

## Curriculum Vitae

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|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name            | <b>Prof. Dr. Viola Priesemann</b>                                                                                                                                                                          |
| Affiliation     | Max-Planck-Institute for Dynamics and Self-Organization<br>and Georg-August-University Göttingen                                                                                                           |
| Address         | Am Fassberg 17, 37077 Göttingen, Germany                                                                                                                                                                   |
| Website         | <a href="http://www.viola-priesemann.de">www.viola-priesemann.de</a>                                                                                                                                       |
| Wikipedia       | <a href="https://de.wikipedia.org/wiki/Viola_Priesemann">https://de.wikipedia.org/wiki/Viola_Priesemann</a>                                                                                                |
| Google Scholar  | <a href="https://scholar.google.de/citations?user=5oK8Ek4AAAAJ">https://scholar.google.de/citations?user=5oK8Ek4AAAAJ</a>                                                                                  |
| ACADEMIC CAREER |                                                                                                                                                                                                            |
| 2022 -          | <b>Professor (W3)</b> , Department of Physics, University of Göttingen                                                                                                                                     |
| 2020 -          | <b>Board Member</b> , Campus Institute for Data Science                                                                                                                                                    |
| 2017 -          | <b>Max Planck Research Group Leader</b><br>Max Planck Institute for Dynamics and Self-Organization<br>Göttingen, Germany                                                                                   |
| 2017            | <b>Guest Researcher</b> at the Ernst Strüngmann Institute<br>Frankfurt, Germany                                                                                                                            |
| 2016/2017       | <b>Parental leave</b>                                                                                                                                                                                      |
| 2016 - 2017     | Start-Up Phase of the Max-Planck-Research-Group                                                                                                                                                            |
| 2014 - 2016     | <b>Bernstein Fellow</b><br>Bernstein Center for Computational Neuroscience, Göttingen<br>& Max Planck Institute for Dynamics and Self-Organization<br>Göttingen, Germany                                   |
| 2013 - 2014     | <b>PostDoc</b> with Theo Geisel<br><b>Max Planck Institute for Dynamics and Self-Organization</b><br>Göttingen, Germany                                                                                    |
| 2009 - 2013     | <b>PhD Student</b><br><b>Max Planck Institute for Brain Research</b> , Frankfurt<br>and <b>Frankfurt Institute for Advanced Studies (FIAS)</b> , Germany<br>Supervisors: Gilles Laurent and Jochen Triesch |
| 2009            | Research Project on Insect Olfaction with Gilles Laurent<br><b>Caltech, Pasadena, CA, USA</b>                                                                                                              |
| 2008 - 2009     | Research Project on Neural Networks with Christian Machens<br><b>École Normale Supérieure, Paris, France</b>                                                                                               |

## EDUCATION

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| 23.09.2013  | <b>PhD in Physics</b><br>“Subsampling in Critical Systems”<br>Faculty of Physics, Goethe University Frankfurt, Germany                                                                  |
| 2010        | <b>Summer Course (8 weeks) “Neural Systems and Behavior”</b><br><b>Marine Biology Laboratories, Woods Hole, MA, USA</b><br>funded by Thomas B. Grave and Elizabeth F. Grave Scholarship |
| 2001 - 2008 | <b>Diploma (Master) in Physics</b><br>Technical University Darmstadt, Germany                                                                                                           |
| 2006 - 2007 | <b>Diploma Thesis</b><br>Max Planck Institute for Brain Research, Frankfurt, Germany<br>Department of Wolf Singer                                                                       |
| 2004 - 2005 | <b>Erasmus Exchange Student</b> , full academic year, Lisbon, Portugal<br>Universidade Nova de Lisboa and<br>Instituto Superior Técnico de Lisboa                                       |

