

Philipp Leitner

Associate Professor (Docent) of Software Engineering
Chalmers University of Technology | University of Gothenburg, Sweden
philipp.leitner@chalmers.se | philippleitner.net

EDUCATION

Oavläsnad Docent in Software Engineering Chalmers University of Technology	Jun. 2019
PhD Business Informatics Vienna University of Technology Thesis: <i>On Preventing Violations of Service Level Agreements in Composed Services using Self-Adaptation</i> . Advisor: Prof. Schahram Dustdar	Oct. 2007 – Oct. 2011
MSc Business Informatics Vienna University of Technology	Nov. 2005 – Sep. 2007
BSc Business Informatics Vienna University of Technology	Oct. 2002 – Oct. 2005

CURRENT AND PREVIOUS EMPLOYMENT

Associate Professor Chalmers University of Technology University of Gothenburg Tenured faculty (“docent”). Unit Manager “Software Engineering 2” (~25 staff), 2022–2025. Research lead of the Internet Computing and Emerging Technologies (ICET) lab.	Since Oct. 2019
Assistant Professor Chalmers University of Technology University of Gothenburg Tenure-track position; part of the ICT Area of Advance.	Aug. 2017 – Oct. 2019
Senior Research Associate University of Zurich Research team leader “cloud-based software engineering”. PI for SNF project MINCA and Co-PI for Hasler DevCloud and FP7 CloudWave.	Jan. 2014 – Jul. 2017
Postdoctoral Researcher Vienna University of Technology Research on cloud computing and middleware. Taught graduate courses <i>Advanced Internet Computing</i> and <i>Distributed Systems Technologies</i> . Supervised multiple master’s students.	Nov. 2011 – Dec. 2013
Research and Teaching Assistant Vienna University of Technology Research on service-based systems engineering. Teaching assistant for various courses.	Oct. 2007 – Oct. 2011
Research Software Engineer Siemens PSE, Vienna Industrial research in the area of telecommunications and network management.	Jul. 2005 – Sep. 2007
Research visits: Institute of High-Performance Computing, Singapore (Feb./Mar. 2013); University of Stuttgart, Germany (Apr. 2010).	

ORGANISATION AND MANAGEMENT

I have extensive experience in academic leadership and research management at different levels, ranging from unit-level line management and programme administration to research group leadership and large-scale project coordination. As unit manager at Chalmers, I was

responsible for the strategic direction, staffing, and budget of a unit of ~25 researchers and educators.

- **Unit Manager** “Software Engineering 2” (~25 staff), Chalmers | University of Gothenburg, 2022–2025
- **Research lead** of the Internet Computing and Emerging Technologies (ICET) lab at Chalmers
- **Master Programme Administrator**, Software Engineering, Chalmers | University of Gothenburg, 2021
- **Member of the Faculty Senate Drafting Board**, IT Faculty, University of Gothenburg, 2021–2024
- **Research team leader** “cloud-based software engineering” at the University of Zurich, 2014–2017
- **PI/Co-PI** for multiple research projects: SNF MINCA (sole PI), Hasler DevCloud (Co-PI), FP7 CloudWave (Co-PI)
- **Program Co-Chair**, 13th ACM/SPEC International Conference on Performance Engineering (ICPE 2022)
- **General Chair**, 1st International Workshop on Monitoring and Prediction of Cloud Services (MoPoC), co-located with ICSSOC 2012
- **Co-organizer**, Dagstuhl GI Seminar on *Software Performance Engineering in the DevOps World* (2016); Vienna Software Seminars (VSS)
- **Steering Committee member**, International Workshop on Quality-Aware DevOps (QU-DOS), since 2018
- Successfully acquired grants totalling ~**3.2M EUR** as sole or co-applicant (VR, WASP, VINNOVA, SNF, Hasler, Chalmers AoA)

DOCENTSHIP

Oavlonad Docent in Software Engineering, Chalmers University of Technology, June 2019. The docentship is based on an external evaluation of scientific and pedagogical merits, comparable to a Habilitation.

