



Paul Jakob Lobpreis | M.Sc.

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Materials scientist and engineer with a background in chemistry

Professional Experience

University of Siegen, Chair of Micro- and Nanoanalytics

Siegen

Research Associate

04/2025 – present

- PhD student combining TEM, 4D-STEM, and HPC data analysis to study complex materials

University of Siegen, Chair of Surface and Materials Technology

Siegen

Research & Teaching Assistant

03/2023 – 07/2024

- Supervision of lab courses on thin film technology
- Maintenance of CVD and PVD systems

Dynamit Nobel Defence GmbH

Wilnsdorf

Working Student

01/2024 – 03/2024

- R&D Scientist in the working group 'Materials, Chemistry and Processes'

University of Siegen, Chair of Chemistry & Structure of novel Materials

Siegen

Research Assistant

05/2022 – 03/2023

- R&D of Ultra High Performance Concrete (UHPC) as part of a third-party funded project (ceEntek Pte. Ltd.)

Metro AG

Siegen

Working student in Wholesale

11/2019 – 05/2022

- Shelf stocking, quality assurance, and customer management

Education

M.Sc. Materials Science and Engineering

Siegen

University of Siegen

2022 – 2025

- Specialization in Coating Technology, Solid State Chemistry, and Micro- and Nanoanalytics
- Master's thesis: 'Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM) Analysis of NiCu alloy using py4DSTEM on High Performance Computing Cluster'

B.Sc. Chemistry

Siegen

University of Siegen,

2017 – 2022

- Specialization in Materials Chemistry
- Bachelor's thesis: 'Elektronenmikroskopische Untersuchung der Hydratationsprodukte von Tricalciumsilikat'

Publications & Presentations

- [1] Paul Lobpreis. *Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM) Utilizing a CMOS Camera*. Poster presented at the Microscopy Conference (MC2025), Karlsruhe, Germany. Sept. 2025.

IT Skills

Data Visualization: Matplotlib, PGF/TikZ

Programming Languages: Python

Typesetting: L^AT_EX, MS Office

CAD: SolidWorks

Languages

German: Native

English: C1 (UNIcert III)

Others

Team Sports: Handball player at TSG Siegen