## GRANTS & SCHOLARSHIPS (SELECTION)

|                 |                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025 -          | <b>Principle Investigator</b> , SFB 1690 "Disease Mechanisms and Functional Restoration of Sensory and Motor Systems"                                                           |
| 2024 -          | <b>Principle Investigator</b> , RTG 2906 "Curiosity"                                                                                                                            |
| 2024 -          | <b>Principle Investigator</b><br>SPP 2205 "Evolutionary Optim. of Neuronal Processing"                                                                                          |
| 2022 - 2025     | <b>Main Coordinator and PI</b> , BMBF Project "infoXpand"                                                                                                                       |
| 2022 - 2025     | <b>Section Coordinator and PI</b> , BMBF Project "RESPINOW"                                                                                                                     |
| 2022 -          | <b>Principal Investigator</b> in the SFB 1528<br>"Cognition of Interaction"                                                                                                     |
| 2022 -          | <b>Principal Investigator</b> in the SFB 1286<br>"Quantitative Synaptology"                                                                                                     |
| 2020 - 2024     | <b>Principle Investigator</b><br>SPP 2205 "Evolutionary Optim. of Neuronal Processing"                                                                                          |
| 2020 -          | <b>Principle Investigator</b> , COVID project, Max Planck Society                                                                                                               |
| 2020 - 2021     | <b>Principle Investigator</b> , NUM - Netzwerk Universitätsmedizin                                                                                                              |
| 2020 -          | Member of the <b>Cluster of Excellence</b> Multiscale Bioimaging                                                                                                                |
| 2016 - 2018     | <b>Principal Investigator</b> of a Project in the <b>Phys2Med Initiative</b><br>in preparation of the Excellence Initiative of the<br>University and Medical Faculty, Göttingen |
| 2015/2016       | <b>Research Stay at the Ben Gurion University</b> , Beer-Sheva, Israel                                                                                                          |
| 2015            | <b>Successful Competition for a Max Planck Research Group</b>                                                                                                                   |
| March/Apr. 2015 | <b>Research stay at the TECHNION</b> , Haifa, Israel<br>supported by the "Deutsche Technion Gesellschaft e.V."                                                                  |
| 2014            | Appointed as <b>Bernstein Fellow</b><br>Independent research position for two years, incl. consumables                                                                          |

## AWARDS & DISTINCTIONS

|             |                                                                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026        | <b>Teaching Award</b> , Faculty of Physics, Göttingen                                                                                                                          |
| 2024 - 2025 | <b>Präsidium</b> , “Die Junge Akademie”                                                                                                                                        |
| 2024        | <b>Young Scientist Award for Socio- and Econophysics</b> , DPG                                                                                                                 |
| 2025 -      | <b>External Faculty</b> , Complexity Hub Vienna, Austria                                                                                                                       |
| 2023        | <b>Member</b> , Göttingen Academy of Sciences and Humanities                                                                                                                   |
| 2022        | <b>Lise-Meitner-Lecture</b><br>of the Austrian and German Physical Societies (ÖPG & DPG)                                                                                       |
| 2022        | <b>Arthur-Burkhardt-Award</b>                                                                                                                                                  |
| 2022        | <b>Minerva-Award</b> , Jülich                                                                                                                                                  |
| 2022        | <b>Offer Director</b> Position, Helmholtz Munich                                                                                                                               |
| 2021        | <b>Dannie-Heineman-Award</b> , Göttingen Academy of Sciences and Humanities                                                                                                    |
| 2021        | <b>Wissenschaftspreis Niedersachsen</b>                                                                                                                                        |
| 2021        | <b>Hans-Jensen-Lecture</b> , University of Heidelberg                                                                                                                          |
| 2021        | <b>Offer W3 Professorship (Ruf)</b> : Department of Physics,<br>University of Göttingen (accepted 2022)                                                                        |
| 2021 -      | <b>Member</b> , “ <b>Die Junge Akademie</b> ”<br>at the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW)<br>and the German National Academy of Sciences Leopoldina |
| 2021        | <b>Medaille für Naturwissenschaftliche Publizistik</b> of the DPG                                                                                                              |
| 2021        | <b>Communitas-Award</b> of the Max Planck Society                                                                                                                              |
| 2020        | <b>Invited Talk</b> , <b>Senate of the Max Planck Society</b>                                                                                                                  |
| 2020        | <b>Offer W3 Professor</b> , Department of Physics, University of Heidelberg                                                                                                    |
| 2016        | <b>German-Israel Foundation (GIF)</b> Young Investigator Award                                                                                                                 |
| 2015 - 2020 | <b>Fellow</b> , <b>Schiemann Kolleg</b> of the Max Planck Society                                                                                                              |

