Jana Lasser | Publication list

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Most important publications

- **J. Lasser**, Segun Taofeek Aroyehun, Fabio Carrella, Almog Simchon, David Garcia, Stephan Lewandowsky, New conceptions of truth foster misinformation in online public political discourse, link: `http://arxiv.org/abs/2208.10814` (2022)

- **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)

- 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)

- **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)

- **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)

Peer reviewed – chronological

[1] Juergen Pfeffer, Angelina Mooseder, **Jana Lasser**, Luca Hammer, Oliver Stritzel, David Garcia, This Sample seems to be good enough! Assessing Coverage and Temporal Reliability of Twitter's Academic API, *ICWSM*, accepted, link: `https://arxiv.org/abs/2204.02290` (2022)

[2] **Jana Lasser**, Jürgen Schneider, Thomas Lösch, Ronny Röwert, Tamara Heck, Clemens Bluemel, Maike Neufend, Isabel Steinhardt, Stefan Skupien, MapOSR - A mapping review dataset of empirical studies on Open Science, link: `http://dx.doi.org/10.12688/f1000research.121665.1` (2022)

[3] **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)

[4] 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)

[5] **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)

[6] **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)

[7] 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)

[8] **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)

[9] **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)

[10] 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)

[11] **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* URL: `http://bit.ly/power_abuse_and_anonymous_accusations` (2021)

[12] **J. Lasser**[†], M. Ernst[†], L. Goehring, Stability of convection in dry salt lakes, *Journal of Fluid Mechanics* DOI: `https://doi.org/10.1017/jfm.2021.225` (2021)

[13] 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*, DOI: `https://doi.org/10.1016/j.jad.2021.02.056` (2021).

[14] **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)

[15] **J. Lasser**, D. Manik, A. Silbersdorff, B. Säfken, T. Kneib, A case study based teaching curriculum for data literacy, *Teaching Statistics*, DOI: `https://doi.org/10.1111/test.12243` (2020)

[16] **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*, DOI: `https://doi.org/10.22323/2.19050801` (2020)

[17] **J. Lasser**, J. M. Nield, L. Goehring, Surface and subsurface characterisation of salt pans expressing polygonal patterns, *Earth System Science Data*, DOI: `https://doi.org/10.5194/essd-12-2881-2020` (2020)

[18] A. Desvars-Larrive et al. A structured open dataset of government interventions in response to COVID-19, *Nature Scientific Data*, DOI: `https://doi.org/10.1038/s41597-020-00609-9` (2020)

[19] M. Pellert, **J. Lasser**, H. Metzler, D. Garcia, Dashboard of sentiment in Austrian social media during COVID-19, *Frontiers in Big Data*, link: `https://doi.org/10.3389/fdata.2020.00032` (2020)

[20] **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)

[21] 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)

Not peer reviewed – chronological

Preprints

[22] **J. Lasser**, Segun Taofeek Aroyehun, Fabio Carrella, Almog Simchon, David Garcia, Stephan Lewandowsky, New conceptions of truth foster misinformation in online public political discourse, link: `http://arxiv.org/abs/2208.10814` (2022), *under review at Nature Human Behaviour*.

[23] D. Garcia, M. Pellert, **J. Lasser**, H. Metzler, Social media emotion macroscopes reflect emotional experiences in society at large, link: `https://arxiv.org/abs/2107.13236` (2021)

[24] 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 , DOI: `https://doi.org/10.1101/2020.05.28.20115527` (2020)

[25] **J. Lasser**, J. M. Nield, M. Ernst, V. Karius, L. Goehring, Salt polygons are caused by convection, arXiv link: `https://arxiv.org/abs/1902.03600v2` (2020), *under review at Physical Review X*.

Invited commentaries

[26] **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)

[27] **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)

[28] 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/0.1038/s41562-019-0728-x` (2020)

Theses

[29] *Geophysical Pattern Formation of Salt Playa*, PhD thesis, URL: `http://hdl.handle.net/11858/00-1735-0000-002E-E5DB-2` (2019)

[30] *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)

[31] *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

[32] G. Kismihók, B. Cahill, S. Gauttier, J. Metcalfe, S.T. Mol, D. McCashin; **J. Lasser**, M. Güneş, M. Schroijen, 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)

[33] **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)

[34] **J. Lasser**, et al., Questionnaire for the assessment of the situation of doctoral researchers, DOI: `https://doi.org/10.17605/OSF.IO/FVZ48`

[35] L. Olsthoorn et al., PhDnet Survey report 2019, DOI: `https://doi.org/10.17617/2.3243876` (2020)

[36] B. Regler et al., PhDnet Survey report 2018, DOI: `https://doi.org/10.17617/2.3052826` (2019)

[37] **J. Lasser**, Power abuse and conflict resolution, link: `https://www.phdnet.mpg.de/news/2018/power-abuse-statement` (2018)

Software

[38] **J. Lasser**, Agent based simulation of the spread of COVID-19 in confined spaces, link: `https://pypi.org/project/scseirx/` (2020)

[39] **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

[40] **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)

[41] 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*, DOU: `https://doi.org/10.5281/ZENODO.4596397` (2021)

[42] **J. Lasser** What is an executable paper? *Sozialwissenschaftliche Methodenberatung*, URL: `https://sozmethode.hypotheses.org/1045` (2020)

[43] M. Pellert and **J. Lasser** Austria Social Media Emotions Dashboard, *COVID-19 special research story*, URL: `http://www.mpellert.at/covid19_monitor_austria/` (2020)

[44] **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)

[45] 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)

[46] A. Silbersdorff, B. Säfken, **J. Lasser**, Wer hat Angst vor Schlangen?, *Blog Hochschulforum Digitalisierung* URL: `http://bit.ly/HFD_blog3` (2020)

[47] **J. Lasser** From "Star Wars" to Geophysics, guest *Lindau Nobel Blog*, URL: `http://bit.ly/lindau_blog` (2019).

[48] **J. Lasser**, 1 Jahr "Daten Lesen Lernen" an der Universität" Göttingen, *Blog Hochschulforum Digitalisierung*, URL: `http://bit.ly/HFD_blog2` (2019)

[49] **J. Lasser**, In Richtung Lehre 4.0: Data Literacy an der Uni Göttingen, *Blog Hochschulforum Digitalisierung*, URL: `http://bit.ly/HFD_blog1` (2019)

[50] 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)