



Steffen W. R. Werner

Postdoctoral Associate at the Courant Institute of Mathematical Sciences, New York University, USA

Personal Info

* Birthday

September 6, 1992
in Stendal, Germany

✉ Address

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🌐 Website

<https://ninsteve.github.io>

Programming Skills

MATLAB



Expert

LaTeX



Expert

Python



Advanced

C



intermediate

Languages

German



Mother tongue

English



Advanced

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 10 journal articles, 2 book chapters, 9 conference papers, as well as 3 open-source software packages.

Professional Experience

since 09/2021

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] P. Benner and **S. W. R. Werner**. Frequency- and time-limited balanced truncation for large-scale second-order systems. *Linear Algebra Appl.*, 623:68–103, 2021. 10.1016/j.laa.2020.06.024
- [2] J. Saak, D. Siebelts, and **S. W. R. Werner**. A comparison of second-order model order reduction methods for an artificial fish tail. *at - Automatisierungstechnik*, 67(8):648–667, 2019. 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. 10.1007/s10444-021-09863-w
- [4] P. Benner and **S. W. R. Werner**. MORLAB – Model Order Reduction LABoratory (version 5.0), 2019. see also: <http://www.mpi-magdeburg.mpg.de/projects/morlab>. 10.5281/zenodo.3332716 License AGPL v3+