks*, 55, 47-54. <https://doi.org/10.1016/j.socnet.2018.05.001>

Maier, D., **Waldherr, A.**, Miltner, P., Wiedemann, G., Niekler, A., Keinert, A., Pfetsch, B., Heyer, G., Reber, U., Häussler, T., Schmid-Petri, H. & Adam, S. (2018). Applying LDA topic modeling in communication research: Toward a valid and reliable methodology. *Communication Methods and Measures*, 12(2-3), 93-118. <https://doi.org/10.1080/19312458.2018.1430754>

Maier, D., **Waldherr, A.**, Miltner, P., Jähnichen, P. & Pfetsch, B. (2018). Exploring issues in a networked public sphere: Combining hyperlink network analysis and topic modeling. *Social Science Computer Review*, 36, 3-20. <https://doi.org/10.1177/0894439317690337>

Strippel, C., Bock, A., Katzenbach, C., Mahrt, M., Merten, L., Nuernbergk, C., Pentzold, C., Puschmann, C. & **Waldherr, A.** (2018). Die Zukunft der Kommunikationswissenschaft ist schon da, sie ist nur ungleich verteilt. Eine Kollektivreplik [The future of communication science is already here, it is just unequally distributed. A collective reply]. *Publizistik*, 63(1), 11-27. <https://doi.org/10.1007/s11616-017-0398-5>

**Waldherr, A.**, Maier, D., Miltner, P. & Günther, E. (2017). Big data, big noise: The challenge of finding issue networks on the Web. *Social Science Computer Review*, 35, 427-443. <https://doi.org/10.1177/0894439316643050>

**Waldherr, A.** (2017). Öffentlichkeit als komplexes System: Theoretisches Konzept und methodische Konsequenzen [The public sphere as a complex system: Theoretical framework and methodological consequences]. *Medien & Kommunikationswissenschaft*, 65(3), 534-549. <https://doi.org/10.5771/1615-634X-2017-3-534>

Pfetsch, B., Maier, D., Miltner, P. & **Waldherr, A.** (2016). Challenger networks of food policy on the Internet: A comparative study of structures and coalitions in Germany, the UK, the US, and Switzerland. *International Journal of E-Politics*, 7(1), 16-36. <https://doi.org/10.4018/IJEP.2016010102>

**Waldherr, A.** (2014). Emergence of news waves: A social simulation approach. *Journal of Communication*, 64, 852-873. <https://doi.org/10.1111/jcom.12117>

**Waldherr, A.** & Wijermans, N. (2013). Communicating social simulation models to sceptical minds. *Journal of Artificial Societies and Social Simulation*, 16(4), 13. <https://doi.org/10.18564/jasss.2247>

Miltner, P., Maier, D., Pfetsch, B. & **Waldherr, A.** (2013). Online networks of civil society actors as an indicator for politicization? A hyperlink analysis for the food safety issue in Germany. *Catalan Journal of Communication & Cultural Studies*, 5, 201-220. [https://doi.org/10.1386/cjcs.5.2.201\\_1](https://doi.org/10.1386/cjcs.5.2.201_1)

Miltner, P. & **Waldherr, A.** (2013). Themenzyklus der Kriegsberichterstattung: Ein Phasenmodell [Life cycle of war coverage: A conceptual model]. *Publizistik*, 58, 267-287. <https://doi.org/10.1007/s11616-013-0180-2>

**Waldherr, A.** & Muck, P. M. (2011). Towards an integrative approach to communication styles: The Interpersonal Circumplex and the Five-Factor Theory of personality as frames of reference. *Communications*, 36, 1-27. <https://doi.org/10.1515/COMM.2011.001>

### Books

**Waldherr, A.** (2012). *Die Dynamik der Medienaufmerksamkeit. Ein Simulationsmodell* [Dynamics of media attention: A simulation model]. Baden-Baden: Nomos. <https://doi.org/10.5771/9783845236889>

**Waldherr, A.** (2008). *Kommunikationsstile von Führungskräften: Eine strukturelle Analyse des Kommunikationsverhaltens in Führungssituationen* [Leaders' communication styles: A structural analysis of communication behavior in leadership situations]. Marburg: Tectum.

### Edited Volumes

**Waldherr, A.**, Hilbert, M., & González-Bailón, S. (2021). Agent-based modeling for communication research. *Communication Methods and Measures*, 15(4).

**Waldherr, A.**, Klinger, U. & Pfetsch, B. (Eds.) (2021). Spaces, places, and geographies of public spheres. Special Issue. *Media and Communication* 9(3).

Gehrau, V., **Waldherr, A.** & Scholl, A. (Eds.) (2020). *Integration durch Kommunikation: Jahrbuch der Publizistik- und Kommunikationswissenschaft 2019*. [Integration through communication: Yearbook of Media and Communication Studies 2019] Münster: Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft.

