

Jana Lasser | Publication list

See also <https://orcid.org/0000-0002-4274-4580>. Shared first authorships are marked with a †.

Publications (peer reviewed)– chronological

- [1] C. Beaume, L. Goehring, **J. Lasser**, Hidden fluid dynamics of dry salt lakes, *Physics Today*, <https://doi.org/10.1063/pt.xgqy.ushr> (2024).
- [2] A. Urman, I. Smirnov, **J. Lasser**, The right to audit and the asymmetry of power in computational social science research, *EPJ data science*, <https://doi.org/10.1140/epjds/s13688-024-00454-5> (2024).
- [3] **J. Lasser**, S.T. Aroyehun, F. Carrella, A. Simchon, D. Garcia, S. Lewandowsky, From Alternative conceptions of honesty to alternative facts in communications by U.S. politicians, *Nature Human Behaviour*, <https://doi.org/10.1038/s41562-023-01691-w> (2023).
- [4] H. Lin, **J. Lasser**, S. Lewandowsky, R. Cole, A. Gully, D. Rand, G. Pennycook, High level of agreement across different news domain quality ratings, *PNAS nexus*, <https://doi.org/10.1093/pnasnexus/pgad286> (2023).
- [5] J. Pfeffer, A. Mooseder, **J. Lasser**, L. Hammer, O. Stritzel, D. Garcia, This Sample seems to be good enough! Assessing Coverage and Temporal Reliability of Twitter's Academic API, *ICWSM*, <https://doi.org/10.1609/icwsm.v17i1.22182> (2023).
- [6] J. Pfeffer, D. Matter, K. Jaidka, O. Varol, A. Mashhadi, **J. Lasser**, D. Assenmacher, S. Wu, D. Yang, C. Brantner, D. M. Romero, J. Otterbacher, C. Schwemmer, K. Joseph, D. Garcia, F. Morstatter, Just another day on Twitter: A complete 24 hours of Twitter data, *ICWSM*, *accepted*, <https://doi.org/10.1609/icwsm.v17i1.22215> (2023).
- [7] **J. Lasser**, J. M. Nield, M. Ernst, V. Karius, Giles F.J. Wiggs, M. Threadgold, C. Beaume, L. Goehring, Salt polygons and porous media convection, *PRX*, <https://doi.org/10.1103/PhysRevX.13.011025> (2023).
- [8] **J. Lasser**, J. Schneider, T. Lösch, R. Röwert, T. Heck, C. Bluemel, M. Neufend, I. Steinhardt, S. Skupien, MapOSR - A mapping review dataset of empirical studies on Open Science, *F1000 data note*, <http://dx.doi.org/10.12688/f1000research.121665.1> (2022)
- [9] **J. Lasser**, S.T. Aroyehun, A. Simchon, F. Carrella, D. Garcia, S. Lewandowsky, Social media sharing of low quality news sources by political elites, *PNAS nexus*, <https://doi.org/10.1093/pnasnexus/pgac186> (2022).
- [10] M. Kaleta†, **J. Lasser**†, E. Dervic, L. Yang, J. Sorger, R. Lo sardo, S. Thurner, A. Kautzky-Willer, P. Klimek, Stress-testing the Resilience of the Austrian Healthcare System Using Agent-Based Simulation, *Nature Communications*, <https://doi.org/10.1038/s41467-022-31766-7> (2022).
- [11] **J. Lasser**, T. Hell, D. Garcia, Assessment of the effectiveness of Omicron transmission mitigation strategies for European universities using an agent-based network model, *Journal of Clinical Infectious Diseases*, <https://doi.org/10.1093/cid/ciac340> (2022).
- [12] **J. Lasser**, J. Sorger, L. Richter, S. Thurner, D. Schmid, P. Klimek, Assessing the impact of SARS-CoV-2 prevention measures in schools by means of agent-based simulations calibrated to cluster tracing data, *Nature Communications*, <https://doi.org/10.1038/s41467-022-28170-6> (2022).
- [13] I. Kafedjiska, L. Heckmann, V. Pires, P. Saxena, **J. Lasser**, The Mental Health Crisis among Doctoral Researchers – Findings and Best Practices, *Zeitschrift für Beratung und Studium* <https://bit.ly/phd-mental-health-crisis> (2022).

