



# 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

### ✉ Address

460 McBryde Hall  
225 Stanger Street  
Blacksburg, VA 24061, USA

### @ E-mail

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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 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

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