## SERVICE TO THE COMMUNITY

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|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025        | <b>Evaluation</b> , Donders Institute, Radboud University, NL                                                                                                   |
| 2024 -      | <b>Member</b> , Arbeitskreis Gesellschaftliche Arbeitsteilung in der multiplen Krise                                                                            |
| 2024 -      | <b>Evaluation Committe</b> for Collaborative Research Grants (CRC),                                                                                             |
| 2023 -      | <b>Hiring Committes</b> for Professor Positions                                                                                                                 |
| 2023 -      | <b>Evaluation Commiettee</b> Life Science Xplained Award                                                                                                        |
| 2022 -      | Author and <b>position papers</b> on COVID-19 & digitalization, and on gender equality, for the Academia Leopoldina                                             |
| 2021 - 2023 | <b>Member of the national expert panel on COVID-19</b> of the German Federal Government                                                                         |
| 2020 -      | Author or initiator of <b>position papers</b> on COVID-19 published at The Lancet, with the Max Planck Society, and others                                      |
| 2020 -      | <b>Political advising and public outreach</b> on COVID-19 with numerous interviews in print, radio, TV & regular press briefings                                |
| 2019 - 2022 | <b>Member</b> , hiring committee for W2-positions within the Max Planck Society                                                                                 |
| 2019 - 2023 | <b>Representative of the Scientific Staff</b> , MPI for Dynamics and Self-Organization                                                                          |
| 2018 - 2025 | <b>Organization</b> and Initialization, Symposium: Göttingen Neural Networking Day                                                                              |
| 2018 -      | <b>Organization</b> of Workshops at CNS, FENS, and DPG conferences                                                                                              |
| 2017        | <b>Organization Committee</b> of the Bernstein Conference                                                                                                       |
| 2017 - 2023 | <b>Faculty, Smart Start Training Program</b> in Computational Neuroscience                                                                                      |
| 2016-2022   | Yearly organization of an <b>Information Theory Workshop</b> at the CNS                                                                                         |
| since 2016  | <b>Reviewing</b> for Frontiers, Nature Publishing group, Physical Review Letters et al., PLoS, Science et al.; national and international funding organizations |

## LIST OF PUBLICATIONS (2024)

The current list of publications can be found on [Google Scholar \[link\]](#).

