



Steffen W. R. Werner

Assistant Professor at Virginia Polytechnic Institute and State University (Virginia Tech), USA

Personal Info

* Birthday

September 6, 1992
in Stendal, Germany

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🌐 Website

<https://ninsteve.github.io>

Programming Skills

MATLAB



LaTeX



Python



C



Languages

German



English



Steffen W. R. Werner is an encouraged young researcher active in the fields of scientific machine learning and model order reduction, involving numerical linear algebra and scientific computing. During his scientific career, he published 20 journal articles, 3 book chapters, 10 conference papers, as well as 3 open-source software packages.

Professional Experience

since 08/2023	Assistant professor, Virginia Polytechnic Institute and State University, USA.
09/2021–08/2023	Postdoctoral associate, Courant Institute, New York University, USA.
10/2016–08/2021	Doctoral researcher, Max Planck Institute Magdeburg, Germany.
05/2016–09/2016, 10/2014–01/2016	Student employee, Max Planck Institute Magdeburg, Germany. • Development and maintenance of MATLAB toolboxes.
01/2016–04/2016	Industrial intern, proALPHA Business Solutions GmbH, Germany. • Application programming. • Analysis of modern version control systems.
10/2013–09/2014	Student employee, Otto von Guericke University Magdeburg, Germany. • Tutor for mathematical/engineering courses.

Education

10/2016–08/2021	Doctoral studies in applied mathematics, Otto von Guericke University Magdeburg, Germany. • summa cum laude (excellent).
10/2014–09/2016	Master of Science in applied mathematics, Otto von Guericke University Magdeburg, Germany. • very good with distinction.
10/2011–09/2014	Bachelor of Science in applied mathematics, Otto von Guericke University Magdeburg, Germany. • very good with distinction.

Research Interests

scientific computing, scientific machine learning, model order reduction, data-driven modeling, numerical linear algebra, optimization and control, mathematical software

Awards

03/2020	Best Paper Award Automatisierungstechnik at - Automatisierungstechnik, De Gruyter, Austria.
06/2019	SIAM Student Chapter Certificate of Recognition Society for Industrial and Applied Mathematics (SIAM), Philadelphia, USA.

Selected Publications

[1] **S. W. R. Werner** and B. Peherstorfer. Context-aware controller inference for stabilizing dynamical systems from scarce data. *Proc. R. Soc. A: Math. Phys. Eng. Sci.*, 429(2270):20220506, 2023. [doi](#) 10.1098/rspa.2022.0506

[2] J. Saak, D. Siebelts, and **S. W. R. Werner**. A comparison of second-order model order reduction methods for an artificial fishtail. *at - Automatisierungstechnik*, 67(8):648–667, 2019. [doi](#) 10.1515/auto-2019-0027

[3] P. Benner, S. Gugercin, and **S. W. R. Werner**. Structure-preserving interpolation of bilinear control systems. *Adv. Comput. Math.*, 47(3):43, 2021. [doi](#) 10.1007/s10444-021-09863-w

[4] P. Benner, J. Saak, and **S. W. R. Werner**. MORLAB – Model Order Reduction LABoratory (version 6.0), 2023. See also: <https://www.mpi-magdeburg.mpg.de/projects/morlab>. [doi](#) 10.5281/zenodo.7072831