

Dr. Andreas Scharf

Ph.D. in Geology (2013)

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Diploma in Geology (2008)

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<http://www.geo.fu-berlin.de/en/geol/fachrichtungen/geologie/mitarbeiter/ascharf/index.html>

PROFILE As an enthusiastic geologist I offer main skills in interests in structural geology, tectonics, geochronology, mineralogy and petrology as well as in general/physical geology and sedimentology. Being a team player, I enjoy fieldtrips and mapping camps since my diploma studies.

WORK HISTORY

Freie Universität Berlin, Germany **Jan. 2013 to present**

I'm working as a post-doctoral researcher in the tectonics group of the Freie Universität Berlin since January 2013. My task is to focus on the structural / geodynamic evolution of the Namche Barwa Syntaxis (Himalaya). In addition, I taught several seminars, labs and fieldtrips for undergraduates and graduates.

Freie Universität Berlin, Germany **Oct. 2008 to Dec. 2012**

I worked at the Freie Universität Berlin as researcher (Ph.D. student). This work included teaching for undergraduates and graduates in the field of tectonic and general geology. During that time I participate on a workshop of *Exxon Mobil* about sequence stratigraphy in siliciclastic systems.

Universität Potsdam, Germany **Aug. 2004 to Sep. 2008**

I worked for Prof. Dr. Roland Oberhänsli, the head of the geoscience department at the Universität of Potsdam, as a teaching and research assistance.

Topics and methods included:

- Guidance mineralogy/petrology labs for undergraduates
 - Assistance in a mapping camp for undergraduates in Andalusia
 - Organizing seminars and conferences
 - Thin section preparation
 - Preparation of samples for geochemical analyses
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EDUCATION

Freie Universität Berlin, Germany **Oct. 2008 to present**

Ph.D. in tectonics (summa cum laude)

Doctoral thesis: "*Lateral extrusion and exhumation of orogenic crust during indentation by rigid Adriatic continental lithosphere – tectonic evolution of the eastern Tauern Window (Eastern Alps, Austria)*".

Supervisors: Prof. Dr. Mark Handy and Prof. Dr. Claudio Rosenberg

Topics and methods included:

- Field studies including structural and lithological mapping
- Compiling a new tectonic map of the entire Tauern Window and cross sections
- Thin section petrology
- Microprobe analyses
- Graphite-thermometry based on Raman microspectroscopy
- $^{40}\text{Ar}/^{39}\text{Ar}$ laser ablation on mica
- Sm/Nd dating of garnets
- Modelling the P-T-t-d evolution
- Interpretation of tomographic images
- Several mapping courses, lectures and field trips for undergraduates
- Supervising of bachelor, master and diploma theses, including mapping

**Diploma of
Geology
(cum laude)**

Universität Potsdam, Germany

Oct. 2001 to Sep. 2008

Diploma thesis: *Geochemistry and petrology on fluid transformed high-grade metamorphic rocks in Varberg (Sweden)*. The goal was to study the effect of migrating fluids on high-grade metamorphic rocks.

Supervisors:

Prof. Dr. Uwe Altenberger and Prof. Dr. Roland Oberhänsli

Topics and methods included:

- Field studies including mapping/detail mapping
- Drilling
- Thin section petrology
- Microprobe analyses
- Geochemical analyses
- Modelling the P-T evolution
- Fluid inclusion investigations using a Raman laser
- Computer modelling of mineral reactions with *Theriak et Domino*

SKILLS

Languages:

- German – native language
- English – fluent
- French – basic

Computer skills:

- ArcGIS
- Adobe Illustrator
- Adobe Photoshop
- Matlab
- MS Office
- Surfer

- Analytic skills:
- XRF
 - Microprobe analyses
 - Optical microscopy
 - Raman microspectroscopy
 - $^{40}\text{Ar}/^{39}\text{Ar}$ dating using laser-ablation
 - Sm/Nd dating
 - Thin section preparation and petrology of cores and cuttings
 - Creation of geological, tectonic structural maps and –cross-sections
 - Stratigraphic correlations
 - Various laboratory techniques
- Teaching skills:
- Seminar, labs, fieldtrips
 - Teaching since seven years labs for undergraduates
 - Since six years teaching in different mapping camps for undergraduates and graduates
 - Co-advising of Bachelor-, Master- and Diploma theses since five years

INTERESTS
&
ACTIVITIES

I have key interests in sports. I especial enjoy team sports.

REFERENCES

Prof. Dr. Mark R. Handy
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