- [14] **J. Lasser**, J. Zuber, J. Sorger, E. Dervic, K. Ledebur, S.D. Lindner, E. Klager, M. Kletečka-Pulker, H. Willschke, K. Stangl, S. Stadtmann, C. Haslinger, P. Klimek, T. Wochele-Thoma, Agent-based simulations for protecting nursing homes with prevention and vaccination strategies, *Royal Society Interface* <https://doi.org/10.1098/rsif.2021.0608> (2021).
- [15] **J. Lasser**, C. Matzhold, C. Egger-Danner, B. Fuerst-Waltl, F. Steininger, T. Wittek, P. Klimek, Integrating diverse data sources to predict disease risk in dairy cattle – a machine learning approach, *Journal of Animal Science*, <https://doi.org/10.1093/jas/skab294> (2021).
- [16] C. Matzhold, **J. Lasser**, C. Egger-Danner, B. Fuerst-Waltl, T. Wittek, J. Kofler, F. Steininger, P. Klimek, A systematic approach to analyse the impact of farm-profiles on bovine health, *Scientific Reports*, <https://doi.org/10.1038/s41598-021-00469-2> (2021).
- [17] **J. Lasser**, L. Bultema, A. Jahn, M. Löffler, V. Minneker, C. van Scherpenberg, Power abuse and anonymous accusations in academia – Perspectives from early career researchers and recommendations for improvement, *Beiträge zur Hochschulforschung*, http://bit.ly/power_abuse_and_anonymous_accusations (2021).
- [18] **J. Lasser**[†], M. Ernst[†], L. Goehring, Stability of convection in dry salt lakes, *Journal of Fluid Mechanics*, <https://doi.org/10.1017/jfm.2021.225> (2021).
- [19] J. S. Yarrington[†], **J. Lasser**[†], D. Garcia, J. H. Vargas, D. D. Couto, T. Marafon, M. G. Craske, A. N. Niles, Impact of the COVID-19 Pandemic on Mental Health among 157,213 Americans, *Journal of Affective Disorders*, <https://doi.org/10.1016/j.jad.2021.02.056> (2021).
- [20] **J. Lasser**, L. Bultema, A. Jahn, M. Löffler, V. minneker, C. van Scherpenberg, Power abuse and anonymous accusations in academia – the point of view of early career researchers and recommendations for improvements, *Beiträge zur Hochschulforschung*, *accepted* (2021).
- [21] **J. Lasser**, D. Manik, A. Silbersdorff, B. Säfken, T. Kneib, A case study based teaching curriculum for data literacy, *Teaching Statistics*, <https://doi.org/10.1111/test.12243> (2020).
- [22] **J. Lasser**, V. Ahne, G. Heiler, P. Klimek, H. Metzler, T. Reisch, M. Sprenger, S. Thurner, J. Sorger, Complexity, transparency and time pressure: practical insights into science communication in times of crisis, *Journal of Science Communication*, <https://doi.org/10.22323/2.19050801> (2020).
- [23] **J. Lasser**, J. M. Nield, L. Goehring, Surface and subsurface characterisation of salt pans expressing polygonal patterns, *Earth System Science Data*, <https://doi.org/10.5194/essd-12-2881-2020> (2020).
- [24] A. Desvars-Larrive et al. A structured open dataset of government interventions in response to COVID-19, *Nature Scientific Data*, <https://doi.org/10.1038/s41597-020-00609-9> (2020).
- [25] M. Pellert, **J. Lasser**, H. Metzler, D. Garcia, Dashboard of sentiment in Austrian social media during COVID-19, *Frontiers in Big Data*, <https://doi.org/10.3389/fdata.2020.00032> (2020).
- [26] **J. Lasser** and E. Katifori, NET: a new framework for the vectorization and examination of network data, *Source Code for Biology and Medicine*, DOI: doi.org/10.1186/s13029-017-0064-3 (2017)
- [27] H. Ronellenfitsch, **J. Lasser**, D. Daly, and E. Katifori, Topological Phenotypes Constitute a New Dimension in the Phenotypic Space of Leaf Venation Networks, *PLoS Computational Biology*, DOI: <https://doi.org/10.1371/journal.pcbi.1004680> (2015)