- [1] A. Reitenbach, F. Sartori, S. Banisch, A. Golovin, A. Calero Valdez, M. Kretzschmar, V. **Priesemann**, and M. Maes, “Coupled infectious disease and behavior dynamics. a review of model assumptions,” *Reports on Progress in Physics*, 2024.
- [2] K. Y. Oróstica, S. B. Mohr, J. Dehning, S. Bauer, D. Medina-Ortiz, E. N. Iftekhhar, K. Mujica, P. C. Covarrubias, S. Ulloa, A. E. Castillo *et al.*, “Early mutational signatures and transmissibility of sars-cov-2 gamma and lambda variants in chile,” *Scientific Reports*, vol. 14, no. 1, p. 16000, 2024.
- [3] S. Reshetniak, C. A. Bogaciu, S. Bonn, N. Brose, B. H. Cooper, E. D’Este, M. Fauth, R. Fernández-Busnadiego, M. Fiosins, A. Fischer *et al.*, “The synaptic vesicle cluster as a controller of pre-and postsynaptic structure and function,” *The Journal of Physiology*, 2024.
- [4] L. Rudelt, D. González Marx, F. P. Spitzner, B. Cramer, J. Zierenberg, and V. **Priesemann**, “Signatures of hierarchical temporal processing in the mouse visual system,” *PLOS Computational Biology*, vol. 20, no. 8, p. e1012355, 2024.
- [5] P. Doenges, T. Götz, N. Kruchinina, T. Krüger, K. Niedzielewski, V. **Priesemann**, and M. Schäfer, “Sir model for households,” *SIAM Journal on Applied Mathematics*, vol. 84, no. 4, pp. 1460–1481, 2024.
- [6] J. M. Rowland, T. L. Van Der Plas, M. Loidolt, R. M. Lees, J. Keeling, J. Dehning, T. Akam, V. **Priesemann**, and A. M. Packer, “Propagation of activity through the cortical hierarchy and perception are determined by neural variability,” *Nature Neuroscience*, vol. 26, no. 9, pp. 1584–1594, Sep. 2023. [Online]. Available: <https://www.nature.com/articles/s41593-023-01413-5>
- [7] F. A. Mikulasch, L. Rudelt, M. Wibrál, and V. **Priesemann**, “Where is the error? hierarchical predictive coding through dendritic error computation,” *Trends in Neurosciences*, vol. 46, no. 1, pp. 45–59, 2023.
- [8] H. Yamamoto, F. P. Spitzner, T. Takemuro, V. Buendía, H. Murota, C. Morante, T. Konno, S. Sato, A. Hirano-Iwata, A. Levina, V. **Priesemann**, M. A. Muñoz, J. Zierenberg, and J. Soriano, “Modular architecture facilitates noise-driven control of synchrony in neuronal networks,” *Science Advances*, vol. 9, no. 34, Aug. 2023. [Online]. Available: <https://doi.org/10.1126/sciadv.ade1755>
- [9] F. Davenport, J. Gallacher, Z. Kourtzi, I. Koychev, P. M. Matthews, N. P. Oxtoby, L. M. Parkes, V. **Priesemann**, J. B. Rowe, S. W. Smye *et al.*, “Neurodegenerative disease of the brain: a survey of interdisciplinary approaches,” *Journal of the Royal Society Interface*, vol. 20, no. 198, p. 20220406, 2023.
- [10] J. Dehning, S. B. Mohr, S. Contreras, P. Dönges, E. N. Iftekhhar, O. Schulz, P. Bechtle, and V. **Priesemann**, “Impact of the euro 2020 championship on the spread of covid-19,” *Nature Communications*, vol. 14, no. 1, p. 122, 2023.

