

**PERSONAL DATA**

Name	Angelika Dorothea Rosa
Date of Birth	19 <sup>th</sup> of November 1983
Place of Birth	Munich, Germany
Nationality	German
Email	<a href="mailto:angelika.rosa@esrf.fr">angelika.rosa@esrf.fr</a>

**PROFESSIONAL EXPERIENCE**

- 04 / 2018 – present      **Scientist in experimental geochemistry**, in charge of the static extreme condition program at the X-ray absorption beamlines ID24/BM23 at the ESRF.
- 04 / 2015 – 04 / 2018      **Post-doctoral research fellow in experimental geochemistry** at the X-ray absorption beamlines ID24/BM23 of the ESRF.
- 01 / 2013 – 03 / 2015      **Post-doctoral research fellow in experimental mineralogy** (Swiss National Science Foundation Grant as PI) at the “Unité de Matériaux et Transformation (UMET)”, University of Lille, France. **Title:** *In situ* 3D-high-resolution X-ray diffraction tracking of individual grains of olivine during high pressure/high temperature phase transitions

**EDUCATION**

- 12 / 2008 – 04 / 2013      **PhD in experimental mineralogy** (ETH medal awarded)  
Department of Geochemistry and Petrology, ETH Zürich, Switzerland  
**Supervisor:** Prof. C. Sanchez-Valle  
**Title:** Elasticity and preferred orientation of ultra-high-pressure hydrous phase: Implications for seismic anisotropy and deep water recycling in subduction zones
- 11 / 2008      **Diploma in experimental mineralogy** (completed with the best grade: *very good*)  
Institute of Mineralogy, University of Heidelberg, Germany  
**Supervisor:** Prof. R. Miletich-Pawliczek  
**Title:** High-pressure crystallography of the  $\text{ABSi}_4\text{O}_{10}$  gillespite structure type

**RESEARCH OUTPUT AND IMPACT**

- **40 publications** (three additional submitted) in international peer-reviewed journals, among them 14 as first-author and 16 as second or third author ([publication list](#))
- **543 citations** (google scholar), **h-index 14 / 23** ([google scholar](#))
- **10 invited seminars**, **14 invited** and **21 oral presentations** (*details see publication list*)

**RESEARCH GRANTS AND AWARDS**

1. **2021-2023: special appointed assistant professor** at Hiroshima University, Japan
2. **2021:** succeeded **step 1 of a ERC Starting grant 2021** as PI and was invited to an oral interview
3. **2013: Swiss National Science Foundation fellowship** for one-year postdoctoral fellow at the University of Lille, UMET.
4. **2015-2022:** Awarded funding for **6 PhD and trainee students** at the ESRF in collaboration with different Universities (Potsdam, Milano, Rom).

5. **2019:** Awarded funding for a **joint project at the “Réseau de technologie des hautes pressions du CNRS”** 2019 coordinated by Jean-Philippe Perrillat. **Title:** Nouvelle génération d’assemblages expérimentaux pour enclumes Paris-Edimbourg toroïdales.
6. **2009-2022: 24 beamtime proposals accepted as PI** (ESRF, SOLEIL, PETRAIII, PSI)

## ORGANIZATION OF SCHOOLS / MICROSYMPOSIA

1. **Main organizer of the 5-days school** on “extreme condition science and instrumentation” that took place at the ESRF from **21-17 of June 2019**. <https://www.esrf.eu/high-pressure-school> with 100 students and researchers from 13 countries.
2. **Main organizer for the topical bridge** “Geosciences at the ESRF” launched in 2021, that includes the organization of seminars ([link](#)), paper discussion meetings, excursions and the creation of the website: [Geobridge - Geoscience at the ESRF](#) ([link](#))
3. **Co-Chair of the Micro-symposium** “Matter at extreme conditions at SR and XFEL: complementarity of spectroscopy and diffraction” at the IUCR, Prague in (**August 2020**).

## SUPERVISION

1. In total, I supervised **11 students and post-docs since 2015**. I am presently supervising one post-doc (ongoing since August 2020). I supervised a second post-doc for one year in 2021. I co-supervised a PhD student (defended Aug. 2021) and I am co-supervising a PhD student (IsTerre, ongoing). I have also successfully supervised five master students and, a technical trainee student as well as a summer school student.
2. **Invited member of three PhD thesis juries** at the Laboratoire Magmas et Volcans, Clermont-Ferrand (**Oct. 2019**), Synchrotron Soleil (**May 2022**), University of Lille (**Nov. 2022**).

## TEACHING / OUTREACH/ DUTYS OF TRUST

- **Invited assistant professor** at the Hiroshima University **from 2021-2023** for 2 month stay, this includes lectures, seminars and joint experiments
- **Lecturer** for the Atelier cellules à enclumes de diamant **25-29 October 2021**, synchrotron SOLEIL - Réseau HP (reseauhp.org) ([link](#))
- **Lecturer** at the University of Heidelberg, Institute for geoscience, to present the profession of a researcher in geoscience, **Nov/Dec 2021** ([link](#)).
- I have been **member of the recruitment panels for 7 persons** (3 scientists, a post-doc and 3 PhD students).
- I presented my research activity to the **ESRF council** (26 members) and to **national and local authorities** visiting the ESRF.

## REVIEW ACTIVITIES FOR INTERNATIONAL JOURNALS / GRANTS

NSF grant applications, Science Advances, Scientific Reports, Physical Review Letters, Geophysical Research Letters, American Mineralogist, Geochemical Cosmochemical Acta, Minerals, Crystals, (7 /year).

## TECHNICAL SKILLS

- High pressure and high or low temperature devices: laser or resistively heated DAC, cryogenically cooled DAC, Paris-Edinburgh Press, Piston Cylinder, Multi-anvil press
- X-ray probe techniques: powder, multi-grain and single-crystal diffraction, X-ray absorption spectroscopy, X-ray fluorescence and X-ray emission spectroscopy
- Laser spectroscopic techniques: Brillouin and Raman in the DAC
- Ex-situ analysis: SEM, EMPA