

Christina Ertural

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QuantumChemist

Née Christina Zitlau, 30 January 1992 in Zavety Ilyicha, Russia Nationality: German

CAREER

September 2022 – present

Postdoctoral Researcher

BAM Federal Institute for Materials Research and Testing in Germany (Materials chemistry, Junior group George)

- Field of research: Materials Informatics, Development of software tools to enhance and accelerate *ab initio* calculations using automated workflows and machine-learned interatomic potentials
- Python workflow software development

ACADEMIC EDUCATION

December 2017 - July 2022

Doctoral degree (Dr. rer. nat.) in Chemistry

Chair of Solid-State and Quantum Chemistry, Institute of Inorganic Chemistry, RWTH Aachen University (Research group Dronskowski)

- Doctoral thesis: On the electronic structure of solid-state functional materials and their characterization using local bonding indicators (German)
- LOBSTER software development in C++ (cohp.de)

2015 - 2017 **Master's**

Master's degree in Chemistry

Department of Chemistry, RWTH Aachen University

Master thesis: Quantum Monte Carlo-based Full Wave Function Optimization for Transition Metal Compounds (English)
 Institute of Physical Chemistry

2011 - 2017

Bachelor's degree in Chemistry

Department of Chemistry, RWTH Aachen University

 Bachelor thesis: Optimization of the Reaction Conditions for the Synthesis of Poly-Diacetylene Stabilized Gold Nanoparticles (German)
 Institute of Inorganic Chemistry

LANGUAGES

German (native), English (fluent)

FURTHER EXPERIENCE

Software and Coding Skills

- Languages: C++, Python, bash (Advanced)
- *Ab initio* software: LOBSTER (former developer), VASP (Advanced), Quantum ESPRESSO, ABINIT, Gaussian, Molpro (Basic)
- Graphic tools: Adobe Illustrator, CorelDRAW (Advanced)

Workshops

• HPC Tuning Workshop – Introduction to Performance Engineering and Analysis (aiXcelerate 2019)

Further skills

Workshop and event organizing: LOBSTER schools, Berlin PostDoc Day 2023