- [11] S. Contreras, K. Y. Oróstica, A. Daza-Sanchez, J. Wagner, P. Dönges, D. Medina-Ortiz, M. Jara, R. Verdugo, C. Conca, V. **Priesemann** *et al.*, “Model-based assessment of sampling protocols for infectious disease genomic surveillance,” *Chaos, Solitons & Fractals*, vol. 167, p. 113093, 2023.
- [12] J. Zierenberg, F. P. Spitzner, J. Dehning, V. **Priesemann**, M. Weigel, and M. Wilczek, “How contact patterns destabilize and modulate epidemic outbreaks,” *New Journal of Physics*, vol. 25, no. 5, p. 053033, May 2023. [Online]. Available: <https://doi.org/10.1088/1367-2630/acd1a7>
- [13] S. Contreras, E. N. Iftekhhar, and V. **Priesemann**, “From emergency response to long-term management: the many faces of the endemic state of COVID-19,” *The Lancet Regional Health - Europe*, vol. 30, p. 100664, Jul. 2023. [Online]. Available: <https://doi.org/10.1016/j.lanepe.2023.100664>
- [14] A. Kekić, J. Dehning, L. Gresele, J. von Kügelgen, V. **Priesemann**, and B. Schölkopf, “Evaluating vaccine allocation strategies using simulation-assisted causal modeling,” *Patterns*, vol. 4, no. 6, p. 100739, Jun. 2023. [Online]. Available: <https://doi.org/10.1016/j.patter.2023.100739>
- [15] K. Sherratt, H. Gruson, R. Grah, H. Johnson, R. Niehus, B. Prasse, F. Sandmann, J. Deuschel, D. Wolfram, S. Abbott, A. Ullrich, G. Gibson, E. L. Ray, N. G. Reich, D. Sheldon, Y. Wang, N. Wattanachit, L. Wang, J. Trnka, G. Obozinski, T. Sun, D. Thanou, L. Pottier, E. Krymova, J. H. Meinke, M. V. Barbarossa, N. Leithauser, J. Mohring, J. Schneider, J. Wlazlo, J. Fuhrmann, B. Lange, I. Rodiah, P. Baccam, H. Gurung, S. Stage, B. Suchoski, J. Budzinski, R. Walraven, I. Villanueva, V. Tucek, M. Smid, M. Zajicek, C. P. Alvarez, B. Reina, N. I. Bosse, S. R. Meakin, L. Castro, G. Fairchild, I. Michaud, D. Osthus, P. A. D. Loro, A. Maruotti, V. Eclerova, A. Kraus, D. Kraus, L. Pribylova, B. Dimitris, M. L. Li, S. Saksham, J. Dehning, S. Mohr, V. **Priesemann**, G. Redlarski, B. Bejar, G. Ardenghi, N. Parolini, G. Ziarelli, W. Bock, S. Heyder, T. Hotz, D. E. Singh, M. Guzman-Merino, J. L. Aznarte, D. Morina, S. Alonso, E. Alvarez, D. Lopez, C. Prats, J. P. Burgard, A. Rodloff, T. Zimmermann, A. Kuhlmann, J. Zibert, F. Pennoni, F. Divino, M. Catala, G. Lovison, P. Giudici, B. Tarantino, F. Bartolucci, G. J. Lasinio, M. Mingione, A. Farcomeni, A. Srivastava, P. Montero-Manso, A. Adiga, B. Hurt, B. Lewis, M. Marathe, P. Porebski, S. Venkatramanan, R. P. Bartczuk, F. Dreger, A. Gambin, K. Gogolewski, M. Gruzziel-Slomka, B. Krupa, A. Moszyński, K. Niedzielewski, J. Nowosielski, M. Radwan, F. Rakowski, M. Semeniuk, E. Szczurek, J. Zielinski, J. Kisielewski, B. Pabjan, K. Holger, Y. Kheifetz, M. Scholz, B. Przemyslaw, M. Bodych, M. Filinski, R. Idzikowski, T. Krueger, T. Ozanski, J. Bracher, and S. Funk, “Predictive performance of multi-model ensemble forecasts of COVID-19 across european nations,” *eLife*, vol. 12, Apr. 2023. [Online]. Available: <https://doi.org/10.7554/elife.81916>
- [16] D. A. Ehrlich, A. C. Schneider, V. **Priesemann**, M. Wibral, and A. Makkeh, “A measure of the complexity of neural representations based on partial information decomposition,” *Transactions on Machine Learning Research*, 2023. [Online]. Available: <https://openreview.net/forum?id=R8TU3pfzFr>
- [17] B. Cramer, M. Kreft, S. Billaudelle, V. Karasenko, A. Leibfried, E. Müller, P. Spilger, J. Weis, J. Schemmel, M. A. Muñoz, V. **Priesemann**, and J. Zierenberg, “Autocorrelations from emergent bistability in homeostatic spiking neural networks on neuromorphic