SUPERVISION

Current PhD students (3):

- Lirong (Esme) Yi – Optimizing Performance using Large Language Models (main supervisor)
- Ranim Khojah – Large Language Models in Software Engineering (co-supervisor)
- Linda Erlenhov – Bots in Software Development (main supervisor)

All at Chalmers | University of Gothenburg.

Graduated PhD students (7):

- Huaifeng Zhang – Debloating ML Systems (co-supervisor, Chalmers)
- Hazem Samoa – ML for Performance Prediction (Chalmers)
- Hamdy Michael Ayas – Architectural Decision Making in Cloud Computing (Chalmers)
- Joel Scheuner – Cloud Benchmarking (Chalmers)
- Christoph Laaber – Microbenchmarking in CI Builds (co-supervised with H.C. Gall, UZH)
- Gerald Schermann – Continuous Experimentation (co-supervised with H.C. Gall, UZH)
- Jürgen Cito – Cloud Performance Engineering (co-supervised with H.C. Gall, UZH; now Assoc. Prof. at TU Wien)

Supervised 20+ master’s theses at Chalmers/GU, University of Zurich, and TU Vienna.

EXPERT ASSIGNMENTS

- Associate Editor, Springer *Empirical Software Engineering* (EMSE)

- Academic Editor, PeerJ Computer Science (until 2024)
- Editorial Board Member, Elsevier *Journal of Systems and Software* (JSS), 2017–2019
- Special Issue Editor: IEEE Cloud Computing; Software: Practice and Experience (SPE)
- Grant reviewer for: Research Council of Finland (RCF), Dutch Research Council (NWO), NSERC (Canada), DAAD (Germany), FNR (Luxembourg), NRD (Hungary), WASP
- Chair, SPEC Kaivalya Dixit Distinguished Dissertation Award selection committee (2022)
- PhD committee appointments (9), including faculty opponent (Umeå University), external examiner (Imperial College London), assessor (Università degli Studi dell'Aquila), and grading committee member at KTH, Umeå, Chalmers, and Lund University
- PC memberships: ICSE, FSE, ASE, SoCC, MSR, SANER, ICSME, ICPE, Alware, and others

INVITED TALKS

Selected keynotes and invited talks:

- Keynote, *A Brief Journey Through History – From Distributed Objects over SOA to Microservices*, International Conference on Enterprise Information Systems (ICEIS), April 2025
- Keynote, *A Brief Journey Through History – From Distributed Objects over SOA to Microservices*, International Conference on Cloud Computing and Services Science (CLOSER), April 2025
- Invited talk, *Measuring, Predicting, and Improving the Performance of Software Systems*, Department Colloquium, Institute for Informatics, University of Zurich, November 2024
- Invited talk, *Bots in Software Engineering*, WASP4All Webinar, May 2022
- Invited talk, *Unit testing performance using code microbenchmarks*, MongoDB Inc. Performance Seminar, November 2020
- Invited lecture, *Performance Testing of and in the Cloud*, IDEA League Doctoral School on Engineering Complex Systems, September 2018
- Seminar, *Predictability of Performance in Public Clouds*, IBM Research Ireland, November 2017
- Two talks at IIT Delhi and IIT Ropar, by invitation of the Swiss Embassy in India, November 2015

OTHER RELEVANT DISTINCTIONS AND MERITS

- Distinguished Reviewer Award, ICSE 2023
- Best Reviewer Award, SANER 2022
- Distinguished Reviewer Awards, ICSME 2020 and MSR 2020
- Outstanding Reviewer Awards, ICPE 2019 and 2020
- Best Student Paper Award, Middleware 2016
- Best Short Paper Award, ICPC 2016
- ~125 peer-reviewed publications; h-index 48 (Google Scholar)
- Member of the Habilitation Committees of Ivona Brandic (2013) and Karl Michael Göschka (2012) at TU Vienna
- Grants totalling ~3.2M EUR as sole or co-applicant, including VR Project Grant (2025–2029), VR Starting Grant (2019–2022), 3× WASP PhD grants, VINNOVA FFI TrafCloud, Chalmers AoA Startup Package, SNF MINCA, and Hasler DevCloud

INTELLECTUAL PROPERTY RIGHTS

Not applicable.