

CURRICULUM VITAE

February 2017

Prof. Dr. **Mark R. Handy**
Dept. of Earth Sciences
Freie Universität Berlin
Malteser-Strasse 74-100
D-12249 Berlin
Germany

Dept. Phone: +49-(0)30-838-458659
Office Phone: +49-(0)30-838-70311
Private Phone: +49-(0)30-707-60069
Fax: +49-(0)30-838-70734
Email: mark.handy@fu-berlin.de

Contents

I	Personal
II	Qualifications
III	Employment
IV	Teaching
V	Research
VI	Administration
VII	Professional service
VIII	Memberships

Appendix

A	Supervised student work
B	Funded research projects

I. PERSONAL

Birth date: May 20, 1958
Nationality: Swiss and American
Languages: German and English fluent, French conversant; Italian limited

II. QUALIFICATIONS

1992 *Habilitation in Geology*, University of Bern, Switzerland
1982-1986 *Ph.D. in Geology, Summa cum Laude*, University of Basel, Switzerland
1980-1981 *Graduate Fellow from Amherst*, Geological Institutes, ETH-Zürich and University of Basel
1976-1980 *B.A. in Geology, Magna cum Laude*, Amherst College, U.S.A.

III. EMPLOYMENT

2000-present *Senior Professor of Geology (C4)*, Dept. of Earth Sciences, Freie Universität Berlin, Germany
1994-2000 *Professor of Geology (C3)*, Institute of Earth Sciences & Lithospheric Research (IGL), Justus-Liebig-Univ. Giessen, Germany
1991-1994 *Research Professor*, Geological and Mineralogical Institutes, Univ. Bern, Switzerland, Swiss National Science Foundation („Profil 2“ Program)
1988-1991 *Research assistant*, Geological Institute, Univ. Bern, Switzerland
1986-1988 *Post-doctoral fellow*, Department of Geology, Imperial College of Science and Technology, London, Great Britain
1985-1986 *Interim lecturer*, Geological Institute, Univ. Basel, Switzerland
1981-1985 *Graduate research and teaching assistant*, Geological Institute, University of Basel, Switzerland and Swiss National Science Foundation
1981 *Laboratory assistant*, Museum of Natural History, Basel, Switzerland
1978-1980 *Undergraduate tutor*, Geology Department, Amherst College
1979 *Field assistant*, U.S. Geological Survey, Branch of Uranium and Thorium Resources, Golden, Colorado, U.S.A. (Summer)

IV. TEACHING

A. Main courses taught (1994-present)

- Introduction to Earth Sciences (BSc)
- Structural Geology* (BSc)
- Tectonics* (BSc)
- Geology of Europe (BSc)
- Geodynamics of the Alpine-Mediterranean Chains*(MSc)
- Tectonics of Sedimentary Basins (MSc)
- Fabrics & Rheology of Geological Materials* (MSc)
- Geodynamic Modelling* (MSc)
- Seminars (Literature, Research) (BSc, MSc)
- Geologic Field Trips (BSc, MSc)
- Geologic Mapping I and II (BSc, MSc)

Note: Classes marked with * are taught solely by Prof. Handy, others are co-taught

B. Guest professorships

- **2017:** Guest Professor in the Dept. of Geophysics, *ETH-Zürich, Switzerland*: March-October 2017
- **2007-2008:** Guest Professor in Tectonics (CNRS), *Univ. de Rennes, France*: Nov. 2007-March 2008
- **2004:** Distinguished Lecturer in Geodynamics, *Vening Meinesz Research School of Geodynamics, Univ. of Utrecht, the Netherlands*: December, 2004
- **2003:** Professor of Geology in Residence, *Univ. of Vienna, Austria*: May-July, 2003
- **2001, 1997, 1995:** Lecturer, *European Graduate Summer School, Univ. of Prague*

C. Supervised student projects

- See **Appendix A** for a list of supervised work (Habilitation, Ph.D., Diploma/MSc and BSc students)