- hardware,” *Phys. Rev. Res.*, vol. 5, p. 033035, Jul 2023. [Online]. Available: <https://link.aps.org/doi/10.1103/PhysRevResearch.5.033035>
- [18] F. A. Mikulasch, L. Rudelt, and V. **Priesemann**, “Visuomotor Mismatch Responses as a Hallmark of Explaining Away in Causal Inference,” *Neural Computation*, vol. 35, no. 1, pp. 27–37, Jan. 2023. [Online]. Available: [https://doi.org/10.1162/neco\\_a\\_01546](https://doi.org/10.1162/neco_a_01546)
  - [19] P. Wollstadt, D. L. Rathbun, W. M. Usrey, A. M. Bastos, M. Lindner, **Priesemann**, **Viola**, and M. Wibral, “Information-theoretic analyses of neural data to minimize the effect of researchers’s assumptions in predictive coding studies,” *PLOS Computational Biology*, vol. 19, no. 11, p. e1011567, Nov. 2023. [Online]. Available: <https://dx.plos.org/10.1371/journal.pcbi.1011567>
  - [20] A. Levina, V. **Priesemann**, and J. Zierenberg, “Tackling the subsampling problem to infer collective properties from limited data,” *Nature Reviews Physics*, pp. 1–15, 2022.
  - [21] F. A. Mikulasch, L. Rudelt, M. Wibral, and V. **Priesemann**, “Where is the error? hierarchical predictive coding through dendritic error computation,” *Trends in Neurosciences*, 2022.
  - [22] D. P. Shorten, V. **Priesemann**, M. Wibral, and J. T. Lizier, “Early lock-in of structured and specialised information flows during neural development,” *Elife*, vol. 11, p. e74651, 2022.
  - [23] P. Dönges, J. Wagner, S. Contreras, E. N. Iftexhar, S. Bauer, S. B. Mohr, J. Dehning, A. Calero Valdez, M. Kretzschmar, M. Mäs, and V. **Priesemann**, “Interplay between risk perception, behaviour, and covid-19 spread,” *Frontiers in Physics*, p. 68, 2022.
  - [24] T. Czypionka, E. N. Iftexhar, B. Prainsack, V. **Priesemann**, S. Bauer, A. C. Valdez, S. Cuschieri, E. Glaab, E. Grill, J. Krutzinna *et al.*, “The benefits, costs and feasibility of a low incidence covid-19 strategy,” *The Lancet Regional Health-Europe*, vol. 13, p. 100294, 2022.
  - [25] M. Oliu-Barton, B. S. Pradelski, Y. Algan, M. G. Baker, A. Binagwaho, G. J. Dore, A. El-Mohandes, A. Fontanet, A. Peichl, V. **Priesemann** *et al.*, “Elimination versus mitigation of sars-cov-2 in the presence of effective vaccines,” *The Lancet Global Health*, vol. 10, no. 1, pp. e142–e147, 2022.
  - [26] K. Y. Oróstica, S. Contreras, A. Sanchez-Daza, J. Fernandez, V. **Priesemann**, and Á. Olivera-Nappa, “New year, new sars-cov-2 variant: Resolutions on genomic surveillance protocols to face omicron,” *The Lancet Regional Health–Americas*, vol. 7, 2022.
  - [27] S. Contreras, J. Dehning, and V. **Priesemann**, “Describing a landscape we are yet discovering,” *AStA Advances in Statistical Analysis*, pp. 1–4, 2022.
  - [28] K. Leite, P. Garg, F. P. Spitzner, S. G. Darvas, M. Bähr, V. **Priesemann**, and S. Kügler, “ $\alpha$ -synuclein impacts on intrinsic neuronal network activity through reduced levels of cyclic amp and diminished numbers of active presynaptic terminals,” *Frontiers in molecular neuroscience*, vol. 15, 2022.
  - [29] S. Contreras, Á. Olivera-Nappa, and V. **Priesemann**, “Rethinking covid-19 vaccine allocation: it is time to care about our neighbours,” *The Lancet Regional Health–Europe*, vol. 12, 2022.

