Welcome to CO@WORK at Zuse Institute Berlin

Prof. Dr. Sebastian Pokutta Vice President

OVERVIEW SUMMER 2024













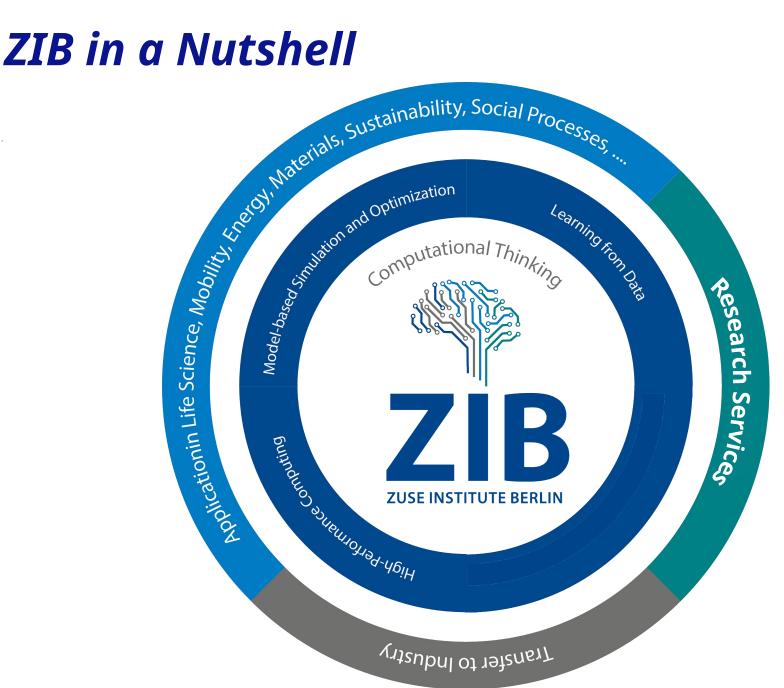


- 7th Summer School
- Started in 2005 with about 100 participants
- Roughly every 4 years
- Last installment in May 2020 (online)

CO@WORK 2020 fully online > 1000 participants



ZIB in a Nutshell

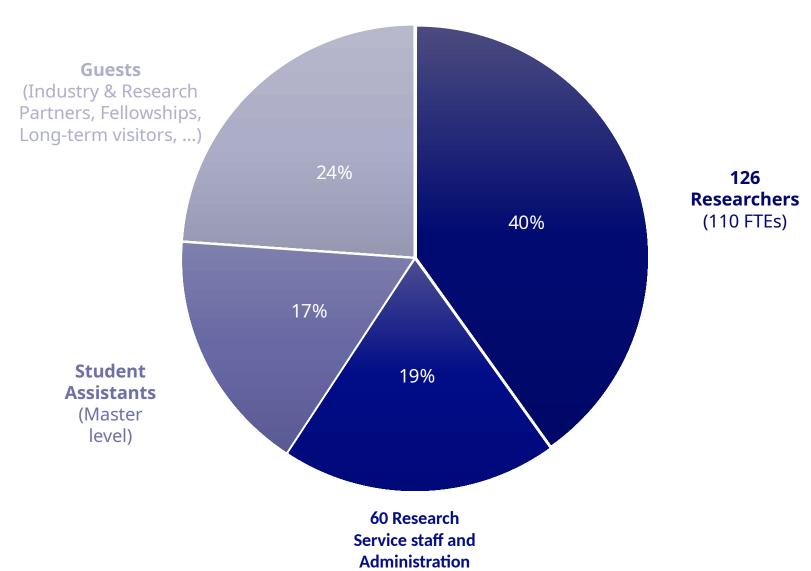


Applied Mathematics and Computer Science



ZIB Members (2022)





Sample Partners and Collaborations













































































Sample Partners and **Collaborations**









KRALL DEMMEL BAUMGARTEN

















































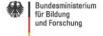
























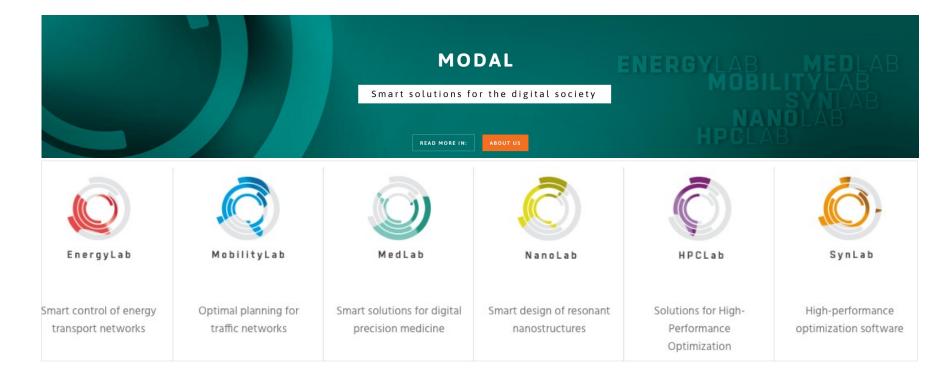


Research Transfer: MODAL



Second Funding Period for the Research Campus MODAL

- 60+ Researchers
- **2**020-2025:
 - Funding of EUR 10m from BMBF
 - Matched by >EUR 14m from 35 industry partners
- Largest Public-Private Partnership in (Applied) Mathematics in Germany



National Center for HPC (NHR)





NHR Alliance: members and their locations



- Rhein-Westfälische Technische Hochschule Aachen,
- Zuse Institut Berlin,
- Technische Universität Darmstadt,
- Technische Universität Dresden,
- Friedrich-Alexander-Universität Erlangen-Nürnberg,
- GWDG/Georg-August-Universität Göttingen,
- · Karlsruher Institut für Technologie,
- Johannes Gutenberg Universität Mainz in behalf of the consortium Süd-West (Goethe-Universität Frankfurt, Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau, Johannes Gutenberg Universität Mainz, Universität des Saarlandes), and
- Universität Paderborn.

Some Key Numbers of the NHR Alliance



more than **6 billion CPU core-hours** made available per year



Jointly, almost 180 HPC experts and staff member



Almost **1800 scientific articles** published between 2021 and 2023 supported by NHR computing resources



Almost **2000 projects** started between 2021 and 2023



Joint application portal developed and put into use



Joint annual budget of 65 million EUR

Join us at ZIB

• International Student Research Visits (2-6 months):

- For undergraduates or Master's students from other universities.
- Requirements: Background in mathematics, CS, or related fields.
- Apply 2-4 months before preferred start date, including CV, transcript, and motivational letter.

Bachelor and Master Theses (Berlin universities):

- Supervision for students at Berlin universities.
- Requirements: Alignment with our research and engagement in respective courses.
- Limited slots available; apply early with a CV, transcript, and motivational letter.

PhD Positions (Berlin universities):

- Research as a PhD student with potential teaching opportunities.
- Requirements: Strong background in mathematics, CS, or related fields; specific research interests.
- Apply 3-6 months before preferred start date; include detailed CV, transcripts, research statement, and recommendations.

Postdoctoral Research Opportunities:

Collaborate on advanced research projects.

Interested? Contact Us!

- Email: <u>applications-aisst@zib.de</u>
- Include all relevant documents and information in your email.





Thank you!

- All speakers, exercise session organizers, and breakout session organizers
- CO@Work Organizers: Timo Berthold, Ralf Borndörfer, Ambros Gleixner, Thorsten Koch, and Milena Petkovic
- And the Sponsors:

























University of Applied Sciences