V. RESEARCH

A. Topics, Activities and Interests

Tectonics

- Plate tectonics of the Western Mediterranean
- Continental fault systems
- Transition from active- to passive-margin tectonics
- Interaction of climate erosion and tectonics
- Earthquake mechanisms
- Role of inherited structures
- Exposed crustal cross sections

- Seismic imaging, tomography, array technology

Structural Geology

- Scaling properties of shear zones and fold systems
- Hydrofracturing and fluid-advection in faults
- Syntectonic melt transport mechanisms
- Strain partitioning in the continental crust

Rheology & Microfabrics

- Rheology of polyphase materials
- Deformation mechanisms at the brittle-to-ductile transition
- Numerical modelling of lower crustal flow
- Analogue modeling of texture development in rocks and rock analogue materials

Regional Geology

- **Alps:** Paleogeography of the Tethyan realm, Paleozoic history of the Southern Alps, Mesozoic rift basins in the Southern and Eastern Alps, thrust systems in the Eastern Alps, kinematics of the Periadriatic Line, Tertiary intrusive activity, evolution of the Tauern Window, timing of Alpine deformation and metamorphism
- **Pyrenees:** Evolution of the North Pyreneen Fault System, Tertiary thrust tectonics
- **Andes:** Controls on the uplift of the Altiplano Plateau
- **Himalayas:** Rapid uplift and exhumation of the eastern Syntax (Namche Barwa)

Other

- Rock and soil mechanics

B. Funded Projects as PI (see Appendix B for detailed listing)

- *Rheology of the Lower Crust with Special Reference to the Role of Quartz* (Royal Society and SNF, 1986-1988)
- *Evolution of Alpine Continental Margins* (SNF, 1988-1994)
- *Exhumation History of the Southern Alpine Crust* (SNF, 1992-1996)
- *Processes at the Transition from Mylonitic to Cataclastic Flow in the Lithosphere* (DFG, 1995-1998)
- *Structure and Rheology of Partially Melted Rock* (DFG, 1996-1999)
- *Oligo-Miocene tectonics north of the Dolomite-indentor and its relationship to the emplacement of the Rieserferner Pluton, Eastern Alps* (DFG, 1999-2002)
- *Fault Systems in front of the Apulian Orogenic Indenter and their Role in Exhuming High Pressure Rocks in the Sesia Zone (Western Alpine Arc)* (DFG, 2000-2004)
- *Controls on lithospheric deformation, erosion and plateau formation in the Central Andes inferred from thermo-mechanical modelling* (DFG, 2002-2004)
- *Determinates of ductile strain localization in the continental lithosphere on different length- and time-scales* (DFG, 2003-2007)
- *Metamorphic structure in the Alps* (CCGM, 2002-2004)
- *E-Learning in Structural Geology and Tectonics* (FUB, 2005)
- *Dynamics of tectonic fault zones* (DFG, 2005-2006)

- *Tracing material flow around the East-Himalyan Syntaxis), Tibetan Plateau: Formation – Climate – Ecosystems* (DFG, 2008-2010)
- *Feedbacks between faulting, lithospheric structure and topography in Alpine-type orogens, Visiting Professorship for Prof. S.M. Schmid (Basel)* (AvHF, 2008-2010)
- *Geological transect across the Albanian Dinarides, Visiting Professorship in Geology for Professor Kujim Onuzi, Univ. Tirana, Albania* (DAAD, Oct.-Dec. 2010)
- *Changing patterns of shortening, and lateral extension at the end of the axial zone in a mountain belt - the case of the Tauern Window at the eastern end of the Alps* (DFG, 2009-2012)
- *Slab tearing or slab retreat as triggers of extension at the Dinaric-Hellenic transition* (DFG, 2017-2020; co-PI with J. Giese, J. Pleuger)
- *Mountain Building Processes in 4-Dimensions (4D-MB)*, Coordination of SPP 2017. (DFG, 2017-2020)
- *Linking surface kinematics to deep structure of the Adriatic indenter near a potential subduction-polarity switch – the Giudicarie Belt, Southern Alps* (DFG, 2017-2020 with Ch. Haberland, GFZ-Potsdam and E. Le Breton, FU-Berlin)
- *Understanding subduction by linking surface exposures of subducted and exhumed crust to geophysical images of slabs* (DFG, 2017-2020; co-PI with Pleuger, John, Tilmann, Yuan, Kaus, Handy, Mechie)