Publications (not peer reviewed) – chronological

Preprints

- [28] Paul E. Smaldino, Adam Russell, Matthew Zefferman, Judith Donath, Jacob Foster, Douglas Guilbeault, Martin Hilbert, Elizabeth A. Hobson, Kristina Lerman, Helena Miton, Cody Moser, **Jana**

Lasser, Sonja Schmer-Galunder, Jacob N Shapiro, Qiankun Zhong, Dan Patt, Information Architectures: A Framework for Understanding Socio-Technical Systems, *SocArXiv*, <https://doi.org/10.31235/osf.io/c7vrw> (2024).

- [29] Segun Taofeek Aroyehun, Almog Simchon, Fabio Carrella, Jana Lasser, Stephan Lewandowsky, David Garcia, Computational analysis of US Congressional speeches reveals a shift from evidence to intuition, *arXiv*, <https://doi.org/10.48550/arXiv.2405.07323> (2024).
- [30] Ahmadou Wagne, Elen Le Foll, Florentine Frantz, **J. Lasser**, Giving the outrage a name – how researchers are challenging employment conditions under the hashtags #IchBinHanna and #IchBinReyhan, *SocArXiv*, <https://doi.org/10.31235/osf.io/4y863> (2024).
- [31] **J. Lasser**[†], A. Herderich[†], J. Garland, S.T. Aroyehun, D. Garcia, M. Galesic, Collective moderation of hate, toxicity, and extremity in online discussions, *arXiv*, <https://arxiv.org/abs/2303.00357> (2023).
- [32] D. Garcia, M. Pellert, **J. Lasser**, H. Metzler, Social media emotion macroscopes reflect emotional experiences in society at large, <https://arxiv.org/abs/2107.13236> (2021).
- [33] A. Chakraborty, J. Chen, A. Desvars-Larrive, P. Klimek, E. Flores Tames, D. Garcia, L. Horstmeyer, M. Kaleta, **J. Lasser**, J. Reddish, B. Pinior, J. Wachs, P. Turchin, Analyzing Covid-19 Data using SIRD Models, <https://doi.org/10.1101/2020.05.28.20115527> (2020).

