# Jonas **Posner**

POSTDOCTORAL RESEARCHER · HABILITATION CANDIDATE · LECTURER

University of Kassel, Germany

Research Group Programming Languages / Methodologies (PLM)

■ jonas.posner@uni-kassel.de | 😭 uni-kassel.de/go/posner | 😭 jonasposner.com | 🛅 LinkedIn | 📾 Google Scholar

## Position \_\_

#### Postdoctoral Researcher & Habilitation Candidate & Lecturer

Apr. 25-PRESENT

University of Kassel, Germany

Research Group Programming Languages/Methodologies (PLM)

Chair Substitute Oct. 24–Mar. 25

University of Kassel, Germany

Research Group Software Engineering (SE)

Postdoctoral Researcher & Lecturer Aug. 22–Sept. 24

University of Kassel, Germany

Research Group Programming Languages/Methodologies (PLM)

## Education

Ph.D. Computer Science 2016–2022

University of Kassel, Germany magna cum laude

Thesis: Load Balancing, Fault Tolerance, and Resource Elasticity for Asynchronous Many-Task Systems

Advisor: Prof. Dr. Claudia Fohry (University of Kassel)

Second Reviewer: Prof. Dr. Martin Schulz (Technical University of Munich—TUM)

M.Sc. Computer Science 2014–2016

University of Kassel, Germany, 1.5 years program, 90 ECTS

90%

Thesis: Global Load Balancing and Intra-Node Synchronization with the Java Framework APGAS

**B.Sc. Computer Science**, ranked top 2%

2010-2014

University of Kassel, Germany, 3.5 years program, 210 ECTS

90%

Thesis: Fault-Tolerant Task Pools in the Parallel Programming Language X10

#### Certificate of Chamber of Industry and Commerce: Computer Science Expert

2007-2010

BDO International, Kassel, Germany, 3 years program

83%

1

Thesis: Installation and Configuration of Citrix Servers

# Research Interests \_

- · High Performance Computing,
- Parallel Programming Models,
- · Asynchronous Many-Task Systems (AMT),
- · Load Balancing,
- Fault Tolerance, and
- Resource Elasticity.

# **Publications**

## Journals

JUNE 16, 2025

[P1] Patrick Finnerty, **Jonas Posner**, Janek Bürger, Leo Takaoka, and Takuma Kanzaki. "On the Performance of Malleable APGAS Programs and Batch Job Schedulers". In: *Springer Nature Computer Science* (2024). DOI: 10.1007/s42979-024-02641-7.

- [P2] **Jonas Posner**, Lukas Reitz, and Claudia Fohry. "Task-Level Resilience: Checkpointing vs. Supervision". In: *Special Issue International Journal of Networking and Computing (IJNC)* 12.1 (2022), pp. 47–72. DOI: 10.15803/ijnc.12.1\_47.
- [P3] **Jonas Posner**, Lukas Reitz, and Claudia Fohry. "A Comparison of Application-Level Fault Tolerance Schemes for Task Pools". In: Future Generation Computer Systems (FGCS) 105 (2019), pp. 119–134. DOI: 10.1016/j.future.2019.11.031.
- [P4] **Jonas Posner** and Claudia Fohry. "Hybrid Work Stealing of Locality-Flexible and Cancelable Tasks for the APGAS Library". In: *The Journal of Supercomputing* (2018), pp. 1435–1448. DOI: 10.1007/s11227-018-2234-8.
- [P5] **Jonas Posner** and Claudia Fohry. "A Java Task Pool Framework providing Fault-Tolerant Global Load Balancing". In: *Special Issue on the International Journal of Networking and Computing (IJNC)* 8.1 (2018), pp. 2–31. DOI: 10.15803/ijnc.8.1\_2.
- [P6] Claudia Fohry, Marco Bungart, and **Jonas Posner**. "Fault Tolerance Schemes for Global Load Balancing in X10". In: *Scalable Computing: Practice and Experience (SCPE)* 16.2 (2015), pp. 169–186. DOI: 10.12694/scpe.v16i2.1088.

#### DISSERTATION

[P7] **Jonas Posner**. "Load Balancing, Fault Tolerance, and Resource Elasticity for Asynchronous Many-Task Systems". PhD thesis. University of Kassel, Germany, 2021. DOI: 10.17170/kobra-202207286542.