Total External Funding: € 2.014.865- (see Appendix B)

VI. ADMINISTRATION

- 1995-1996 Chairman, Institut für Geowissenschaften, Univ. Giessen
- 1997-1999 Vice-Dean, Faculty of Earth Sciences, Univ. Giessen
- 2001-2003 Dean of Studies, Dept. of Earth Sciences, Freie Univ. Berlin
- 2002-2003 Vice-chair, Appointment Committee, Profs. in Petrology and Geochemistry
- 2003-2004 Elected member, Universitätssenat, Freie Univ. Berlin
- 2005-2006 Appointed member, Exzellenzrat, Freie Univ. Berlin
- 2005-2006 Co-speaker and coordinator, Berlin-Potsdam Excellence Initiative
- 2009-2010 Chairman, Appointment Committee for Prof. in Crystallography
- 2010-2011 Co-speaker and coordinator, Potsdam-Berlin Excellence Initiative
- 2012-2017 Chairman, Institut für Geowissenschaften, Freie Univ. Berlin

VII. PROFESSIONAL SERVICE

Professional organization

- Vice-president, Executive board (2004-2010) and member of Advisory board (1999-2004, 2011-present) of the Geologische Vereinigung (Geological Society of Germany)

Referee

- Referee/reviewer for German Science Foundation (DFG), Alexander von Humboldt-

Foundation (AvH), Swiss National Science Foundation (SNF), Natural & Environmental Research Council (NERC, United Kingdom), US National Science Foundation (NSF, U.S.A.), Research Committee of the ETH-Zürich (Switzerland), UNESCO, Austrian Science Council (FWF)

- External referee, faculty appointment committees at the Univ. of Bonn (2000), Univ. of Basel (2001), Univ. of Mainz (2002), Univ. of Greifswald (2003), Univ. of Graz, Austria (2003), Univ. of British Columbia, Canada (2004), Univ. of Dalhousie, Halifax, Canada (2004), Univ. Innsbruck (2006), Univ. Potsdam (2007), Univ. Göttingen (2008)
- External referee/reviewer on PhD & Habilitation committees: Univ. of Lausanne (1995, 1999), ETH-Zürich (1997), Univ. of Basel (1996), Univ. Utrecht (2000), Univ. de Paris VI (2005), Univ. of Bonn (2008), Univ. de Rennes (2008)

Editorial activity

- Earth & Planetary Science Letters, Geological Society of London, Geology, GSA-Bulletin, Geophysical Journal International, International Journal of Earth Science (editorial board 2016-2018), Journal of Geodynamics, Journal of Geophysical Research, Journal of Petrology, Journal of Structural Geology, Nature, Swiss Journal of Geosciences, Tectonics, Tectonophysics (editorial board 1998-2001), Terra, Quaternary International, Princeton University Press, Springer Verlag

Meetings

- Co-convener of Plenary and Topical Sessions on Alpine-Mediterranean Geodynamics, GSA-GV Meeting “Fragile Earth” (Sept., 2011, with Clark Burchfiel, MIT)
- Co-organizer, 9th Alpine Workshop, Cogne, Italy (Sept. 2009, with Michel Balleuvre, Univ. Rennes)
- Chairman, Dahlem Conference on “The Dynamics of Fault Zones” (Berlin, 2005)
- Member, Scientific Advisory Boards for International Conferences on “Deformation Mechanisms, Rheology, Tectonics” (Rennes 2003, Zürich 2005, Milan 2007)
- Co-convener, International Conference on “Deformation Mechanisms, Rheology, Tectonics” (Neustadt, 1999 with Georg Dresen, GFZ-Potsdam)

