

About the Author



Jakub Sawicki studied music at Listaháskóli Islands University and Berlin University of the Arts. He was granted a Cusanuswerk scholarship and in this context committed himself to social projects in Greenland and India. In course of his studies of physics, he worked on the synchronization of organ pipes at Saint Petersburg State University. Apart from his position at Berlin Cathedral, Jakub Sawicki has deepened his studies of organ improvisation with Prof. Wolfgang Seifen. He has engagements as choir and orchestra conductor and teaches improvisation at Berlin University of the Arts. He also participates in silent movie and improvisation

projects. 2010 he was engaged by Theodor-Heuss-Kolleg to compose the music for an international movie production. Jakub Sawicki takes part in master classes and competitions and performs in- and outside Germany.

Apart from the musical activities, Jakub Sawicki has continued his scientific research and received the Dr. rer. nat. degree from the Technical University Berlin in 2019. His work was supervised by Prof. Dr. Dr. h.c. Eckehard Schöll, Ph.D., at the Institute of Theoretical Physics. His research interests include synchronization phenomena, nonlinear delay differential equations, modeling of complex systems and neural dynamics. He has contributed to the following publications:

- J. Sawicki, M. Abel, and E. Schöll: *Synchronization in coupled organ pipes*, in *Proceedings of the 7th International Conference on Physics and Control (PhysCon 2015)*, edited by (IPACS Electronic Library, 2015), Istanbul, Turkey.
- P. Kalle, J. Sawicki, A. Zakharova, and E. Schöll: *Chimera states and the interplay between initial conditions and non-local coupling*, *Chaos* **27**, 033110 (2017).
- J. Sawicki, I. Omelchenko, A. Zakharova, and E. Schöll: *Chimera states in complex networks: interplay of fractal topology and delay*, *Eur. Phys. J. Spec. Top.* **226**, 1883–1892 (2017).

- J. Sawicki, I. Omelchenko, A. Zakharova, and E. Schöll: *Synchronization scenarios of chimeras in multiplex networks*, Eur. Phys. J. Spec. Top. **227**, 1161 (2018).
- J. Sawicki, M. Abel, and E. Schöll: *Synchronization of organ pipes*, Eur. Phys. J. B **91**, 24 (2018).
- J. Sawicki, I. Omelchenko, A. Zakharova, and E. Schöll: *Delay controls chimera relay synchronization in multiplex networks*, Phys. Rev. E **98**, 062224 (2018).
- J. Sawicki, I. Omelchenko, A. Zakharova, and E. Schöll: *Delay-induced chimeras in neural networks with fractal topology*, Eur. Phys. J. B **92**, 54 (2019).
- J. Sawicki, S. Ghosh, S. Jalan, and A. Zakharova: *Chimeras in multiplex networks: interplay of inter- and intra-layer delays*, Front. Appl. Math. Stat. **5**, 19 (2019).
- M. Winkler, J. Sawicki, I. Omelchenko, A. Zakharova, V. Anishchenko, and E. Schöll: *Relay synchronization in multiplex networks of discrete maps*, Europhys. Lett. **126**, 50004 (2019).
- L. Ramlow, J. Sawicki, A. Zakharova, J. Hlinka, J. C. Claussen, and E. Schöll: *Partial synchronization in empirical brain networks as a model for unihemispheric sleep*, Europhys. Lett. **126**, 50007 (2019).