

# Jana Lasser | Publication list

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Peer reviewed publications and preprints published independently of my PhD advisor are marked with a ♦. Shared first authorships are marked with a †.

## Peer reviewed

- [1] ♦ **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)
- [2] ♦ **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)
- [3] ♦ 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)
- [4] ♦ **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)
- [5] ♦ **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)
- [6] ♦ 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)
- [7] ♦ **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](http://bit.ly/power_abuse_and_anonymous_accusations) (2021)
- [8] **J. Lasser**<sup>†</sup>, M. Ernst<sup>†</sup>, L. Goehring, Stability of convection in dry salt lakes, *Journal of Fluid Mechanics* DOI: <https://doi.org/10.1017/jfm.2021.225> (2021)
- [9] ♦ J. S. Yarrington<sup>†</sup>, **J. Lasser**<sup>†</sup>, 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).
- [10] ♦ **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)
- [11] ♦ **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)
- [12] ♦ **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)

- [13] **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)
- [14] ♦ 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)
- [15] ♦ 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)
- [16] ♦ **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](https://doi.org/10.1186/s13029-017-0064-3) (2017)
- [17] ♦ H. Ronellenfitch, **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

### Preprints

- [18] ♦ M. Kaleta<sup>†</sup>, **J. Lasser**<sup>†</sup>, 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, link: <https://arxiv.org/abs/2203.07746> (2022)
- [19] ♦ 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)
- [20] ♦ 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)
- [21] **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)

### Invited commentaries

- [22] **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)
- [23] 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

- [24] *Geophysical Pattern Formation of Salt Playa*, PhD thesis, URL: <http://hdl.handle.net/11858/00-1735-0000-002E-E5DB-2> (2019)
- [25] *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)
- [26] *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

- [27] 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)
- [28] **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](http://bit.ly/school_covid_policy), (2021)
- [29] **J. Lasser**, et al., Questionnaire for the assessment of the situation of doctoral researchers, DOI: <https://doi.org/10.17605/OSF.IO/FVZ48>
- [30] L. Olsthoorn et al., PhDnet Survey report 2019, DOI: <https://doi.org/10.17617/2.3243876> (2020)
- [31] B. Regler et al., PhDnet Survey report 2018, DOI: <https://doi.org/10.17617/2.3052826> (2019)
- [32] **J. Lasser**, Power abuse and conflict resolution, link: <https://www.phdnet.mpg.de/news/2018/power-abuse-statement> (2018)

## Software

- [33] **J. Lasser**, Agent based simulation of the spread of COVID-19 in confined spaces, link: <https://pypi.org/project/scseirx/> (2020)
- [34] **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](https://github.com/JanaLasser/network_extraction/releases/tag/v1.0.0) (2017)

## Blog posts and public outreach

- [35] **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](https://www.gew.de/fileadmin/media/publikationen/hv/Hochschule_und_Forschung/Broschueren_und_Ratgeber/IchbinHanna.pdf) (2021)
- [36] 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)
- [37] **J. Lasser** What is an executable paper? *Sozialwissenschaftliche Methodenberatung*, URL: <https://sozmethode.hypotheses.org/1045> (2020)
- [38] M. Pellert and **J. Lasser** Austria Social Media Emotions Dashboard, *COVID-19 special research story*, URL: [http://www.mpellert.at/covid19\\_monitor\\_austria/](http://www.mpellert.at/covid19_monitor_austria/) (2020)
- [39] **J. Lasser**, Whether fear or boredom: Youper can help you cope with strong emotions times of crisis, *COVID-19 special research story*, URL: [http://bit.ly/covid\\_emotions](http://bit.ly/covid_emotions) (2020)
- [40] 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)
- [41] A. Silbersdorff, B. Säfken, **J. Lasser**, Wer hat Angst vor Schlangen?, *Blog Hochschulforum Digitalisierung* URL: [http://bit.ly/HFD\\_blog3](http://bit.ly/HFD_blog3) (2020)
- [42] **J. Lasser** From "Star Wars" to Geophysics, guest *Lindau Nobel Blog*, URL: [http://bit.ly/lindau\\_blog](http://bit.ly/lindau_blog) (2019).
- [43] **J. Lasser**, 1 Jahr "Daten Lesen Lernen" an der Universität" Göttingen, *Blog Hochschulforum Digitalisierung*, URL: [http://bit.ly/HFD\\_blog2](http://bit.ly/HFD_blog2) (2019)

- [44] **J. Lasser**, In Richtung Lehre 4.0: Data Literacy an der Uni Göttingen, *Blog Hochschulforum Digitalisierung*, URL: [http://bit.ly/HFD\\_blog1](http://bit.ly/HFD_blog1) (2019)
- [45] 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](https://doi.org/10.5281/zenodo.1402423) (2018)