#### **CONFERENCES & WORKSHOPS**

- [P8] **Jonas Posner**, Nick Bietendorf, Dominik Huber, Martin Schreiber, and Martin Schulz. "Dynamic Resource Management: Comparison of Asynchronous Many-Task (AMT) and Dynamic Processes with PSets (DPP)". In: *Workshop on Asynchronous Many-Task Systems and Applications (WAMTA*). 2025. To appear. *Slides*.
- [P9] **Jonas Posner**. "The Impact of Evolving APGAS Programs on HPC Clusters". In: *Proceedings Euro-Par Parallel Processing Workshops (DynResHPC)*. 2024. DOI: 10.1007/978-3-031-90200-0\_25. *Slides*.
- [P10] **Jonas Posner**, Raoul Goebel, and Patrick Finnerty. "Evolving APGAS Programs: Automatic and Transparent Resource Adjustments at Runtime". In: *Proceedings Workshop on Asynchronous Many-Task Systems and Applications (WAMTA)*. 2024. DOI: 10.1007/978-3-031-61763-8\_15. *Slides*.
- [P11] **Jonas Posner**, Fabian Hupfeld, and Patrick Finnerty. "Enhancing Supercomputer Performance with Malleable Job Scheduling Strategies". In: *Proceedings Euro-Par Parallel Processing Workshops (PECS)*. Springer, 2023. DOI: 10.1007/978-3-031-48803-0\_14. *Slides*.
- [P12] Patrick Finnerty, Reo Takaoka, Takuma Kanzaki, and **Jonas Posner**. "Malleable APGAS Programs and their Support in Batch Job Schedulers". In: *Proceedings Euro-Par Parallel Processing Workshops (AMTE)*. Springer, 2023. DOI: 10.1007/978-3-031-48803-0\_8. *Slides*.
- [P13] **Jonas Posner** and Claudia Fohry. "Transparent Resource Elasticity for Task-Based Cluster Environments with Work Stealing". In: *Proceedings International Conference on Parallel Processing (ICPP) Workshops (P2S2)*. ACM, 2021, pp. 1–10. DOI: 10.1145/3458744.3473361.
- [P14] **Jonas Posner**, Lukas Reitz, and Claudia Fohry. "Checkpointing vs. Supervision Resilience Approaches for Dynamic Independent Tasks". In: *Proceeding International Parallel and Distributed Processing Symposium (IPDPS) Workshops* (APDCM). IEEE, 2021. DOI: 10.1109/IPDPSW52791.2021.00089.
- [P15] **Jonas Posner**. "System-Level vs. Application-Level Checkpointing". In: *International Conference on Cluster Computing* (CLUSTER). IEEE, 2020, pp. 404–405. DOI: 10.1109/CLUSTER49012.2020.00051.
- [P16] **Jonas Posner**, Lukas Reitz, and Claudia Fohry. "Comparison of the HPC and Big Data Java Libraries Spark, PCJ and APGAS". In: *Proceedings International Conference on High Performance Computing, Networking, Storage and Analysis (SC) Workshops (PAW-ATM)*. ACM, 2018, pp. 11–22. DOI: 10.1109/PAW-ATM.2018.00007.
- [P17] Claudia Fohry, **Jonas Posner**, and Lukas Reitz. "A Selective and Incremental Backup Scheme for Task Pools". In: *Proceedings International Conference on High Performance Computing & Simulation (HPCS)*. 2018, pp. 621–628. DOI: 10.1109/HPCS. 2018.00103.
- [P18] **Jonas Posner** and Claudia Fohry. "A Combination of Intra- and Inter-place Work Stealing for the APGAS Library". In: *Proceedings Parallel Processing and Applied Mathematics (PPAM) Workshops (WLPP)*. Springer, 2018, pp. 234–243. DOI: 10. 1007/978-3-319-78054-2\_22.
- [P19] **Jonas Posner** and Claudia Fohry. "Fault Tolerance for Cooperative Lifeline-Based Global Load Balancing in Java with APGAS and Hazelcast". In: *International Parallel and Distributed Processing Symposium (IPDPS) Workshops (APDCM)*. IEEE, 2017, pp. 854–863. DOI: 10.1109/ipdpsw.2017.31.
- [P20] **Jonas Posner** and Claudia Fohry. "Cooperation vs. Coordination for Lifeline-Based Global Load Balancing in APGAS". In: *Proceedings of the 6th ACM SIGPLAN Workshop on X10*. ACM, 2016, pp. 13–17. DOI: 10.1145/2931028.2931029.
- [P21] Claudia Fohry, Marco Bungart, and **Jonas Posner**. "Towards an Efficient Fault-Tolerance Scheme for GLB". In: *Proceedings of the ACM SIGPLAN Workshop on X10*. ACM, 2015, pp. 27–32. DOI: 10.1145/2771774.2771779.

[P22] Marco Bungart, Claudia Fohry, and **Jonas Posner**. "Fault-Tolerant Global Load Balancing in X10". In: *Proceedings International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)*. IEEE, 2014, pp. 471–478. DOI: 10.1109/synasc.2014.69.

#### **POSTERS & EXTENDED ABSTRACTS**

- [P23] **Jonas Posner**. "Resource Adaptivity at Task-Level". In: *Parallel Applications Workshop, Alternatives To MPI+X (PAW-ATM)*. 2024. DOI: 10.5281/zenodo.14211666. Extended Abstract. *Slides*.
- [P24] **Jonas Posner** and Patrick Finnerty. "Project Wagomu: Elastic HPC Resource Management". In: *ISC High Performance Conference*. 2024. *Poster.*
- [P25] **Jonas Posner**. "Load Balancing, Fault Tolerance, and Resource Elasticity for Asynchronous Many-Task Systems". In: *International Conference on High Performance Computing, Networking, Storage and Analysis (SC)*. 2022. *Poster.*
- [P26] **Jonas Posner**. "Asynchronous Many-Tasking (AMT): Load Balancing, Fault Tolerance, Resource Elasticity". In: *ISC High Performance Conference*. 2022. *Poster*.
- [P27] **Jonas Posner**. "Resource Elasticity at Task-Level". In: *Proceedings International Parallel and Distributed Processing Symposium (IPDPS), Ph.D. Forum.* IEEE, 2021. DOI: 10.1109/IPDPSW52791.2021.00160. Extended Abstract.
- [P28] **Jonas Posner**. "Locality-Flexible and Cancelable Tasks for the APGAS Library". In: *EuroHPC Summit Week*, *PRACEdays*. 2021. *Poster*.
- [P29] **Jonas Posner**. "A Generic Reusable Java Framework for Fault-Tolerant Parallelization with the Task Pool Pattern". In: *International Parallel and Distributed Processing Symposium (IPDPS), Ph.D. Forum.* 2017. *Poster.*

#### **SOURCE CODE & ARTEFACS**

- [P30] **Jonas Posner** and Patrick Finnerty. *Project Wagomu: GitHub—Code Repositories*. URL: https://github.com/ProjectWagomu.
- [P31] **Jonas Posner** and Patrick Finnerty. *Project Wagomu: Zenodo—Artefacts and Slides*. URL: https://zenodo.org/communities/ProjectWagomu.