Invited commentaries

- [34] D. Leising, S. Täuber, **J. Lasser**, Susanne Täuber, Maßnahmen gegen Machtmissbrauch in Hochschule und Forschung, in *Perspektiven für Hanna: Dauerstellen für Daueraufgaben in der Wissenschaft, Materialien aus Hochschule und Forschung* 128, 179–184
URL: <https://www.wbv.de/shop/openaccess-download/I73576> (2024)
- [35] A. Bauer, S. Brackertz, A. El Miniawy, R. Klesse, **J. Lasser**, M. Längle, L. Lehmann, M. Schröder, A. Sich, S. Tautz, Workshop: Alternative Übungskonzepte, *PhyDid B - Didaktik der Physik - Beiträge zur DPG-Frühjahrstagung* 1, URL: <https://ojs.dpg-physik.de/index.php/phydid-b/article/view/1387> (2023)
- [36] **J. Lasser**, Susanne Täuber, Machtmissbrauch in der Wissenschaft: Problembeschreibung und Lösungsstrategien aus der Perspektive der Personalentwicklung, *Personal in Hochschule und Wissenschaft entwickeln* 30(2) 103-107 URL: <https://www.bit.ly/3PkoaFD> (2023)
- [37] **J. Lasser**, T. Hell, Simulation der Ausbreitung der SARS-CoV-2-Variante Omikron an einer Universität, *Mitteilungen der Deutschen Mathematiker-Vereinigung* 30(2) 103-107 DOI: <https://doi.org/10.1515/dmvm-2022-0036> (2022)
- [38] **J. Lasser**, Creating an executable paper is a journey through Open Science, *Communications Physics* 3(1) 11-5 DOI: <https://doi.org/10.1038/s42005-020-00403-4> (2020)
- [39] C. Wu, B. Regler, M. Vögele, L. Einhorn, S. Elizarova, S. Förste, J. Shenolikar, **J. Lasser**, Perceptions of publication pressure in the Max Planck Society, *Nature Human Behaviour* 3(10), 1029-1030 DOI: <https://doi.org/10.1038/s41562-019-0728-x> (2020)

Theses

- [40] *Computational Modelling of Complex Social Systems*, Habilitation, under review, URL: <https://janalasser.at/habilitation.pdf> (2023)
- [41] *Geophysical Pattern Formation of Salt Playa*, PhD thesis, URL: <http://hdl.handle.net/11858/00-1735-0000-002E-E5DB-2> (2019)
- [42] *Network analysis and hidden phenotypes in large biological datasets*, Master's thesis URL: <http://hdl.handle.net/11858/00-001M-0000-002A-C409-0> (2015)
- [43] *Computational analysis framework for vascular network images*, Bachelor's thesis, RL: <http://hdl.handle.net/11858/00-001M-0000-002B-2D8A-3> (2013)

Published surveys, white papers and policy briefs

- [44] G. Kismihók, B. Cahill, S. Gauttier, J. Metcalfe, S.T. Mol, D. McCashin; **J. Lasser**, M. Güneş, M. Schroijsen, M. Grund, K. Levecque, S. Guthrie, K. Wac, J. Dahlgaard, M. Nadim Adi, C. Kling, Researcher Mental Health and Well-being Manifesto, *white paper*, <https://zenodo.org/record/5559806#.YXgDr-pBwUF>, (2021)
- [45] **J. Lasser**, L. Richter, D. Schmid, J. Sorger, S. Thurner, P. Klimek, Effektivität von Präventionsmaßnahmen für SARS-CoV2 und seine transmissibleren Varianten für eine nachhaltige Öffnung der Schulen, *policy brief*, http://bit.ly/school_covid_policy, (2021)
- [46] **J. Lasser**, et al., Questionnaire for the assessment of the situation of doctoral researchers, DOI: <https://doi.org/10.17605/OSF.IO/FVZ48>
- [47] L. Olsthoorn et al., PhDnet Survey report 2019, DOI: <https://doi.org/10.17617/2.3243876> (2020)
- [48] B. Regler et al., PhDnet Survey report 2018, DOI: <https://doi.org/10.17617/2.3052826> (2019)
- [49] **J. Lasser**, Power abuse and conflict resolution, link: <https://www.phdnet.mpg.de/news/2018/power-abuse-statement> (2018)

Software

- [50] **J. Lasser**, Agent based simulation of the spread of COVID-19 in confined spaces, link: <https://pypi.org/project/scseirx/> (2020)
- [51] **J. Lasser**, NET: a framework for the vectorization and examination of network data, link: https://github.com/JanaLasser/network_extraction/releases/tag/v1.0.0 (2017)