Grimme, C., Preuss, M., Takes, F. W. & **Waldherr, A.** (Eds.) (2020). Disinformation in open online media. First multidisciplinary international symposium, MISDOOM 2019. *Lecture Notes in Computer Science*. Cham, CH: Springer.

Strippel, C., Bock, A., Katzenbach, C., Mahrt, M., Merten, L., Nuernbergk, C., Pentzold, C. & **Waldherr, A.** (Eds.) (2018). Theoretische und methodische Antworten der Kommunikationswissenschaft auf Herausforderungen der Digitalisierung [Theoretical and methodological answers of communication science to the challenges of digitalization]. Special Issue in *Publizistik* 63(4). <https://doi.org/10.1007/s11616-018-0462-9>

## Chapters

- Freiling, I. & **Waldherr, A.** (2021). Why trusting whom? Motivated reasoning and trust in the process of information evaluation. In B. Blöbaum (Ed.), *Trust and communication: Findings and implications of trust research* (pp. 83-97). Springer.
- Geise, S. & **Waldherr, A.** (2021). Computational communication science: Lessons from working group sessions with experts of an emerging research field. In U. Engel, A. Quan-Haase, S. X. Liu, Su & L. Lyberg (Eds.), *Handbook of computational social science. Volume 1: Theory, case studies and ethics* (pp. 66-82). Routledge.  
<https://doi.org/10.4324/9781003024583>
- Maier, D., Stoltenberg, D., Pfetsch, B., & **Waldherr, A.** (2021). Talking to my community elsewhere: Bringing together networked public spheres and the concept of translocal communities. In A. Million, C. Haid, I. Castillo Ulloa, & N. Baur (Eds.), *Spatial transformations: Kaleidoscopic perspectives on the refiguration of spaces* (pp. 181-191). Routledge. <https://doi.org/10.4324/9781003036159-17>
- Stoltenberg, D., Pfetsch, B., & **Waldherr, A.** (2021). Geolokalisierung digitaler Daten. In A. J. Heinrich, S. Marguin, A. Million, J. Stollmann (Eds.), *Handbuch qualitative und visuelle Methoden der Raumforschung* (pp. 445-456). Bielefeld: Transcript/UTB.
- Scholl, A., Gehrau, V. & **Waldherr, A.** (2020). Integration durch Kommunikation: Einige einführende Überlegungen [Integration through communication: Introductory considerations]. In Gehrau, V., **Waldherr, A.** & Scholl, A. (Eds.) (2020). *Integration durch Kommunikation: Jahrbuch der Publizistik- und Kommunikationswissenschaft 2019*. Münster: Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft.  
<https://doi.org/10.21241/ssoar.69162>
- Waldherr A.** (2018). Modelling issue-attention dynamics in a hybrid media system. In P. Vasterman (ed.), *From media hype to Twitter storm: News explosions and their impact on issues, crises, and public opinion* (pp. 291-311). Amsterdam: Amsterdam University Press.
- Waldherr, A.** & Wijermans, N. (2017). Modelling the role of social media at street protests. In Q. Jager, R. Verbrugge, A. Flache, G. de Roo, L. Hoogduin & C. Hemelrijk (eds.) *Advances in Social Simulation 2015. Advances in Intelligent Systems and Computing*, vol. 528. (pp. 445-449). Springer, Cham. [https://doi.org/10.1007/978-3-319-47253-9\\_41](https://doi.org/10.1007/978-3-319-47253-9_41)
- Waldherr, A.**, Heyer, G., Jähnichen, P., Niekler, A. & Wiedemann, G. (2016). Mining big data with computational methods. In G. Vowe & P. Henn (eds.), *Political communication in the online world: Theoretical approaches and research designs* (pp. 201-217). New York, NY: Routledge.
- Maier, D., **Waldherr, A.**, Miltner, P., Schmid-Petri, H., Häussler, T. & Adam, S. (2014). Stichprobenziehung aus dem Netz – Wie man themenspezifische Online-Inhalte erfassen kann [Drawing web samples – How to collect issue-specific content online]. In K. Sommer, M. Wettstein, W. Wirth, & J. Matthes (eds.), *Automatisierung in der Inhaltsanalyse* (pp. 90-110). Köln: von Halem.
- Waldherr, A.** (2014). AMMA: Agent-based model of the media arena (version 1). *CoMSES Computational Model Library*. Retrieved from: <http://www.openabm.org/model/4110>



**Waldherr, A.** (2012). The mass media as actors in innovation systems: Their relevance for high-tech policy decisions. In J. Bauer, A. Lang & V. Schneider (eds.): *Innovation policy and governance in high-technology industries: The complexity of coordination* (pp. 77-100). Berlin: Springer. [https://doi.org/10.1007/978-3-642-12563-8\\_4](https://doi.org/10.1007/978-3-642-12563-8_4)