Public service

- Lectures and field trips on Earth Science to the general public (Berlin public schools; National Gallery of Art, Berlin; German Academic Exchange Program, DAAD; Laudenschachen Geogespäche, Engadine, Switzerland)
- Interviews for Deutschland Radio Kultur, Kulturradio Berlin-Brandenburg (RBB), etc. (see listings under Publications)
- Educational Directorate of the John-F.-Kennedy Schule, Berlin (2008-2010, elected representative, together with members of the Berlin Senate and US Embassy)

VIII. MEMBERSHIP IN SOCIETIES

- American Geophysical Union (AGU)
- European Geosciences Union (EGU)
- Geological Society, London (GSL)
- Geological Society of Germany (DGGV)
- German Mineralogical Society (DMG)
- Swiss Geological Society (SGG)

Appendix A: Academic work supervised and refereed (as main supervisor unless otherwise stated)

A1. Habilitations

ROSENBERG, C.L. (2003): Deformation of partially melted rocks: Natural investigations and analogue experiments. Habilitation, Freie Universität Berlin, cumulative papers

DOBMEIER, C. (2006): Late to post-orogenic plutonism and its significance for the reconstruction of the evolution of a granulite terrain. Habilitation, Freie Universität Berlin, cumulative papers

A2. Ph.D. theses

HERWEGH, M. (1996): Microfabric Evolution in Monomineralic Mylonite: An Experimental Approach Using See-Through Analogue Materials. Ph.D. thesis, Univ. of Bern, 235 pp.

ZURBRIGGEN, R. (1996): Crustal genesis and uplift history of the Strona-Ceneri Zone (Southern Alps). Ph.D. thesis, Univ. of Bern, 235 pp.

BAUER, P. (1999): Experimentelle Deformation von polykristallinem Norcamphor in Anwesenheit von Wasser und bei kontrollierten Umgebungsdruck, Temperatur und Schwerverformungsrate. Ph.D. thesis, Univ. of Giessen

PALM, S. (2000): Verformungsstrukturen und gesamtgesteinschemische Alteration nahe dem spröde-viskosem Übergang an der Pogallo Störungszone, Norditalien. Ph.D. thesis, Univ. Giessen, 129 pp.

REINDERS, CH. (2002): Numerische Modellierung von regionalen Deformationsprozessen im Pamir-Hindu-Kush, Zentralasien. Freie Universität Berlin 132 pp.

WAGNER, R. (2004): Tertiary Tectonics and Magmatism along the TRANSALP Transect between the Tauern Window and the Periadriatic Line (Eastern Alps). Ph.D. thesis, Freie Universität Berlin, 187 pp.

KONRAD-SCHMOLKE, M. (2006): Large scale structural and petrological signature of subduction and exhumation in the Sesia Zone (Western Alps), Ph.D. thesis, Freie Universität Berlin, 212 pp.

FUSSEIS, F. (2006): Strain localization and shear zone formation at the brittle-viscous transition, Cap de Creus, Spain. Ph.D. thesis, Freie Universität Berlin, 200 pp.

BABIST, J. (2007): Structural evidence for subduction and multistage exhumation of a former continental margin (Sesia Zone, Western Alps), Ph.D. thesis, Freie Universität Berlin.

SCHARF, A. (2013): Lateral extrusion and exhumation of orogenic crust during indentation by rigid Adriatic continental lithosphere – tectonic evolution of the eastern Tauern Window (Eastern Alps, Austria). Ph.D. thesis, Freie Universität Berlin, 180 pp.

FAVARO, S. (2016): Response of orogenic crust to indentation by Adriatic continental lithosphere – Tauern Window, Eastern Alps (Austria).

