Curriculum Vitae

Dr. Tom Wiesing
Erlangen, Germany
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💼 Professional Experience

Research Software Engineer

Competence Center for Research Data and Information
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
09/2021 - present

- Developed and maintained research data management systems used across academic projects.
- Co-led interdisciplinary teams to design, build & integrate software solutions into research workflows.
- Led deployment pipelines to configure, document & maintain infrastructure using Docker, Ansible & Git.

Research Software Engineer (Exchange Visitor)

Applied and Computational Mathematics Division - Mathematical Software Group
National Institute of Standards and Technology (NIST), Gaithersburg, MD, USA

- **06/2021 - 08/2021**: Added support for presentations (beamer package)
- **11/2019 - 01/2020**: Modernized bibliography processing to match existing workflows
- **06/2018 - 08/2018**: Improved Docker-based CI & Testing Infrastructure
- **06/2017 - 08/2017**: Onboarded to LaTeXML (a LaTeX To XHTML converter) & improved LaTeX parsing

Research Software Engineer

KWARC Group, Friedrich-Alexander-Universität Erlangen-Nürnberg
09/2017 - 08/2021

- Built knowledge representation tools and scientific knowledge services.
- Implemented backend systems for semantic markup and interactive publishing.

KWARC Group, Jacobs University Bremen (now Constructor University Bremen)
07/2015 - 05/2017
- Maintained & developed tools to support formal and informal mathematics research.

Board Member (IT Assessor)

Jacobs University Alumni Association
01/2018 - 05/2024
- Volunteer work, collaborated with a diverse interdisciplinary team of other board members.
- Maintained technical resources of the association, such as Google Workspace accounts and websites.
- Designed, implemented & deployed a custom application to manage association members based on Django.

🎓 Education

Doctor Of Engineering
Friedrich-Alexander-Universität Erlangen-Nürnberg
Dissertation: *Towards A Commons Of Object-Centered Research Data*
doi: 10.25593/open-fau-1825

Master Of Science in Data Engineering
Jacobs University Bremen (now Constructor University Bremen)

Bachelor of Science in Applied & Computational Mathematics
Jacobs University Bremen (now Constructor University Bremen)

⚖️ Skills

Programming Languages & Frameworks	Go	Python Django	TypeScript React	
Tools & Platforms	Docker Docker Compose	Git GitHub Actions	Linux Sysadmin Ansible	Traefik Nginx
Spoken Languages	German (native)	English (bilingual)		