## Invited Talks

#### **Advances in Applied Computer Science Invited Speaker Series**

02/2025

Invited talk, Los Alamos National Lab (U.S.)

• Title: Transparent Resource Adaptivity for Task-Based Applications on Supercomputers. Slides.

#### **Workshop on Effective Use of Resources on the Computing Continuum**

04/2024

INVITED TALK, KOBE (JAPAN)

• Title: Elastic Runtimes and Applications for HPC Systems

## **Peer-Reviewed Presentations**

## Workshop on Asynchronous Many-Task Systems and Applications (WAMTA)

02/2025

PAPER PRESENTATION, PEER-REVIEWED, St. LOUIS (U.S.)

• Title: Dynamic Resource Management: Comparison of Asynchronous Many-Task (AMT) and Dynamic Processes with PSets (DPP)

### **Supercomputing (SC) Workshops (PAW-ATM)**

11/2024

PRESENTATION, PEER-REVIEWED, ATLANTA (U.S.)

• Title: Resource Adaptivity at Task-Level

## **Euro-Par Workshops (DynResHPC)**

08/2024

PAPER PRESENTATION, PEER-REVIEWED, MADRID (SPAIN)

• Title: The Impact of Evolving APGAS Programs on HPC Clusters

## **ISC High Performance Conference**

05/2024

POSTER PRESENTATION, PEER-REVIEWED, HAMBURG (GERMANY)

• Title: Project Wagomu: Elastic HPC Resource Management

Workshop on Effective Use of Resources on the Computing Continuum  INVITED TALK, KOBE (JAPAN)  • Title: Elastic Runtimes and Applications for HPC Systems	04/2024
Workshop on Asynchronous Many-Task Systems and Applications (WAMTA)  Paper Presentation, Peer-Reviewed, Knoxville (U.S.)  Title: Evolving APGAS Programs: Automatic and Transparent Resources Adjustments at Runtime	02/2024
Euro-Par Workshops (PECS)  Paper presentation, peer-reviewed, Limassol (Cyprus)  Title: Enhancing Supercomputer Performance with Malleable Job Scheduling Strategies	08/2023
Supercomputing (SC), Doctoral Showcases  DISSERTATION PRESENTATION, PEER-REVIEWED, DALLAS (U.S.)  • Title: Load Balancing, Fault Tolerance, and Resource Elasticity for Asynchronous Many-Task Systems	11/2022
<ul> <li>Ph.D. Disputation</li> <li>PRESENTATION AND DEFENSE, UNIVERSITY OF KASSEL (GERMANY)</li> <li>Title: Load Balancing, Fault Tolerance, and Resource Elasticity for Asynchronous Many-Task Systems</li> </ul>	07/2022
ISC High Performance Conference  POSTER PRESENTATION, PEER-REVIEWED, HAMBURG (GERMANY)  Title: Asynchronous Many-Tasking (AMT): Load Balancing, Fault Tolerance, Resource Elasticity	05/2022
International Conference on Parallel Processing (ICPP) Workshops (P2S2)  Paper Presentation, Peer-Reviewed, Online  Title: Transparent Resource Elasticity for Task-Based Cluster Environments with Work Stealing	09/2021
International Parallel and Distributed Processing (IPDPS) Workshops (APDCM)  Paper Presentation, Peer-Reviewed, Online  Title: Checkpointing vs. Supervision Resilience Approaches for Dynamic Independent Tasks	06/2021
Ph.D. Forum International Parallel and Distributed Processing (IPDPS)  POSTER PRESENTATION, PEER-REVIEWED, ONLINE  • Title: Resource Elasticity at Task-Level	06/2021
IEEE Cluster  POSTER PRESENTATION, PEER-REVIEWED, ONLINE  • Title: System-Level vs. Application-Level Checkpointing	09/2020
EuroHPC Summit Week, PRACEdays  POSTER PRESENTATION, PEER-REVIEWED, ONLINE  • Title: Locality-Flexible and Cancelable Tasks for the APGAS Library	03/2020
Supercomputing (SC) Workshops (PAW-ATM)  PAPER PRESENTATION, PEER-REVIEWED, DENVER (U.S.)  • Title: Comparison of the HPC and Big Data Java Libraries Spark, PCJ and APGAS	11/2019
International Conference on High Performance Computing & Simulation (HPCS)  Paper Presentation, Peer-Reviewed, Orléans (France)  Title: A Selective and Incremental Backup Scheme for Task Pools	07/2018
Parallel Processing and Applied Mathematics (PPAM)  PAPER PRESENTATION, PEER-REVIEWED, LUBLIN (POLAND)  Title: A Combination of Intra- and Inter-place Work Stealing for the APGAS Library	09/2017

## Ph.D. Forum International Parallel and Distributed Processing (IPDPS)

06/2017

POSTER PRESENTATION, PEER-REVIEWED, LAKE BUENA VISTA (U.S.)

• Title: A Generic Reusable Java Framework for Fault-Tolerant Parallelization with the Task Pool Pattern

#### International Parallel and Distributed Processing (IPDPS) Workshops (APDCM)

06/2017

PAPER PRESENTATION, PEER-REVIEWED, LAKE BUENA VISTA (U.S.)