Blog posts and public outreach

- [52] Leila Dedia, Sophia Hohmann, **Jana Lasser**, Bitte nachschärfen, , Jan Martin Wiarda's Blog, link: <https://www.jmwiarda.de/https-www.jmwiarda.de-2024-05-28-bitte-nachschaerfen/>
- [53] F. Carrella, S. Lewandowsky, **J. Lasser**, S.T. Aroyehun, Beyond Honesty: Understanding Facts and Beliefs in U.S. Political Discourse, *Nature Social Sciences Community*, link: <https://socialsciences.nature.com/posts/beyond-honesty-understanding-facts-and-beliefs-in-u-s-political-discourse> (2023)
- [54] S. Lewandowsky, **J. Lasser**, Donald Trump's truth: why liars might sometimes be considered honest – new research, *The Conversation*, link: <https://theconversation.com/donald-trumps-truth-why-liars-might-sometimes-be-considered-honest-new-research-214283> (2023)
- [55] **J. Lasser**, S.T. Aroyehun, S. Lewandowsky, Could a shift in society's conception of 'honesty' explain the spread of misinformation in the USA?, link: *Nature Research Briefing*, DOI: <https://doi.org/10.1038/s41562-023-01692-9> (2023)
- [56] S. Lewandowsky, **J. Lasser**, US politicians tweet far more misinformation than those in the UK and Germany – new research, *The Conversation*, link: <https://theconversation.com/us-politicians-tweet-far-more-misinformation-than-those-in-the-uk-and-germany-new-research-191029> (2022)
- [57] **J. Lasser**, #IchbinHanna Analyse von Reichweite und Dynamik auf Twitter Ratgeber Arbeitsplatz Hochschule und Forschung der GEW, link: https://www.gew.de/fileadmin/media/publikationen/hv/Hochschule_und_Forschung/Broschueren_und_Ratgeber/IchbinHanna.pdf (2021)
- [58] C. van Scherpenberg, L. Bultema, A. Jahn, M. Löffler, V. Minneker, **J. Lasser**, Manifestations of power abuse in academia and how to prevent them *Elephant in the Lab*, DOI: <https://doi.org/10.5281/ZENODO.4596397> (2021)

- [59] **J. Lasser** What is an executable paper? *Sozialwissenschaftliche Methodenberatung*, URL: <https://sozmethode.hypotheses.org/1045> (2020)
- [60] M. Pellert and **J. Lasser** Austria Social Media Emotions Dashboard, *COVID-19 special research story*, URL: http://www.mpellert.at/covid19_monitor_austria/ (2020)
- [61] **J. Lasser**, Whether fear or boredom: Youper can help you cope with strong emotions tim times of crisis, *COVID-19 special research story*, URL: http://bit.ly/covid_emotions (2020)
- [62] J. Sorger, E. Dervic, M. Kaleta and **J. Lasser**, Healthcare info point, *COVID-19 special research story*, URL: <https://csh.ac.at/covid19/healthcare/> (2020)
- [63] A. Silbersdorff, B. Säfken, **J. Lasser**, Wer hat Angst vor Schlangen?, *Blog Hochschulforum Digitalisierung* URL: http://bit.ly/HFD_blog3 (2020)
- [64] **J. Lasser** From "Star Wars" to Geophysics, guest article in the *Lindau Nobel Blog*, URL: http://bit.ly/lindau_blog (2019).
- [65] **J. Lasser**, 1 Jahr "Daten Lesen Lernen" an der Universität" Göttingen, *Blog Hochschulforum Digitalisierung*, URL: http://bit.ly/HFD_blog2 (2019)
- [66] **J. Lasser**, In Richtung Lehre 4.0: Data Literacy an der Uni Göttingen, *Blog Hochschulforum Digitalisierung*, URL: http://bit.ly/HFD_blog1 (2019)
- [67] Y. Peterse, **J. Lasser**, G. Caglio, K. Stoltmann, D. Rusiecka und M. Schmidt, Addressing the Mental Health Crisis among Doctoral Researchers, *PLoS ECR Community Blog and Elephant in the Lab*, DOI: doi.org/10.5281/zenodo.1402423 (2018)