- [30] F. A. Mikulasch, L. Rudelt, and V. **Priesemann**, “Visuomotor mismatch responses as a hallmark of explaining away in causal inference,” *Neural computation*, vol. 35, no. 1, pp. 27–37, 2022.
- [31] J. P. Neto, F. P. Spitzner, and V. **Priesemann**, “Sampling effects and measurement overlap can bias the inference of neuronal avalanches,” *PLOS Computational Biology*, vol. 18, no. 11, p. e1010678, 2022.
- [32] K. Sherratt, H. Gruson, R. Grah, H. Johnson, R. Niehus, B. Prasse, F. Sandman, J. Deuschel, D. Wolfram, S. Abbott *et al.*, “Predictive performance of multi-model ensemble forecasts of covid-19 across european nations,” *medRxiv*, pp. 2022–06, 2022.
- [33] F. A. Mikulasch, L. Rudelt, and V. **Priesemann**, “Local dendritic balance enables learning of efficient representations in networks of spiking neurons,” *Proceedings of the National Academy of Sciences*, vol. 118, no. 50, p. e2001925118, 2021.
- [34] S. Contreras, J. Dehning, S. B. Mohr, S. Bauer, F. P. Spitzner, and V. **Priesemann**, “Low case numbers enable long-term stable pandemic control without lockdowns,” *Science Advances*, vol. 7, no. 41, p. eabg2243, 2021.
- [35] S. Bauer, S. Contreras, J. Dehning, M. Linden, E. Iftexhar, S. B. Mohr, A. Olivera-Nappa, and V. **Priesemann**, “Relaxing restrictions at the pace of vaccination increases freedom and guards against further covid-19 waves,” *PLoS Computational Biology*, vol. 17, no. 9, p. e1009288, 2021.
- [36] L. Rudelt, D. G. Marx, M. Wibral, and V. **Priesemann**, “Embedding optimization reveals long-lasting history dependence in neural spiking activity,” *PLOS Computational Biology*, vol. 17, no. 6, p. e1008927, 2021.
- [37] S. Contreras and V. **Priesemann**, “Risking further covid-19 waves despite vaccination,” *The Lancet Infectious Diseases*, vol. 21, no. 6, pp. 745–746, 2021.
- [38] V. **Priesemann**, R. Balling, S. Bauer, P. Beutels, A. C. Valdez, S. Cuschieri, T. Czypionka, U. Dumpis, E. Glaab, E. Grill *et al.*, “Towards a european strategy to address the covid-19 pandemic,” *The Lancet*, vol. 398, no. 10303, pp. 838–839, 2021.
- [39] E. N. Iftexhar, V. **Priesemann**, R. Balling, S. Bauer, P. Beutels, A. C. Valdez, S. Cuschieri, T. Czypionka, U. Dumpis, E. Glaab *et al.*, “A look into the future of the covid-19 pandemic in europe: an expert consultation,” *The Lancet Regional Health-Europe*, p. 100185, 2021.
- [40] S. Jähne, F. Mikulasch, H. G. Heuer, S. Truckenbrodt, P. Agüi-Gonzalez, K. Grewe, A. Vogts, S. O. Rizzoli, and V. **Priesemann**, “Presynaptic activity and protein turnover are correlated at the single-synapse level,” *Cell Reports*, vol. 34, no. 11, p. 108841, 2021.
- [41] S. Contreras, J. Dehning, M. Loidolt, F. P. Spitzner, J. H. Urrea-Quintero, S. B. Mohr, M. Wilczek, J. Zierenberg, M. Wibral, and V. **Priesemann**, “The challenges of containing sars-cov-2 via test-trace-and-isolate,” *Nature Communications*, vol. 12, no. 1, p. 378, 2021.
- [42] V. **Priesemann**, R. Balling, M. M. Brinkmann, S. Ciesek, T. Czypionka, I. Eckerle, G. Giordano, C. Hanson, Z. Hel, P. Hotulainen *et al.*, “An action plan for pan-european defence against new sars-cov-2 variants,” *The Lancet*, vol. 397, no. 10273, pp. 469–470, 2021.

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