A3. External Referee of Ph.D. theses and Habilitations

OPPIZI, P. (1995): Tettonica e metamorfismo nella parte centrale del settore W dello Zoccolo pre-Varisico delle alpi meridionale (Ticino, Svizzera), Ph.D. thesis, Univ. of Lausanne (Supervisors: Prof. Dr. J.C. Hunziker, Prof. Dr. A. Steck)

KOPF, A. (1995): Feststoffbilanzierung akkretierten und subduzierten Sediments und computergestützte Rückwärtsmodellierung deformierter Krustenquerschnitte am Kontinentalrand von Südchile, Ph.D. thesis, Univ. of Giessen (Supervisor: Prof. Dr. J. Behrmann)

ROSENBERG, C. (1996): Magmatic and solid state flow during the syntectonic emplacement of the western Bergell pluton: Field studies and microstructural analysis. Ph.D. thesis, Univ. of Basel (Supervisor: Prof. Dr. S.M. Schmid)

HERMANN, J. (1997): The Braccio gabbro (Malenco, Alps): Permian intrusion at the crust to mantle interface and Jurassic exhumation during rifting. Ph.D. thesis, ETH-Zürich (Supervisor: Prof. Dr. V. Trommsdorff)

DESEZ, P. (1999): Tectonic and Metamorphic Evolution of the Central Himalayan Domain in Southeast Zaskar (Kashmir, India). Ph.D. thesis, Univ. Lausanne (Supervisor: Prof. Dr. J.C. Hunziker, Prof. Dr. A. Steck)

BOS, B. (2000): Faults, Fluids and Friction: Effect of pressure solution and phyllosilicates on fault slip behaviour, with implications for crustal rheology, Ph.D. thesis, 108 pp. and figures, Utrecht Univ. (Supervisor: Prof. Dr. C. Spiers)

REINDERS, C. (2001): Numerische Modellierung von regionalen Deformationsprozessen im Pamir-Hindu Kush, Zentralasien. Ph.D. thesis, Freie Universität Berlin (Supervisor: Prof. Dr. R. Kind, Freie Universität Berlin and GFZ-Potsdam)

ROSENAU, M. (2004): Tectonics of the Southern Andean Intra-arc Zone (38°-42°S). Ph.D. thesis, Freie Universität Berlin, 158 pp. (Supervisor: Prof. Dr. O. Oncken, Freie Universität Berlin and GFZ-Potsdam)

FÜGENSCHUH, B. (2004): Fission track age constraints on the thermal and temporal evolution of the Alps. Habilitation, Universität Basel

MEHL, C. (2005): La transition ductile-cassant: Evolution structurale et rôle des fluides – Exemples des Cyclades, Mer Egee. Ph.D. thesis, Univ. de Paris VI, 295 pp. (Supervisor: Laurent Jolivet)

HOTH, S. (2005): Deformation, erosion and natural resources in continental collision zones – Insight from scaled sandbox simulations. Ph.D. thesis, Freie Universität Berlin, 139 pp. (Supervisor: Prof. Dr. O. Oncken)

SIPPEL, J. (2008): The Paleostress History of the Central European Basin System. Ph.D. thesis, Freie Universität Berlin, 149 pp. (Supervisor: Prof. Dr. O. Oncken)

NAGEL, T. (2008): **xxx**, Habilitationsschrift, Univ. Bonn, cumulative papers.

GUEYDAN, F. (2009): Rhéologie de la lithosphère et mécanique des systèmes tectoniques. Habilitation à diriger des recherches, Univ. de Rennes 1, UFR Sciences et Propriétés de la Matière, 108 pp. and Appendix (375 pp.)

VON HAGKE, Ch. (2012): Coupling between Climate and Tectonics? Low-temperature thermochronology and structural geology applied to the pro-wedge of the European Alps. Freie Universität Berlin, 171 pp. and Appendix (Supervisor: Prof. Dr. O. Oncken)

A4. MSc/Diploma theses

REGLI, Ch. (1992): Strukturgeologische Untersuchungen am Westrand der Zone von Samedan (Unterostalpine Decken, Julierpass). Diploma map, report and thesis, Univ. of Bern, 99 pp.

HERWEGH, M. (1992): Kinematik der Julierüberschiebung am Südwestrand der Zone von Samedan (Unterostalpin, Julierpass). Diploma map, report and thesis, Univ. Bern, 133 pp.

TIETZ, R. (1993): Strukturgeologische Untersuchungen an der Grenze Unterostalpin-Penninikum im Raume Piz Lunghin und Piz dal Sasc (Graubünden). Diploma map, report and thesis, Univ. Bern, 129 pp.