• Title: Fault Tolerance for Cooperative Lifeline-Based Global Load Balancing in Java with APGAS and Hazelcast

# **Grant Proposals**.

## The Central Research Fund (ZFF) of the University of Kassel

2022

PROJECT FOR PREPARING AN INDIVIDUAL POSTDOC GRANT PROPOSAL

- Funding: €10,000
- Role: Official applicant
- Status: accepted, run from 09/2022 to 09/2023

#### The HPC-Europa3 program

2020

8-WEEK INTERNSHIP AT THE BARCELONA SUPERCOMPUTING CENTER (BSC)

- Funding: €3,200Role: Official applicant
- Status: accepted, but cancelled due to COVID-19

## **Supercomputing Conference**

2018 and 2021

TRAVEL GRANT

- Funding: €1,000 per yearRole: Official applicant
- Status: accepted

### The Gauss Centre for Supercomputing (GCS), Germany

2024-2025

ACCESS TO THE SUPERMUC-NG HPC CLUSTER AT THE GAUSS CENTRE FOR SUPERCOMPUTING (GCS), GERMANY

- Funding: 100,000 CPU hours per year
- Role: Co-writer of the proposal
- Status: accepted

#### The Center for Scientific Computing (CSC) of the Goethe University Frankfurt

2019-PRESENT

ACCESS TO THE GOETHE-HLR HPC CLUSTER AT THE UNIVERSITY OF FRANKFURT, GERMANY

- Funding: 300,000 CPU hours per year
- Role: Co-writer of the proposals
- Status: accepted annually

#### The University Computer Centre (HRZ) of the Technical University Darmstadt

2023-PRESENT

ACCESS TO THE LICHTENBERG II HPC CLUSTER AT THE TECHNICAL UNIVERSITY DARMSTADT, GERMANY

- Funding: 300,000 CPU hours per year
- Role: Co-writer of the proposals
- Status: accepted annually

Teaching and Supervising	
B.Sc. Lecture: Introduction to Parallel Processing	Summer Semester 2025
<ul> <li>Principal investigator. Topics include shared memory, distributed memory, and GPUs. Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	6 ECTS
M.Sc. Thesis: Evaluating the Performance of the Itoyori AMT using TaskBench	Summer Semester 2025
• First examiner. Duties include preparing the topic, supervising both the technical part and the manuscript, and grading.	30 ECTS
M.Sc. Thesis: Development and Evaluation of a new Resource-Adaptive AMT	Summer Semester 2025
<ul> <li>First examiner. Duties include preparing the topic, supervising both the technical part and the manuscript, and grading.</li> </ul>	30 ECTS
B.Sc. Project: Renewable-Aware Supercomputer Job Scheduling: Malleable Jobs for Nighttime Sustainability	Summer Semester 2025
• Principal investigator. Duties include preparing topics and supervising.	8 ECTS
B.Sc. Thesis: Web Technology Fingerprinting: Methods for identifying Frameworks and Libraries	Summer Semester 2025
Second examiner. Duties include grading.	15 ECTS
B.Sc. Lecture: Programming and Modelling	Winter Semester 2024/2025
<ul> <li>Principal investigator. Duties include giving lectures, organizing exercises, and taking oral exams.</li> </ul>	6 ECTS
B.Sc. Lecture: Design Patterns	Winter Semester 2024/2025
<ul> <li>Principal investigator. Duties include giving lectures, organizing exercises, and taking oral exams.</li> </ul>	6 ECTS
B.Sc. & M.Sc. Seminar: Generative AI in Software and Algorithm Development	Winter Semester 2024/2025
<ul> <li>Principal investigator. Duties include preparing topics and grading student manuscripts as well as presentations.</li> </ul>	6 ECTS
B.Sc. Thesis: Dynamic Resource Management: Comparison of MPI-DPP and APGAS+GLB	Winter Semester 2024/2025
• First examiner. Duties include preparing the topic, supervising both the technical part and the manuscript, and grading.	15 ECTS
B.Sc. Thesis: Simulation and Evaluation of evolving Workloads	Winter Semester 2024/2025
• First examiner. Duties include preparing the topic, supervising both the technical part and the manuscript, and grading.	15 ECTS
B.Sc. Thesis: Simulating Malleable Job Scheduling Algorithms using Real-World	Winter Semester 2024/2025
Supercomputer Trace Logs	Witter Semester 2024/2025
<ul> <li>First examiner. Duties include preparing the topic, supervising both the technical part and the manuscript, and grading.</li> </ul>	15 ECTS
B.Sc. Thesis: Evaluation of Gemini-generated End-To-End and Unit Tests for Web Applications	Winter Semester 2024/2025
• First examiner. Duties include supervising both the technical part and the manuscript, and grading.	15 ECTS

B.Sc. Thesis: Bundler vs. CDN: A comparison of JavaScript delivery methods

regarding performance

• Second examiner. Duties include grading.

