

EDUCATION

- since 07/2025 **PhD in Organic Chemistry** *University of Freiburg*
 - with T. Schnitzer on data-driven catalyst design for sustainable amide synthesis using arylboronic acids
 - fellowship of the German Federal Environmental Foundation (DBU)
- 10/2022 – 02/2025 **Master of Science in Chemistry** *University of Freiburg*
 - master thesis with T. Schnitzer on "An AI Based Approach to Boronic Acid Catalyzed Amidation Reactions"
 - Grade: 1.2
- 10/2019 – 08/2022 **Bachelor of Science in Chemistry** *University of Freiburg*
 - bachelor thesis with I. Krossing on "Coordination Chemistry of low-valent Gallium and Indium - Synthesis and Reactivity of "naked" Gallium(I) and Indium(I) cations"
 - Grade: 1.2
- 06/2018 **Abitur** *Martin-Niemöller-Schule Wiesbaden*
 - Grade: 1.2

PRE-PROFESSIONAL PROFILE

- 11/2023 – 03/2024 **Research Internship** *Kinjo Group, Nanyang Technological University, Singapur*
 - on the synthesis and reactivity of the first two-dimensional Al_2B_3 molecule
- 11/2021 – 03/2022 **Student Assistant** *Physical Chemistry, University of Freiburg*
 - Tutoring for biology students in the basics of physical chemistry. Preparation of exercises and assessment of weekly assignments

PUBLICATIONS

- 04/2024 **On the Synthesis and Structure of 'Naked' Ga(I) and In(I) Salts and the Surprising Stability of Simple Ga(I) and In(I) Salts in the Coordinating Solvents Ether and Acetonitrile**
A. Barthélemy, H. Scherer, H. Weller, I. Krossing
Chem. Eur. J. 2024, 30, e202400897 (doi.org/10.1002/chem.202400897)
- 12/2022 **How long are Ga $\leftrightarrow$ Ga double bonds and Ga–Ga single bonds in dicationic gallium dimers?**
A. Barthélemy, H. Scherer, H. Weller, I. Krossing
Chem. Commun., 2023, 59, 1353-1356. (doi.org/10.1039/D2CC06377H)

VOLUNTARY WORK

- 08/2018 – 07/2019 **Weltwärts voluntary service** *MANTHOC, Cajamarca, Peru*
 - Teaching English to fifth and sixth grade students. Design and implementation of workshops on environmental protection and children's rights

SKILLS

Languages

- german (native), english (C1), spanish (B2)

Expertise

- organic and inorganic synthesis, Schlenk- and Glovebox-techniques; experience in handling corrosive and toxic gases