**Waldherr, A. & Bachl, M.** (2011). Simulation gesellschaftlicher Medienwirkungsprozesse am Beispiel der Schweigespirale [Simulation of media effects on the social level – Example of the spiral of silence]. In M. Suckfüll, H. Schramm & C. Wunsch (eds.): *Rezeption und Wirkung in zeitlicher Perspektive* (pp. 235-252). Baden-Baden: Nomos. <https://doi.org/10.5771/9783845231310>

Thiemens, J. & **Waldherr, A.** (2009). Bewertungsdimensionen einer Kanzlerkandidatin – Eine quantitative Inhaltsanalyse der Berichterstattung über Angela Merkel im Bundestagswahlkampf 2005 [Assessment criteria of a female chancellor candidate – A quantitative content analysis of coverage on Angela Merkel in the national election campaign 2005]. In W. Rodoniklis, Wasilios & D. Zander (Hrsg.): *Düsseldorfer Forum Politische Kommunikation 2008. Schriftenreihe DFPK – Band 4* (pp. 158-182). Münster: Lit.

**Waldherr, A.** (2008). Gatekeeper, Diskursproduzenten und Agenda-Setter – Medien als Akteure in Innovationsprozessen [Gatekeepers, discourse producers and agenda-setters – Media as actors in innovation processes]. In B. Pfetsch & S. Adam (eds.): *Massenmedien als politische Akteure – Konzepte und Analysen* (pp. 171-195). Wiesbaden: VS. [https://doi.org/10.1007/978-3-531-90843-4\\_8](https://doi.org/10.1007/978-3-531-90843-4_8)

**Waldherr, A.** (2008). Innovationsdiskurse in Medien und Politik – Theoretisches Rahmenkonzept für eine vergleichende Analyse von Themenkarrieren [Innovation discourses in media and politics – Theoretical framework for a comparative analysis of issue careers]. In E. Aydin, M. Begenat, C. Michalek, J. Schemann & I. Stefes (eds.): *Düsseldorfer Forum Politische Kommunikation 2007. Schriftenreihe DFPK – Band 3* (pp. 291-312). Münster: Lit.

## PRESENTATIONS

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### Peer-Reviewed Conference Presentations

Arnold, C., Langmann, K., Stecker, M., & **Waldherr, A.** (2022). Issue-specific dynamics of social media hypes: Investigating the influence of Tweets' topics on user participation and the issue dynamics of bursting online discussions on Twitter. Paper presented at the 9th Conference of the European Communication Research Association (ECREA), October 19-22, Aarhus, Denmark.

Kakavand, A., Righetti, N., & **Waldherr, A.** (2022). Different platforms, same community? Comparing far-right networks on social media. Paper presented at the 9th Conference of the European Communication Research Association (ECREA), October 19-22, Aarhus, Denmark.

Balluff, P., Boomgaarden, H., **Waldherr, A.** (2022). Automatically finding actors in texts. A performance review of multilingual named entity recognition tools for news texts. Paper presented at the 72nd Annual Conference of the International Communication Association (ICA), May 26-30, Paris, France.

Hartanti, L. P., Bauer, T. A., & **Waldherr, A.** (2022). Social media influencers in Indonesia: A curriculum of non-formal education of media literacy. Paper presented at the 72nd Annual Conference of the International Communication Association (ICA), May 26-30, Paris, France.

Keinert, A., Pfetsch, B., Stoltenberg, D., & **Waldherr, A.** (2022). The spatial and social dimensions of imagined audiences: A mobile diary study of Twitter users. Paper presented at the 72nd Annual Conference of the International Communication Association (ICA), May 26-30, Paris, France.

Kulichkina, A., Righetti, N., & **Waldherr, A.** (2022). Pro-democracy and pro-regime coordination in Russian protests: The role of social media. Paper presented at the 72nd Annual Conference of the International Communication Association (ICA), May 26-30, Paris, France.

Mpadanes, M. & **Waldherr, A.** (2022). Information privacy and the use of eHealth services during the COVID-19 pandemic: Testing an extended privacy calculus model with survey data from the Austrian Corona Panel Project. Paper presented at the 72nd Annual Conference of the International Communication Association (ICA), May 26-30, Paris, France.

**Waldherr, A.**, Stoltenberg, D., Maier, D., Keinert, A., & Pfetsch, B. (2022). Translocal networked public spheres: Spatial arrangements of metropolitan Twitter. Paper presented at the 72nd Annual Conference of the International Communication Association (ICA), May 26-30, Paris, France.

**Waldherr, A.**, Gallagher, R., Righetti, N., Klinger, K., Stoltenberg, D., Kumar, S., Ridley, D., Foucault Welles, B. (2021). Waves of attention to racial injustice on social media: Cases of extrajudicial police killings in the United States. Paper presented at the 71st Annual Conference of the International Communication Association (ICA), May 27-31 (Virtual Conference).