15 ECTS

Winter Semester 2024/2025

B.Sc. Lecture: Algorithms and Data Structures	Summer Semester 2024
Duties includes giving exercises as well as creating and correcting weekly worksheets.	6 ECTS
B.Sc. & M.Sc. Seminar: History and Evolution of Supercomputing - From the Beginnings to the Exascale Era	Summer Semester 2024
• <i>Principal investigator.</i> Duties include preparing topics and grading student manuscripts as well as presentations.	6 ECTS
B.Sc. Thesis: Development of a Material Workflow System for Batch Processing of Materials on Virtual Production Systems	Summer Semester 2024
Duties include supervising both the technical part and the manuscript.	15 ECTS
M.Sc. Project: MPI Sessions for Resource Adaptivity	Summer Semester 2024
• Principal investigator. Duties include preparing topics and supervising.	8 ECTS
B.Sc. Lecture: Introduction to Parallel Processing	Winter Semester 2023/2024
<ul> <li>Principal investigator. Topics include shared memory, distributed memory, and GPUs. Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	6 ECTS
B.Sc. Thesis: Evolving Task-based Parallel Programming Systems	Winter Semester 2023/2024
<ul> <li>Duties include preparing the topic and supervising both the technical part and the manuscript.</li> </ul>	15 ECTS
B.Sc. Practical Lecture: Building a Miniature Supercomputer	Summer Semester 2023
• <i>Principal investigator.</i> Full design of this new course. Topics include Linux, git, Docker, and Slurm. Duties include giving lectures, designing exercises, and taking oral exams.	6 ECTS
M.Sc. Thesis: TasGPI: A Global Load Balancing framework for C++	Summer Semester 2023
<ul> <li>Duties include preparing the topic and supervising both the technical part and the manuscript.</li> </ul>	30 ECTS
B.Sc. Thesis: Evaluation of Malleable Job Scheduling Algorithms via Simulations	Summer Semester 2023
<ul> <li>Duties include preparing the topic and supervising both the technical part and the manuscript.</li> </ul>	15 ECTS
manuscript.  B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations	15 ECTS Summer Semester 2023
manuscript.  B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable	
manuscript.  B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations	Summer Semester 2023
<ul> <li>B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations</li> <li>Principal investigator. Duties include preparing topics and supervising.</li> </ul>	Summer Semester 2023 12 ECTS
<ul> <li>B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations</li> <li>Principal investigator. Duties include preparing topics and supervising.</li> <li>B.Sc. Lecture: Introduction to Parallel Processing</li> <li>Responsible for 75% of the lecture. Topics include shared memory and distributed memory.</li> </ul>	Summer Semester 2023  12 ECTS  Winter Semester 2022/2023
<ul> <li>B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations</li> <li>Principal investigator. Duties include preparing topics and supervising.</li> <li>B.Sc. Lecture: Introduction to Parallel Processing</li> <li>Responsible for 75% of the lecture. Topics include shared memory and distributed memory. Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	Summer Semester 2023  12 ECTS  Winter Semester 2022/2023  6 ECTS
<ul> <li>B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations</li> <li>Principal investigator. Duties include preparing topics and supervising.</li> <li>B.Sc. Lecture: Introduction to Parallel Processing</li> <li>Responsible for 75% of the lecture. Topics include shared memory and distributed memory. Duties include giving lectures, designing exercises, and taking oral exams.</li> <li>M.Sc. Lecture: Parallel Programming</li> <li>Responsible for the part "Introduction to Charm++". Duties include giving lectures, designing exercises, and taking oral exams.</li> <li>B.Sc. &amp; M.Sc. Seminar: State-of-the-Art and Trends of High Performance</li> </ul>	Summer Semester 2023  12 ECTS  Winter Semester 2022/2023  6 ECTS  Winter Semester 2022/2023
<ul> <li>B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations</li> <li>Principal investigator. Duties include preparing topics and supervising.</li> <li>B.Sc. Lecture: Introduction to Parallel Processing</li> <li>Responsible for 75% of the lecture. Topics include shared memory and distributed memory. Duties include giving lectures, designing exercises, and taking oral exams.</li> <li>M.Sc. Lecture: Parallel Programming</li> <li>Responsible for the part "Introduction to Charm++". Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	Summer Semester 2023  12 ECTS  Winter Semester 2022/2023  6 ECTS  Winter Semester 2022/2023  6 ECTS
<ul> <li>B.Sc. Project: Evaluation of Real-world Supercomputer Trace Logs with Malleable Job Scheduling Algorithms via Simulations</li> <li>Principal investigator. Duties include preparing topics and supervising.</li> <li>B.Sc. Lecture: Introduction to Parallel Processing</li> <li>Responsible for 75% of the lecture. Topics include shared memory and distributed memory. Duties include giving lectures, designing exercises, and taking oral exams.</li> <li>M.Sc. Lecture: Parallel Programming</li> <li>Responsible for the part "Introduction to Charm++". Duties include giving lectures, designing exercises, and taking oral exams.</li> <li>B.Sc. &amp; M.Sc. Seminar: State-of-the-Art and Trends of High Performance Computing</li> <li>Held in cooperation with a co-worker. Duties include preparing topics and grading student</li> </ul>	Summer Semester 2023  12 ECTS  Winter Semester 2022/2023  6 ECTS  Winter Semester 2022/2023  6 ECTS  Winter Semester 2022/2023

B.Sc. Project: Building a Slurm Cluster using Docker	Winter Semester 2022/2023
• Principal investigator. Duties include preparing the topic and supervising the technical part.	12 ECTS
B.Sc. Project: Installation and Evaluation of several OpenSHMEM Implementations	Winter Semester 2022/2023
• Principal investigator. Duties include preparing the topic and supervising the technical part.	12 ECTS
B.Sc. & M.Sc. Seminar: State of the Art and Trends of High Performance Computing	Summer Semester 2022
<ul> <li>Principal investigator. Duties include preparing topics and grading student manuscripts as well as presentations.</li> </ul>	6 ECTS
B.Sc. Thesis: Integrating of APGAS into the Benchmark Suite TaskBench	Summer Semester 2022
<ul> <li>Duties include preparing the topic and supervising both the technical part and the manuscript.</li> </ul>	15 ECTS
B.Sc. Lecture: Introduction to Parallel Processing	Winter Semester 2021/2022
<ul> <li>Responsible for 25% of the lecture. Topics include distributed memory. Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	6 ECTS
B.Sc. & M.Sc. Seminar: Task-based Parallel Programming-Systems	Winter Semester 2021/2022
<ul> <li>Held in cooperation with a co-worker. Duties include preparing topics and grading student manuscripts as well as presentations.</li> </ul>	6 ECTS
M.Sc. Lecture: Parallel Programming	Summer Semester 2021
<ul> <li>Responsible for the part "Introduction to Charm++". Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	6 ECTS
B.Sc. Lecture: Introduction to Parallel Processing	Winter Semester 2020/2021
<ul> <li>Responsible for 75% of the lecture. Topics include shared memory and distributed memory.</li> <li>Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	6 ECTS
B.Sc. & M.Sc. Seminar: Task-based Parallel Programming-Systems	Winter Semester 2020/2021
<ul> <li>Held in cooperation with a co-worker. Duties include preparing topics and grading student manuscripts as well as presentations.</li> </ul>	6 ECTS
B.Sc. Project: Implementating Benchmarks in Chapel, Legion, and Charm++	Winter Semester 2020/2021
Principal investigator. Duties include preparing topics and supervising.	12 ECTS
M.Sc. Thesis: Implementing a MPI Transport Layer for APGAS	Winter Semester 2020/2021
Duties include preparing the topic and supervising the technical part.	30 ECTS
B.Sc. & M.Sc. Seminar: <i>The Future of Java</i>	Summer Semester 2020
<ul> <li>Held in cooperation with a co-worker. Duties include preparing topics and grading student manuscripts as well as presentations.</li> </ul>	6 ECTS
M.Sc. Thesis: Implementing Resource Elasticity for Global Task Pools in APGAS	Summer Semester 2020
Duties include preparing the topic and supervising the technical part.	30 ECTS
M.Sc. Project: Implementation of Reduce and Broadcast Algorithms with APGAS	Summer Semester 2020
Principal investigator. Duties include preparing topics and supervising.	8 ECTS
B.Sc. Project: Analysis of APGAS programs using Likwid	Summer Semester 2020
<ul> <li>Principal investigator. Duties include preparing topics and supervising.</li> </ul>	12 ECTS

