

CURRICULUM VITAE

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EMPLOYMENT

Nov. 2023 Positive interim evaluation of the Heisenberg grant
2021-2026 **Heisenberg research fellowship** (national scholarship grant at the level of associate research professor, 5 years, TV-L E15), research group at Universität Regensburg
2020-2021 **Visiting professor**, Dept. of Applied Physics, Aalto University, Espoo, Finland
2018-2019 Senior researcher / Privatdozent, Universität Regensburg
2018 **Substitute full professor** (Lehrstuhlvertretung), Universität Regensburg
2010-2017 **Principal investigator, Emmy Noether research group** (national scholarship grant, approx. assistant research professor with group) on carbon nanotube NEMS, Universität Regensburg
2009-2010 **Senior researcher** (Akad. Rat) in the research group of Prof. Dr. Ch. Strunk, Department for physics of micro- and nanostructures, Universität Regensburg, Germany
2006-2008 **Post-doctoral researcher** in the research group of Prof. Dr. H. van der Zant, Molecular Electronics and Devices, Technische Universiteit Delft, The Netherlands
2001-2005 **Research assistant** (Wissenschaftl. Mitarbeiter) in the experimental nanophysics group, Prof. Dr. J. P. Kotthaus, Ludwig-Maximilians-Universität München, Germany

EDUCATION

Feb. 2024 Qualification Français C. Professeur des Universités, Sect. 28 Milieux denses et matériaux
March 2017 **Habilitation as Dr. rer. nat. habil.**, vena legendi in Physics (**Privatdozent**), Univ. Regensburg
August 2005 **Graduated as Dr. rer. nat.**, grade „summa cum laude“ (~ with distinction)
2001-2005 **Ph.D. student** and research assistant in the experimental nanophysics group, Prof. Dr. J. P. Kotthaus, Dr. R. Blick / Dr. S. Ludwig, Ludwig-Maximilians-Universität München, Germany
Feb. 2001 **Graduated as Dipl.-Phys.** (~ M. Sc.), grade 1.0 (excellent), with distinction
1997-1998 **Visiting student at University of Oxford**, Lady Margaret Hall
Research project under Dr. Artur Ekert on the theory of quantum error correction codes
1994-2001 **Study of physics** at the Ludwig-Maximilians-Universität München, Germany
1994 Graduated from „Gymnasium“ (~ high school), grade 1.0 (excellent)

PRIZES and SCHOLARSHIPS

Nov. 2020 **Walter Schottky Prize 2021 of the German Physical Society**
May 2020 **Heisenberg research fellowship of the DFG**
2010-2017 principal investigator in the **Emmy Noether program of the DFG**
2001-2005 **Ph.D. scholarship** of the German National Academic Foundation
1994-2001 **Scholarships** of the German National Academic Foundation
(<https://www.studienstiftung.de/>) and the Maximilianeum Foundation
(<https://www.stiftung-maximilianeum.com/>).

RESEARCH FUNDING and GRANTS

2021-2026 DFG **Heisenberg grant** and research grants Hu 1808/4,5,6, **900k€**, sole applicant and PI
2016 State instrumentation grant, 90k€, primary applicant, joint with Prof. C. Strunk
2011-2015 DFG SFB631, project A11, 370k€, PI joint with Prof. C. Strunk
2010-2017 DFG SFB689, project A1, 1.130k€, PI joint with Prof. C. Strunk and Prof. M. Grifoni
2010-2017 DFG **Emmy Noether grant** Hu 1808/1, **1.200k€**, sole applicant and PI

STUDY / EMPLOYMENT ABROAD

2020-2021 Visiting professor, **Aalto University**, Espoo, Finland
2006-2008 Post-doctoral researcher, **Technische Universiteit Delft**, The Netherlands
1997-1998 Visiting student, **University of Oxford**, Lady Margaret Hall, United Kingdom

RESEARCH INTERESTS

Transport spectroscopy of novel low-dimensional quantum materials
Nano-electromechanics, single electron effects in mechanics, and the mechanical quantum limit
Hybrid mesoscopic semiconductor / superconductor devices
GHz / mK technology, microwave optomechanics, and quantum information; low temperature physics

CITATION METRICS, Web of Science and Google Scholar (in brackets)

Web of Science documents: 49
Sum of the times cited: 1640 (2477)
h-index: 16 (22)
Sources (3 July 2025): <https://www.webofscience.com/wos/author/record/C-2400-2008>
<https://scholar.google.de/citations?hl=en&user=KQ1efUkAAAAJ>

VISIBILITY

Frequent active participation in international scientific conferences
So far ca. 20 invited talks, ca. 30 contributed talks, ca. 50 poster presentations

TEACHING MERITS

Official **supervisor** of so far 7 PhD students, 27 MSc/Diploma students, 8 BSc students
Experience with **undergraduate lectures** (Physics 1 and 2 for chemists; experimental demonstrations, problem classes, up to 100 participants) and **graduate lectures** (Low temperature physics)
Experience with **IT education** (Programming with Perl 5); organization of **journal clubs**
Active in terms of popular science publication and public relations work

TECHNICAL EXPERTISE

Design, implementation, and analysis of mesoscopic low-temperature transport measurements
Transport spectroscopy, motion detection in nano-electromechanical systems
GHz superconducting coplanar resonators, GHz / mK technology, microwave optomechanics
Low-temperature physics and technology; running, extending, and repairing ^3He / ^4He dilution refrigerators
Clean room nanofabrication and characterization; CVD growth of carbon nanotubes

REVIEWER ACTIVITIES

Grant proposals for DFG, ERC Advanced Grant, Israel Science Foundation, Swiss National Science Foundation, Alexander von Humboldt Foundation
Many scientific journals including Physical Review Letters, Nano Letters, Nature Communications

LANGUAGE SKILLS

German:	native language	English:	proficient, writing and speaking
French:	intermediate	Dutch:	basic knowledge
Latin, ancient Greek: high school (9 / 5 years)			

NON-WORK INTERESTS

World-wide English language literature, photography, mountain hiking; ancient cultures and archaeology
Volunteer work as **Gentoo Linux** developer; on elected steering body „Gentoo Council“ since 2013; Gentoo Foundation board member since 2023 and president since 2024; team lead “Community Relations”, “Toolchain”, “Perl”; active in “Base system”, “Release Engineering”, “Public Relations” and other teams
Volunteer release manager for the **GNU C Library** since 2023

SHORTLIST PLACEMENTS

Professeur des Universités, Materials physics and quantum devices in high magnetic fields, **INSA and High Magnetic Field National Laboratory (LNCMI), Toulouse**: position 2
Associate or Full Professor, **Zhejiang University / University of Illinois at Urbana-Champaign Institute for Engineering**: in-person interview talk given
Full Professor, Center of Advanced Quantum Studies (CAQS), Department of Physics, **Beijing Normal University**: in-person interview talk given
Associate Professor in Semiconductor Physics, Dept. of Physics, **University of Oslo**: position 2
University professor (W2) for Experimental Physics / Material Science, Nanotechnology and Nanomechanics, tenured position, **University of Augsburg**: position 2