Balluff, P., Lind, F., **Waldherr, A.** & Boomgaarden, H. (2021). Classifying journalism: Towards a taxonomy of journalism. Paper presented at the 71st Annual Conference of the International Communication Association (ICA), May 27-31 (Virtual Conference).

Maier, D., Baden, C., Stoltenberg, D., de Vries, M. & **Waldherr, A.** (2020). Assessing strategies for topic modeling of multilingual text collections in communication research. Paper presented at the 70th Annual Conference of the International Communication Association (ICA), May 21-25 (Virtual Conference).

**Waldherr, A.**, Geise, S., Mahrt, M., Katzenbach, C. & Nürnbergk, C. (2019). Towards a stronger theoretical grounding of computational communication science: A review of tried and tested social theories. Paper presented at the 69th Annual Conference of the International Communication Association (ICA), May 24-28, Washington, DC.

Pfetsch, B., Maier, D., Stoltenberg, D., **Waldherr, A.**, Kligler-Vilenchik, N. & de Vries, M. (2019). How local is the digital public sphere on Twitter? A comparison between Jerusalem and Berlin. Paper presented at the 69th Annual Conference of the International Communication Association (ICA), May 24-28, Washington, DC.

**Waldherr A.**, Stoltenberg D., Maier D. & Pfetsch B. (2018). Translocalization of public spheres in a digitized world. Paper presented at the 7th Conference of the European Communication Research and Education Association (ECREA), October 31-November 3, Lugano.

**Waldherr, A.** & Guo, L. (2018). Wave of opportunity: Frame networks of political challengers and news media during a food scandal. Paper presented at the 68th Annual Conference of the International Communication Association (ICA), May 24-28, Prague.

**Waldherr, A.** & Bachl, M. (2018). The contingencies of silent majorities: Revisiting the spiral of silence with agent-based modeling. Paper presented at the 68th Annual Conference of the International Communication Association (ICA), May 24-28, Prague.

Stoltenberg, D., Maier, D. & **Waldherr, A.** (2018). Community detection in online networks of civil society: Theoretical guide and empirical assessment. Paper presented at the 68th Annual Conference of the International Communication Association (ICA), May 24-28, Prague. [**Best Paper Award of the Computational Methods Interest Group of the ICA**]

Hilbert, M., Barnett, G., Blumenstock, J., Diesner, J., Frey, S., Lamberson, PJ, Shen, C., Smaldino, P., **Waldherr, A.**, Zhan, J., Zhu, J. (2018). Computational communication science: A methodological catalyzer for a maturing discipline. Paper presented at the 68th Annual Conference of the International Communication Association (ICA), May 24-28, Prague.

**Waldherr, A.**, Stoltenberg, D., Maier, D. & Pfetsch, B. (2017). Translokalisierung von Öffentlichkeiten in einer digitalisierten Welt: Ein Theoriebeitrag. [Translocalization of public spheres in a digitized world: A theoretical contribution] Vortrag im Rahmen der Jahrestagung der DGPK-Fachgruppe Digitale Kommunikation, 08.-10. November 2017, Stuttgart.

**Waldherr, A.** & Schmid-Petri, H. (2017). Authority, hub, or broker: Structural roles of gatekeeping in online issue networks. Paper presented at the 67th Annual Conference of the International Communication Association (ICA), May 25-29, San Diego, CA.

Maier, D., **Waldherr, A.**, Miltner, P., Wiedemann, G., Niekler, A., Heyer, G., Keinert, A.M.C., Pfetsch, B., Häussler, T., Reber, U., Schmid-Petri, H., & Adam, S. (2017). Applying LDA topic modeling in communication research: Towards a valid and reliable methodology. Paper presented at the 67th Annual Conference of the International Communication Association (ICA), May 25-29, San Diego, CA.

Schmid-Petri, H., Häussler, T., Adam, S., Reber, U., Maier, D., Miltner, P., Pfetsch, B., & **Waldherr, A.** (2017). Homophily versus prestige: Adding topics to the explanation of link formation on the Web. Paper presented at the 67th Annual Conference of the International Communication Association (ICA), May 25-29, San Diego, CA.

**Waldherr, A.** (2017). Vernetzung und Themendynamik in digitalen Öffentlichkeiten: Ein agentenbasiertes Simulationsexperiment [Networks and issue dynamics in digital public spheres: An agent-based simulation experiment]. Vortrag im Rahmen der Jahrestagung der DGPK, 30. März - 1. April, Düsseldorf.

Pfetsch, B., Maier, D., Miltner, P., & **Waldherr, A.** (2016). About frankenfood and salmonella: Framing food safety in US news media and online issue networks. Paper presented at the 66th Annual Conference of the International Communication Association (ICA), June 9-13, Fukuoka, Japan.