3.Sc. Project: Evaluation of the Naos Network Interface	Summer Semester 2020
Principal investigator. Duties include preparing topics and supervising.	12 ECTS
B.Sc. & M.Sc. Seminar: <i>Java Concurrency</i>	Winter Semester 2019/2020
Held in cooperation with a co-worker. Duties include preparing topics and grading student manuscripts as well as presentations.	6 ECTS
M.Sc. Lecture: Parallel Programming	Winter Semester 2019/2020
Responsible for the part "Introduction to Charm++". Duties include giving lectures, designing exercises, and taking oral exams.	6 ECTS
3.Sc. Lecture: Introduction to Parallel Processing	Summer Semester 2019
Responsible for 50% of the lecture. Topics include distributed memory and GPUs. Duties include giving lectures, designing exercises, and taking oral exams.	6 ECTS
3.Sc. Lecture: Algorithms and Data Structures	Summer Semester 2019
Duties include giving exercises.	6 ECTS
M.Sc. Project: Implementation of Reduce and Broadcast Algorithms with APGAS	Summer Semester 2019
Principal investigator. Duties include preparing the topic and supervising.	8 ECTS
M.Sc. Thesis: Design and Evaluation of a Work Stealing-Based Fault Tolerance Scheme for Task Pools	Summer Semester 2019
Duties include preparing the topic and supervising the technical part.	30 ECTS
3.Sc. Thesis: Isolation of HPC Applications using Shifter and Singularity  Duties include preparing the topic and supervising the technical part.	Summer Semester 2019 15 ECTS
3.Sc. Thesis: Comparison of Charm++ and APGAS  Duties include preparing the topic and supervising the technical part.	Summer Semester 2019  15 ECTS
3.Sc. Thesis: Comparison of Akka and APGAS	Summer Semester 2019
Duties include preparing the topic and supervising the technical part.	15 ECTS
3.Sc. Project: Solving the Travelling Salesmen Problem with APGAS	Summer Semester 2019
Principal investigator. Duties include preparing topics and supervising.	12 ECTS
M.Sc. Lecture: Parallel Programming	Winter Semester 2018/2019
Responsible for the part "Introduction to Charm++". Duties include giving lectures, designing exercises, and taking oral exams.	6 ECTS
3.Sc. & M.Sc. Seminar: <i>Script Languages</i>	Winter Semester 2018/2019
Held in cooperation with a co-worker. Duties include preparing topics and grading student manuscripts as well as presentations.	6 ECTS
3.Sc. Thesis: Logging and Visualization of a Distributed Task Pool	Winter Semester 2018/2019
Duties include preparing the topic and supervising the technical part.	15 ECTS
3.Sc. Project: Solving the Queen Domination Problem with APGAS	Winter Semester 2018/2019
Principal investigator. Duties include preparing topics and supervising.	12 ECTS
3.Sc. Project: Programming with Robocode	Winter Semester 2018/2019
Principal investigator. Duties include preparing topics and supervising.	12 ECTS

