

# Data Archives & Repositories in Geosciences



FUB Seminar, WS 2016/17

How to Write, Publish & Present Scientific Work

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# Data Archive vs Repository (?)

- Data archive

- individual, shared or cooperative storage facility
- can contain historical records and documents

- Repositories

- serving a group of libraries
- ownership of materials transfers to the repository
- preserves data,
- managing any access restrictions and making information about the data (metadata) traceable

# Geo Data Archives

## Where to Find Data ?

- EarthChem: Geochemical and petrological data  
<http://www.earthchem.org/petdb>
- EarthRef: Earth Science reference data and models  
<https://earthref.org/>
- GERM: Geochemical Earth Reference Model  
<https://earthref.org/GERM/>
- GEOROC: Geochemistry of Rocks of the Oceans and Continents  
<http://georoc.mpch-mainz.gwdg.de/georoc/>
- GeoReM: Reference materials of geological and environmental interest  
<http://georem.mpch-mainz.gwdg.de/>

# Data Tools .....

**Interdisciplinary Earth Data Alliance** community-based data facility: <http://www.iedadata.org/>

## Tools for synthesis and visualization

- Statistical analysis: SPSS, Stata, SAS
- Data management with SQL, MS EXCEL
- Data analysis and visualization in R, Matlab, MS EXCEL
- Data analysis and visualization in Python

# Managing your own data and feeding them into the Data Life Cycle-