**Waldherr, A.** (2015). Vernetzung, Dynamik, Selbstorganisation: Öffentlichkeit als komplexes, adaptives System [Networks, dynamics, self-organization: The complex, adaptive system of the public sphere]. Vortrag im Rahmen der Tagung „Medienkommunikation zwischen Komplexität und Vereinfachung“ der DGPK-Fachgruppen Digitale Kommunikation und Soziologie der Medienkommunikation, 5.-7. November, Berlin.

**Waldherr, A.** & Wijermans, N. (2015). Modeling the role of social media at street protests. Paper accepted for presentation at the Social Simulation Conference of the European Social Simulation Association (ESSA), September 14-18, Groningen, Netherlands.

Maier, D., **Waldherr, A.**, Miltner, P., Jähnichen, P., & Pfetsch, B. (2015). Exploring issues in a networked public sphere: Combining hyperlink network analysis and topic modeling. Paper presented at the 65th Annual Conference of the International Communication Association (ICA), May 21-25, San Juan, Puerto Rico.

Pfetsch, B., Maier, D., Miltner, P. & **Waldherr, A.** (2015). Connection for salience – Old and new media in agenda building on the Internet. A comparison between German and US American issue networks. Paper presented at the Annual Meeting of the Swiss Association for Communication and Media Studies (SGKM), March 13 – 14, Bern, Switzerland.

Pfetsch, B., Miltner, P. & **Waldherr, A.** (2015). Alte und neue Dynamiken des Agenda-Building in der Online-Welt – Ein Beitrag zur Theoriebildung der politischen Kommunikationsforschung [Old and new dynamics of agenda-building in the online world – A theoretical contribution to political communication research]. Vortrag im Rahmen der Tagung „Politische Online-Kommunikation“ der DGPK-Fachgruppe Kommunikation und Politik, 20. – 21. Februar, Düsseldorf.

**Waldherr, A.** (2014). Agentenbasierte Modellierung und Computersimulation: Perspektiven für die Kommunikationswissenschaft. [Agent-based modeling and computer simulation: Perspectives for communication research] Vortrag im Rahmen der Tagung „Methodische Herausforderungen und Innovationen in der Kommunikations- und Medienforschung“ der DGPK-Fachgruppe Methoden, 9.-11. Oktober, München.

Pfetsch, B., Maier, D., Miltner, P. & **Waldherr, A.** (2014). Connection for salience – Old and new media in agenda-building on the Internet. Paper presented at the ECREA 5<sup>th</sup> European Communication Conference, November 12-15, Lisbon, Portugal.

**Waldherr, A.** & Schmid-Petri, H. (2014). Integrieren journalistische Onlinemedien die Netzwerköffentlichkeit? Deutschland und die USA im Vergleich [Do journalistic online media integrate the networked public sphere? Comparing Germany and the US]. Vortrag im Rahmen der Jahrestagung der Deutschen Gesellschaft für Publizistik und Kommunikationswissenschaft (DGPK), 28. – 30. Mai, Passau.

Miltner, P., Maier, D., **Waldherr, A.** & B. Pfetsch (2014). Wie flüchtig ist digitale Öffentlichkeit? Empirische Befunde zur Stabilität und Dynamik themenspezifischer Öffentlichkeiten im Internet [How fleeting is the digital public sphere? Empirical results on stability and dynamics of issue-specific public spheres]. Vortrag im Rahmen der Jahrestagung der Deutschen Gesellschaft für Publizistik und Kommunikationswissenschaft (DGPK), 28. – 30. Mai, Passau.

**Waldherr, A.**, Maier, D., Miltner, P. & Günther, E. (2014). Big data, big noise: The challenge of extracting issue networks from the Web. Paper presented at the 64<sup>th</sup> Annual Conference of the International Communication Association (ICA), May 22-26, Seattle, WA, USA.

Pfetsch, B., Maier, D., Miltner, P. & **Waldherr, A.** (2013). Online networks of challengers in food policy: A comparative study of structures and coalitions in Germany, UK, US and Switzerland. Paper presented at the 7<sup>th</sup> ECPR General Conference, September 4-7, Bordeaux, France.

Schmid-Petri, H., Häussler, T., Adam, S., **Waldherr, A.**, Miltner, P., Pfetsch, B. & Bennett, W. L. (2012). Selecting and framing in a digital age: Is online communication of challengers abandoning mass media's logic? Paper presented at the ECREA 4<sup>th</sup> European Communication Conference, October 24 – 27, Istanbul, Turkey.

Schmid-Petri, H., **Waldherr, A.**, Häussler, T., Miltner, P. & Adam, S. (2012). Was passiert zu einem Thema im Netz? Die Herausforderung, dynamische Online-Netzwerke und deren Diskurse zu erfassen. [What happens to an issue on the Web? The challenge of tracing dynamic networks online and their discourses] Vortrag im Rahmen der Tagung „Fortschritte in der Inhaltsanalyse“ der DGPK-Fachgruppe Methoden, 27.-29. September, Zürich.

