

Date of birth: 14 Jul 1999 | **Place of birth:** Gelsenkirchen, Germany | **Nationality:** German | **Gender:** Male | **Email address:**

work@woite.xyz | **Website:** www.woite.xyz | **Address:** Rathenastr., 5, Hinterhaus, 12459, Berlin, Germany (Home)

ABOUT ME

Computational chemist with experience in quantum-chemical method development, C++/Python programming, molecular simulation, scientific software, and HPC workflows. Developed and implemented algorithms for strongly correlated systems and solvation models, coordinated interdisciplinary collaborations, supervised students, and presented technical results to international audiences. Interested in computational R&D, scientific software, field applications, and technically oriented customer-facing roles. Particularly motivated by translating complex scientific concepts into clear solutions for customers, collaborators, and non-specialist audiences.

EDUCATION AND TRAINING

CURRENT Berlin, Germany

DR RER. NAT. (SUBMITTED) Humboldt-Universität zu Berlin

Led the end-to-end development and implementation of a physically motivated methodology, including implementation and integration into a scientific computing package, computational validation, numerical simulation, performance benchmarking, and analysis of application-driven results

Level in EQF EQF level 8

Bochum, Germany

MASTER OF SCIENCE Ruhr-Universität Bochum

Completed a master's thesis involving the design, execution, and analysis of numerical simulations for bromine(III) and biomimetic copper compounds

Level in EQF EQF level 7

Bochum, Germany

BACHELOR OF SCIENCE Ruhr-Universität Bochum

Conducted the synthesis, computational modelling, and spectroscopic characterization of a bisimine through involved vibrational spectroscopical measurements in solution and argon matrix.

Level in EQF EQF level 6

WORK EXPERIENCE

UNIVERSITY RESEARCH ASSISTANT – HUMBOLDT-UNIVERSITÄT ZU BERLIN – 11 Oct 2021 – 31 Aug 2026 – BERLIN, GERMANY

Publishing scientific papers, contribute to multiple open-source projects, managing and teaching bachelor and master students' thesis and teaching university students in context of the mathematics lecture.

SKILLS

Academic

teach in academic or vocational contexts | communicate with a non-scientific audience | write scientific publications | Scientific Communication | scientific literature | perform scientific research

Personal

prepare visual data | Team-work oriented | Interdisciplinary | think abstractly | give constructive feedback

Management

Organizational and planning skills | Managing Projects | make data-driven decisions | Analytical skills

IT

manage quantitative data | run simulations | Parallel computing in HPC environment | C++ | Python (computer programming)

VOLUNTEERING

2023 – 2025 Berlin
Treasurer of JCF-Berlin

Managed the financial administration of JCF-Berlin and established relationships with local companies to secure event sponsorships.

LANGUAGE SKILLS

Mother tongue(s): **GERMAN**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C2	C2
RUSSIAN	B1	B2	B1	B2	B2
ARABIC	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CERTIFICATIONS

openHPI, 28 Nov 2020
Programmieren lernen mit Python

Basics of the programming language in a four-week hands-on course, leading to the independent development of complex programming solutions.

Mode of learning: Online

openHPI, 28 Sep 2020
Künstliche Intelligenz und maschinelles Lernen für Einsteiger

Definition and differences between AI and traditional programming, with focus on models and techniques connected to supervised learning. Including chances, risks, and ethical considerations when employing AI.

Mode of learning: Online

CONFERENCES AND SEMINARS

2023 Pisa
Summer School "Modern Wavefunction-Based Methods in Electronic Structure Theory"

Specialized training and hands-on experience with scientific software and computational simulation workflows, complemented by professional networking in an international research environment.

2022 – 2025 Heidelberg, Baunschweig, Berlin
Symposium on Theoretical Chemistry

Presented research at theoretical chemistry conferences, communicated scientific findings to a professional audience, attended expert presentations, and expanded academic connections through networking.

2022 Berlin
Berliner Chemie in Praxis Symposium

Presented research at a conference, communicated scientific findings to a mixed audience of professionals and students.

ATCHLETIC ACHIEVMENTS

2016
Competitive swimming

Competitive swimming with SV Buer and SG Gelsenkirchen until 2016.

2025
Endurance sports

Participant in the Berlin Triathlon and Life-Run in 2025.

PUBLICATIONS

2022

[Synthesis of an Fe\(terpy-cage\)₂ dumbbell](#)

RSC Adv. (2022) 12 (6): 3402–3405.

Authors: Frederic Dournel, Massoud Koshan, Philipp Woite, Michael Roemelt, Matthias Otte | **Journal Name:** RSC Adv.

2022

[Electrochemistry and Reactivity of Chelation-stabilized Hypervalent Bromine\(III\) Compounds](#)

Chem. Eur. J. (2022) 28: e202200974.

Authors: N. Mohebbati, I. Sokolovs, P. Woite, M. Lökov, E. Parman, M. Ugandi, I. Leito, M. Roemelt, E. Suna, R. Francke | **Journal Name:** Chem Eur J.

2022

[A Copper Cage-Complex as Mimic of the pMMO CuC Site](#)

Angew. Chem. Int. Ed. 2022, 61, e202206120; Angew. Chem. (2022) 134, e202206120.

Authors: Sarah C. Bete, Leander K. May, Philipp Woite, Prof. Dr. Michael Roemelt, Dr. Matthias Otte | **Journal Name:** Angew. Chem. Int. Ed. & Angew. Chem.

2023

[Two Allogons of an O₂-activating Bis\(disiloxido\)ferrate\(II\) Accessible Selectively just by Variation of the Crystallization Temperature](#)

Chem. Eur. J. 2024, 30, e202303614

Authors: Fabian Beckmann, Philipp Woite, Stefan Yelin, Dustin Kass, Denis Usvyat, Michael Roemelt, Christian Limberg | **Journal Name:** Chem. Eur. J.

2025

[Sequential one-pot N-alkylation and aminocarbonylation of primary amines catalyzed by heterobimetallic Ir/Pd complexes](#)

Chem. Sci. 2025; 16 (41): 19414–19422.

Authors: Amin Abdolrahimi, Philipp Woite, Konrad Kretschmar, Michael Roemelt, Thomas Braun, Ouchan He | **Journal Name:** Chem. Sci.

2025

[Adhesive-tuning with aromatic dithiols in thiol-quinone Michael polyadditions to tailor thiol-catechol connected \(TCC\) polymers](#)

Polym. Chem. 2025; 16 (44): 4795–4803.

Authors: Ching-Yi Choi, Lukas D. Bangert, Leon Hertweck, André Dallmann, Philipp Woite, Michael Roemelt, Hans G. Börner | **Journal Name:** Polym. Chem.