B.Sc. Lecture: Introduction to Parallel Processing	Summer Semester 2018
<ul> <li>Responsible for 25% of the lecture. Topics include distributed memory. Duties include giving lectures, designing exercises, and taking oral exams.</li> </ul>	6 ECTS
B.Sc. & M.Sc. Seminar: Java Concurrency	Summer Semester 2018
<ul> <li>Held in cooperation with a co-worker. Duties include preparing topics and grading student manuscripts as well as presentations.</li> </ul>	6 ECTS
M.Sc. Thesis: Using Fibers in APGAS	Summer Semester 2018
Duties include preparing the topic and supervising the technical part.	30 ECTS
B.Sc. Thesis: An Asynchronous Backup Scheme Tracking Work-Stealing for Reduction-Based Task Pools	Summer Semester 2018
• Duties include preparing the topic and supervising the technical part.	30 ECTS
B.Sc. Thesis: Solving the Knapsack Problem with APGAS	Summer Semester 2018
• Duties include preparing the topic and supervising the technical part.	15 ECTS
B.Sc. Project: Installation and Configuration of a Checkpoint/Restart Library	Summer Semester 2018
• Principal investigator. Duties include preparing topics and supervising.	12 ECTS
B.Sc. Project: Regular Applications with APGAS	Summer Semester 2018
Principal investigator. Duties include preparing topics and supervising.	12 ECTS
<ul> <li>B.Sc. Lecture: Introduction to Parallel Processing</li> <li>Responsible for 25% of the lecture. Topics include distributed memory. Duties include giving</li> </ul>	Summer Semester 2017 6 ECTS
lectures, designing exercises, and taking oral exams.	OECIS
B.Sc. Lecture: Introduction to Programming	Winter Semesters 2011–2016
B.Sc. Lecture: Introduction to Programming  Student tutor and homework supervisor.	Winter Semesters 2011–2016 6 ECTS
Student tutor and homework supervisor.	6 ECTS
Student tutor and homework supervisor.  B.Sc. Lecture: Algorithms and Data Structures	6 ECTS Summer Semesters 2012–2016
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> </ul> Service to Profession	6 ECTS  Summer Semesters 2012–2016 6 ECTS
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> </ul>	6 ECTS Summer Semesters 2012–2016
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025  Programming Frameworks and System Software Technical Papers Program Committee Member</li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession</li> <li>Supercomputing Conference 2025</li> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul> </li> <li>Supercomputing Conference 2024</li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession</li> <li>Supercomputing Conference 2025</li> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS  2025
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul> </li> <li>Supercomputing Conference 2024          <ul> <li>Research Posters Committee Member</li> </ul> </li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS  2025
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul> </li> <li>Supercomputing Conference 2024          <ul> <li>Research Posters Committee Member</li> <li>Mentor in the Mentor-Protégé Program</li> </ul> </li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS  2025
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul> </li> <li>Supercomputing Conference 2024          <ul> <li>Research Posters Committee Member</li> <li>Mentor in the Mentor-Protégé Program</li> </ul> </li> <li>Supercomputing Conference 2023          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Birds of a Feather (BoF) Committee Member</li> </ul> </li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS  2025
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul> </li> <li>Supercomputing Conference 2024          <ul> <li>Mentor in the Mentor-Protégé Program</li> </ul> </li> <li>Supercomputing Conference 2023          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> </ul> </li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS  2025
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025  <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul> </li> <li>Supercomputing Conference 2024  <ul> <li>Research Posters Committee Member</li> </ul> </li> <li>Mentor in the Mentor-Protégé Program</li> </ul> <li>Supercomputing Conference 2023  <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Birds of a Feather (BoF) Committee Member</li> <li>HPC Illuminations Pavilion Committee Member</li> <li>Mentor in the Mentor-Protégé Program</li> </ul> </li> <li>Mentor in the Mentor-Protégé Program</li>	6 ECTS  Summer Semesters 2012–2016 6 ECTS  2025
<ul> <li>Student tutor and homework supervisor.</li> <li>B.Sc. Lecture: Algorithms and Data Structures</li> <li>Student tutor and homework supervisor.</li> <li>Service to Profession  Supercomputing Conference 2025          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Research Posters Committee Member</li> </ul> </li> <li>Supercomputing Conference 2024          <ul> <li>Research Posters Committee Member</li> <li>Mentor in the Mentor-Protégé Program</li> </ul> </li> <li>Supercomputing Conference 2023          <ul> <li>Programming Frameworks and System Software Technical Papers Program Committee Member</li> <li>Birds of a Feather (BoF) Committee Member</li> <li>HPC Illuminations Pavilion Committee Member</li> </ul> </li> </ul>	6 ECTS  Summer Semesters 2012–2016 6 ECTS  2025  2024