**Waldherr, A.** (2012). The emergence of issue careers: A social simulation approach. Paper presented at the 62<sup>nd</sup> Annual Conference of the International Communication Association (ICA), May 24-28, Phoenix, AZ, USA.

Miltner, P. & **Waldherr, A.** (2012). Themenzyklus der Kriegsberichterstattung – Ein Phasenmodell [Life cycle of war coverage: A conceptual model]. Vortrag im Rahmen der Jahrestagung der Deutschen Gesellschaft für Publizistik und Kommunikationswissenschaft (DGPK), 16. – 18. Mai, Berlin.

**Waldherr, A.** (2010). Agenda-setting and agenda-hiding in ICT discourses. Poster presented at the ECREA 3<sup>rd</sup> European Communication Conference, October 10-15, Hamburg, Germany.

**Waldherr, A. & Bachl, M.** (2010). Simulation gesellschaftlicher Medienwirkungsprozesse am Beispiel der Schweigespirale [Simulation of media effects on the social level – Example of the spiral of silence]. Vortrag im Rahmen der Tagung „Rezeption und Wirkung in zeitlicher Perspektive“ der DGpuK-Fachgruppe Rezeptions- und Wirkungsforschung, 29.-30. Januar, Berlin.

**Waldherr, A.** (2009). Media attention dynamics in complex societies: A conceptual framework. Paper presented at the 59<sup>th</sup> Annual Conference of the International Communication Association (ICA), May 21-25, Chicago, IL, USA.

**Waldherr, A.** (2009). Komplexität und Dynamik moderner Mediendiskurse: Theoretisches Konzept und methodische Konsequenzen [Complexity and dynamics of modern media discourses: Theoretical framework and methodological consequences]. Vortrag im Rahmen der Jahrestagung der Deutschen Gesellschaft für Publizistik und Kommunikationswissenschaft (DGpuK), 29. April – 1. Mai, Bremen.

Thiemens, J. & **Waldherr, A.** (2008). Bewertungsdimensionen einer Kanzlerkandidatin – Eine quantitative Inhaltsanalyse der Berichterstattung über Angela Merkel im Bundestags-wahlkampf 2005 [Assessment criteria of a female chancellor candidate – A quantitative content analysis of coverage on Angela Merkel in the national election campaign 2005]. Vortrag auf dem 4. Düsseldorfer Forum für Politische Kommunikation, 5.-6. April, Düsseldorf.

**Waldherr, A.** (2007). Innovation policy and the mass media: The relevance of public discourse for high-tech-policy decisions. Vortrag im Rahmen der Frühjahrstagung des Arbeitskreises „Politik und Technik“ der Deutschen Vereinigung für Politische Wissenschaft (DVPW), 22.-23. Juni, Meersburg.

**Waldherr, A.** (2007). Innovationskarrieren in Medien und Politik: Forschungsdesign für eine vergleichende Untersuchung von Themenkarrieren [Innovation life cycles in media and politics: Research design for a comparative analysis of issue careers]. Poster im Rahmen des 3. Düsseldorfer Forums für Politische Kommunikation, 13.-15. April, Düsseldorf.

Muck, P. M., **Waldherr, A.** & Sawatzky, A. (2006). Konsequenzen des Kommunikationsverhaltens von Führungskräften [Consequences of leaders' communication behavior]. Poster im Rahmen des 45. Kongresses der Deutschen Gesellschaft für Psychologie, 17.-21. September, Nürnberg.

Muck, P. M., **Waldherr, A.** & Sawatzky, A. (2006). A structural analysis of leaders' communication behaviour. Paper presented at the 13<sup>th</sup> European Conference on Personality, July 22-26, Athens, Greece.

Muck, P. M. & **Waldherr, A.** (2006). Is managerial communication consistent across leadership tasks? Paper presented at the 26<sup>th</sup> International Congress of Applied Psychology, July 16-21, Athens, Greece.

## Invited Presentations and Lectures

**Waldherr, A., Stoltenberg, D., Maier, D., Keinert, A., & Pfetsch B. (2022).** Translocal networked public spheres: Spatial arrangements of metropolitan Twitter. Invited presentation at the Methods Conference „Relational Spatial Methods“, CRC 1265 Re-Figuration of Spaces, September 16, Berlin.

**Waldherr, A. (2022).** Digitized public spheres: Affordances and public dynamics. Invited presentation at the Workshop "Democracy in the Digital Constellation: Interdisciplinary Perspectives“, Weizenbaum Institute for the Networked Society, September 6, Berlin.

**Waldherr, A. (2022).** Räumliche Diskursmuster und Raumvorstellungen: Eine Kombination von Inhalts-, Netzwerk-, Raum- und Befragungsdaten. Eingeladener Vortrag zum Workshop „Methodenvielfalt in der praxistheoretischen Kommunikationsforschung: Von (digitaler) Ethnographie bis Netzwerkforschung“ im Rahmen der Jahrestagung der Deutschen Gesellschaft für Publizistik und Kommunikationswissenschaft (DGPuK), 22. Februar, Berlin.

**Waldherr, A. (2022).** Die Dynamik öffentlicher Aufmerksamkeit: Öffentlichkeit als komplexes System. Eingeladener Vortrag, 18. Januar, Fachhochschule Coburg.

**Waldherr, A. (2021).** Waves of attention to racial injustice on social media. Invited Lecture, November 25, University of Bern.

Stoltenberg, D., Pfetsch, B. & **Waldherr, A. (2020).** *Ortsspuren in digitalen Daten: Strategien zur Geolokalisierung von Tweets* [Location traces in digital data: Strategies for geolocating tweets] 40. Kongress der Deutschen Gesellschaft für Soziologie, September 14-19, virtual conference.

**Waldherr, A. (2019).** Introduction into Agent-Based Modeling with NetLogo. Invited Workshop for the International Summer School “Social Media as a Digital Agora for Political Arguments, Opinions, and Ideas?”, July 15-16, Duisburg.

**Waldherr, A. (2019).** Messinstrumente und Sinnkonstruktionen: Methoden als Antreiber und Taktgeber der Kommunikationswissenschaft [Measurement instruments and constructions of meaning: Methods as drivers and impulse generators of communication science]. Eingeladener Vortrag im Rahmen der DGPuK-Jahrestagung, Sonderfenster Kommunikationsgeschichte, May 8-10, Münster.

**Waldherr, A. (2019).** Computational social science. Invited lecture at the Center for Nonlinear Science, April 9, University of Münster.

**Waldherr, A., Stoltenberg, D., Maier, D., Pfetsch, B. (2019).** Translocal networks: Public sphere in the social web. Invited lecture at Hebrew University, March 25, Jerusalem.

Kligler-Vilenchik, N., de Vries, M., Pfetsch, B. & **Waldherr, A. (2019).** Co-constructing space in urban public spheres: Twitter use in Jerusalem. Paper presented at the 8th Eurasian Peace Science Conference, 14 - 15 January, Jerusalem, Israel.

**Waldherr, A. (2018).** Advancing social theory with agent-based modeling: Examples from public sphere research. Invited presentation at the “Digital Traces Workshop“, November 8-10, University of Bremen.

**Waldherr, A.** (2018). Entgrenzungsphänomene in digitalisierten Öffentlichkeiten und ihre Bedeutung für die Kommunikationswissenschaft. [Phenomena of boundary dissolution and their relevance for communication science]. Keynote im Rahmen der Jahrestagung der DGPK-Fachgruppe „Soziologie der Medienkommunikation“, 10.-12. Oktober, Rostock.

**Waldherr, A.** (2018). Vernetzung und Entgrenzung in digitalisierten Öffentlichkeiten und in der Öffentlichkeitstheorie [Interconnectedness and the dissolution of boundaries in digitized public spheres and in theories on the public sphere]. Eingeladener Vortrag bei den Vitznauer Gesprächen, 20. -22. September, Vitznau, Schweiz.

**Waldherr, A.** (2018). News waves and opinion spirals: Studying the public sphere as a complex system. Invited lecture at the 24th Systems Science Colloquium, February 7, University of Osnabrück.

**Waldherr, A.** (2018). Politische Diskurse in digitalisierten Öffentlichkeiten. [Political discourses in digitized public spheres] Eingeladener Vortrag beim Studientag der Ludwig-Windthorst-Stiftung, 12. Januar, Münster.

**Waldherr, A.** (2017). Bringing theory to data with agent-based modeling. Invited presentation at the Hans-Bredow-Institute for Media Research, September 4, Hamburg.

**Waldherr, A.** (2016). Supervise the machine, or not? Approaches to grasping networked issue debates online. Invited presentation at the conference “Big political data: Why and how?” at Warwick Q-Step Centre, University of Warwick, December 2<sup>nd</sup>, Coventry, UK.

**Waldherr, A.** (2016). Modeling attention dynamics in the networked public sphere. Invited presentation at the Lazer Lab, Network Science Institute, Northeastern University July 12, Boston, MA.

**Waldherr, A.** (2016). Discussing food safety in online issue networks: Empirical results and methodological prospects. Invited seminar at the Quello Center, Department of Media & Information, Michigan State University, May 4, East Lansing, MI.

**Waldherr, A.** (2016). Discussing food safety in online issue networks: Empirical results and methodological prospects. Invited presentation at the Conference “Genes, Germs & GMOs: Social Media Effects on Scientific Controversies” of the Division of Emerging Media Studies, Boston University, April 20, Boston, MA.