• Reviewer for the Student Volunteers Program

Supercomputing Conference 2021	2021
<ul> <li>Lead Student Volunteer (SCALE)</li> <li>Birds of a Feather (BOF) Committee Member</li> <li>Guided Group of Interest (GIG) Committee Member</li> <li>Reviewer for the Student Volunteers Program</li> </ul>	
Guest Editor	2025
• Invited Editor for the journal "Recent advances in Asynchronous Many Task Runtime Systems" published in Springer Nature Computer Science	
University of Kassel	2022
<ul> <li>Selection committee member for the professorship Automation and Sensor Technology in Network Systems</li> </ul>	
Program Committee Member	2018-PRESENT
<ul> <li>Workshop on Dynamic Resources in HPC (DynResHPC) at EuroPar (2025)</li> <li>Parallel Applications Workshop, Alternatives To MPI+X (PAW-ATM) at SC. Artifact Evaluation (2025)</li> <li>ISC High Performance Workshops (2024)</li> <li>International Conference on Compiler Construction (CC) Artifact Evaluation (2024)</li> <li>Workshop on Language-Based Parallel Programming Models (WLPP) at PPAM (since 2024)</li> <li>Workshop on Asynchronous Many-Task Systems and Applications (WAMTA) (since 2024)</li> <li>Workshop on Asynchronous Many-Task Systems for Exascale (AMTE) at EuroPar (since 2024)</li> <li>Workshop on Performance and Energy Efficiency in Concurrent and Distributed Systems (PECS) at HPDC (2024)</li> <li>Workshop on Advances in Parallel and Distributed Computational Models (APDCM) at IPDPS (since 2018)</li> </ul>	
<ul> <li>International Symposium on Computing and Networking (CANDAR) (2018—2023)</li> </ul>	
International Symposium on Computing and Networking (CANDAR) (2018—2023)  Invited Reviewer	2018-PRESENT
	2018-PRESENT
Invited Reviewer  • EuroHPC Posters and Demos  • Concurrency and Computation: Practice and Experience  • Future Generation Computer Systems (FGCS)  • The Journal of Supercomputing	2018-PRESENT 2019-2021
Invited Reviewer  • EuroHPC Posters and Demos  • Concurrency and Computation: Practice and Experience  • Future Generation Computer Systems (FGCS)  • The Journal of Supercomputing  • International Journal of Networking and Computing (IJNC)	
Invited Reviewer  • EuroHPC Posters and Demos  • Concurrency and Computation: Practice and Experience  • Future Generation Computer Systems (FGCS)  • The Journal of Supercomputing  • International Journal of Networking and Computing (IJNC)  Lead Student Volunteer  • Supercomputing Conference, SC21, St. Louis (U.S.)  • Supercomputing Conference, SC20, online	
Invited Reviewer  EuroHPC Posters and Demos Concurrency and Computation: Practice and Experience Future Generation Computer Systems (FGCS) The Journal of Supercomputing International Journal of Networking and Computing (IJNC)  Lead Student Volunteer Supercomputing Conference, SC21, St. Louis (U.S.) Supercomputing Conference, SC20, online Supercomputing Conference, SC19, Denver (U.S.)  Student Volunteer ISC High Performance, ISC19, Frankfurt (Germany) Supercomputing Conference, SC18, Dallas (U.S.) Supercomputing Conference, SC17, Denver (U.S.)	2019-2021
Invited Reviewer  • EuroHPC Posters and Demos  • Concurrency and Computation: Practice and Experience  • Future Generation Computer Systems (FGCS)  • The Journal of Supercomputing  • International Journal of Networking and Computing (IJNC)  Lead Student Volunteer  • Supercomputing Conference, SC21, St. Louis (U.S.)  • Supercomputing Conference, SC20, online  • Supercomputing Conference, SC19, Denver (U.S.)  Student Volunteer  • ISC High Performance, ISC19, Frankfurt (Germany)  • Supercomputing Conference, SC18, Dallas (U.S.)	2019-2021
Invited Reviewer  EuroHPC Posters and Demos Concurrency and Computation: Practice and Experience Future Generation Computer Systems (FGCS) The Journal of Supercomputing International Journal of Networking and Computing (IJNC)  Lead Student Volunteer Supercomputing Conference, SC21, St. Louis (U.S.) Supercomputing Conference, SC20, online Supercomputing Conference, SC19, Denver (U.S.)  Student Volunteer ISC High Performance, ISC19, Frankfurt (Germany) Supercomputing Conference, SC18, Dallas (U.S.) Supercomputing Conference, SC17, Denver (U.S.)	2019-2021
Invited Reviewer  EuroHPC Posters and Demos  Concurrency and Computation: Practice and Experience  Future Generation Computer Systems (FGCS)  The Journal of Supercomputing International Journal of Networking and Computing (IJNC)  Lead Student Volunteer  Supercomputing Conference, SC21, St. Louis (U.S.)  Supercomputing Conference, SC20, online  Supercomputing Conference, SC19, Denver (U.S.)  Student Volunteer  ISC High Performance, ISC19, Frankfurt (Germany)  Supercomputing Conference, SC18, Dallas (U.S.)  Supercomputing Conference, SC17, Denver (U.S.)  Further Scientific Qualifications  Training as an Education Coach  University of Kassel, Germany	2019-2021
Invited Reviewer  EuroHPC Posters and Demos Concurrency and Computation: Practice and Experience Future Generation Computer Systems (FGCS) The Journal of Supercomputing International Journal of Networking and Computing (IJNC)  Lead Student Volunteer Supercomputing Conference, SC21, St. Louis (U.S.) Supercomputing Conference, SC20, online Supercomputing Conference, SC19, Denver (U.S.)  Student Volunteer ISC High Performance, ISC19, Frankfurt (Germany) Supercomputing Conference, SC18, Dallas (U.S.) Supercomputing Conference, SC17, Denver (U.S.)  Further Scientific Qualifications  Training as an Education Coach UNIVERSITY OF KASSEL, GERMANY Period of one year with a total of 80 hours of training	2019-2021
Invited Reviewer  EuroHPC Posters and Demos  Concurrency and Computation: Practice and Experience  Future Generation Computer Systems (FGCS)  The Journal of Supercomputing International Journal of Networking and Computing (IJNC)  Lead Student Volunteer  Supercomputing Conference, SC21, St. Louis (U.S.)  Supercomputing Conference, SC20, online  Supercomputing Conference, SC19, Denver (U.S.)  Student Volunteer  ISC High Performance, ISC19, Frankfurt (Germany)  Supercomputing Conference, SC18, Dallas (U.S.)  Supercomputing Conference, SC17, Denver (U.S.)  Further Scientific Qualifications  Training as an Education Coach  University of Kassel, Germany	2019-2021

Qualification Program quali.prof@haw: On the Way to a Professorship	2022-2023
University of Applied Sciences Fulda and University of Kassel, Germany	
Comprising the following modules:	
Leadership: Time Management and Communication for Leaders	
HAW Professorship Expert Discussions	
<ul> <li>University Governance: Current Developments and Challenges of the University Landscape</li> </ul>	
Design and Management of Application-Related Projects	
Efficient Parallel Programming with GASPI	2022
PRACE, ONLINE	
DFG Proposal Writing Workshop	2022
University of Kassel, Germany	
Programming Distributed Computing Platforms with COMPSs	2021
PRACE, ONLINE	
Parallelization with MPI and OpenMP	2020
PRACE, ONLINE	
Marie Sklodowska-Curie Actions (MSCA) Postdoctoral Fellowships	2020
University of Kassel, Germany	
Role Management in Science: Responsibly Shaping Working Relationships Shape	2020
University of Kassel, Germany	
Postdoc Wanted-Planning and Optimizing your University Career	2019
University of Kassel, Germany	
Grant Proposal Writing	2019
University of Kassel, Germany	
Professional Memberships	
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2017-PRESENT

**ACM Member**