Pfetsch, B., Maier, D., Miltner, P., **Waldherr, A.** (2015). Online Issue Netzwerke als Opportunitätsstrukturen von NGO Mobilisierung im Bereich Food Safety [Online issue networks as opportunity structures of NGO mobilization on food safety]. Vortrag im Rahmen des Kolloquiums “Politik von unten”, 14. Dezember, Technische Universität Berlin.

**Waldherr, A.** (2012). Modellierung medialer Themenzyklen mit NetLogo [Modeling media attention cycles with NetLogo]. Invited lecture at the Department of Politics and Public Administration, July 20, Universität Konstanz.

Häussler, T., Schmid-Petri, H. & **Waldherr, A.** (2012). Gut gecrawlt ist noch nicht gescrapet: Die Erfassung von Online-Akteursnetzwerken [Crawling well does not account for scraping: Collecting actor networks online]. Invited presentation at the workshop „Methodological Innovations in Internet Research – Interdisciplinary Approaches“, July 12-13, LMU München.



Pfetsch, B. & **Waldherr, A.** (2012). Online-Netzwerke von Außenseiterakteuren und ihr Einfluss auf die klassische Medienagenda [Challengers' online networks and their impact on the traditional media agenda]. Invited presentation at the joint workshop of the DFG research group "Political Communication in the Online World" and the DFG research area "Mediatized Worlds", July 5, Universität Düsseldorf.

### **Other Conference and Workshop Presentations**

Maier, D., Stoltenberg, D., Pfetsch, B. & **Waldherr, A.** (2019): Translocal networks in urban Twitter spheres: A case study from Berlin. Paper presented at the First International Conference of the SFB 1265, February 20-22, Berlin.

Geise, S. & **Waldherr A.** (2018). Revisiting actor-network-theory for computational communication science. Poster auf der Preconference „Neue Theorien (in) der Kommunikationswissenschaft“ im Rahmen der DGPK-Jahrestagung, 9.-11. Mai, Mannheim.

Pfetsch B., Maier, D., Miltner, P., & **Waldherr, A.** (2017). Diffusion models in online agenda-setting: Theoretical models and empirical assessment. Presentation at the 67th Annual Conference of the International Communication Association (ICA), May 25-29, San Diego, CA.

Miltner, P., Pfetsch, B. Maier, D. & **Waldherr, A.** (2014). Grasping issues in a networked public sphere: Strategies to draw and prepare random samples of heterogeneous web sources. Paper presented at the conference "Political Context Matters: Content Analysis in the Social Sciences", October 10-11, Mannheim.

Pfetsch, B., Adam, S., Häussler, T., **Waldherr, A.**, Schmid-Petri, H., Miltner, P. & Maier, D. (2013): From challengers' online communication to political agendas: First results and directions for future research. Paper presented at the workshop "Political online communication in an international perspective: Approaches, methods & findings", September 11-12, Berlin.

**Waldherr, A.** (2012): Modeling public spheres on the Internet. Paper presented at the 8th simsoc@work workshop, March 20-22, Koblenz.

**Waldherr, A.**, Häussler, T., Miltner, P., Pfetsch, B., Schmid-Petri, H., Adam, S., Streibl, W. & Bennett, W. L. (2012). Comparing apples and oranges: The challenge of measuring online-offline discourse dynamics. Paper presented at the 62<sup>nd</sup> Annual Conference of the International Communication Association (ICA), May 24-28, Phoenix, AZ, USA.

**Waldherr, A.** (2011): The emergence of issue careers: Agent-based simulation and empirical validation. Paper presented at the 7th simsoc@work workshop, September 28-30, Koblenz.

**Waldherr, A.** (2009): Media attention dynamics: Agent-based model and simulation. Paper presented at the Simulation Workshop for Social Sciences, October 22-23, Hamburg.

**Waldherr, A.** (2009): Dynamics of media attention: Implementation and validation of an agent-based model. Paper presented at the Simulation Workshop, April 23-25, Koblenz.

**Waldherr, A.** (2008): Dynamics of media attention: An agent-based model. Paper presented at the ZUMA Advanced Simulation Workshop, 8.-11. April, Koblenz.

**Waldherr, A.** (2008). The complexity of mass mediated risk discourses: A conceptual framework for studying issue attention to science and technology. Paper presented at the 11<sup>th</sup> International Conference of the International Society for the Study of European Ideas (ISSEI), July 28-August 2, Helsinki, Finland.

**Waldherr, A.** (2008): Dynamics of media attention: Comparing model and media content. Paper presented at the Simulation Workshop for Social Sciences, September 26-27, Hamburg.

**Waldherr, A.** (2006): Framing von Innovationen: Ein öffentlichkeitssoziologisches Verständnis des Innovationsbegriffs [Framing of innovations: A sociological public sphere perspective on the concept of innovation]. Vortrag beim 2. Innovations-Workshop der BDS-Regionalgruppe Stuttgart, 21. September, Hohenheim.