MATTENBERGER, C. (1994): Strukturelle Untersuchungen im unterostalpin-penninischen Grenzgebiet (Oberengadin, Graubünden). Diploma map, report and thesis, Univ. of Bern, 175 pp.

KLAHR, U. (1994): Strukturgeologische Untersuchungen des penninisch-unterostalpinen Grenzgebietes im Raume Grevasalvas (Graubünden). Diploma map, report and thesis, Univ. of Bern, 115 pp.

JANOTT, B. (1996): Kinematik und Metamorphose der Val Colla Mylonitzone im Südalpinen Grundgebirge (Tessin, Schweiz). Diploma map, report and thesis, Univ. of Giessen, 102 pp.

PERSAUD, M. (1998): Microstructures in Naturally Deformed Feldspars: Examples from the Ivrea and Strona-Ceneri Zones, Southern Alps, Italy, Diploma thesis, Univ. Giessen, 154 pp.

WISSING, S. (1997): Scherfestigkeit von Zweiphasen-Mineralssystemen unter Kombination von viskosem und sprödem Verhalten: Ein Rechenmodell. Diploma thesis, Univ. of Giessen, 47 pp. and Appendix.

SCHLAEFKE, A. (1998): Programme zur Berechnung und Darstellung von Deformationsregime Karten für monomineralische Systeme - Abschätzung der Scherfestigkeit einer Scherzone in Abhängigkeit vom aktiven Deformationsmechanismus. Diploma thesis, Univ. of Giessen, 91 pp.

ALBERTZ, M. (1999): Structures in the Western Part and Post-Intrusive Tilting of the Rieserferner Pluton, Eastern Alps (South-Tirol, Italy). Diploma map, report and thesis, Univ. Giessen

MULCH, A. (1999): Age of Synkinematic Mafic Dikes in the Middle and Lower Crust of the Ivrea-Verbano and Strona-Ceneri Zones (Switzerland and Italy). Diploma map, report and thesis, Univ. Giessen, 115 pp.

ROSENAU, M. (1999): Structure and Geochemistry of Early Permian Intrusive Rocks at the Mylonitic Contact of the Ivrea-Verbano and Strona-Ceneri Zones, Southern Alps (CH/I). Diploma map, report and thesis, Univ. Giessen, 135 pp.

MÖBUS, C. (2000): Strukturgeologische und petrologische Untersuchungen im Dachbereich des Rieserferner-Plutons (Südtirol, Italien), Diploma map, report and thesis, Univ. Giessen, 135 pp.

BABIST, J. (2001): Structure and Kinematics of Part of the Insubric Line and adjacent Sesia Zone (Valle Sermenza, northern Italy). Diploma map, report and thesis, Univ. Giessen, 205 pp. and Appendix

- SPERBER, B. (2003): Ein Gebiet im östlichen Val Chiusella Tal der südlichen zentralen Sesia Zone (italienische Alpen): Beiträge zum Thema Exhumierung von Krustengestein. Diploma map, report and thesis, Freie Universität Berlin, 167 pp. and Appendix
- GIESE, J. (2004): Geologie der südwestlichen Grenze des Tauernfensters (Mühlwalder Kamm, Italien) und die Analyse von Quarztexturen und Mikrogefügen in L-Tektoniten. Diploma map, report and thesis, Freie Universität Berlin, 177 pp. and Appendix
- SÄMANN, S. (2004): Altersbestimmung syn- und post-kinematischer Minerale in mehrphasig überprägten Austroalpinen Sockel (Sesia Zone, Westalpen). Diploma thesis, Freie Universität Berlin, 53 pp. and Appendix.
- SCHRANK, C. (2004): Quantification of strain localization in ductile shear zones. Diploma thesis, Freie Universität Berlin, 62 pp.
- HÄUSLER, R. (2005): Geologie der Sesia Zone im oberen Val Chiusella (Piemont, Nordwest Italien): Rb-Sr Alter von andestischen Gängen und Implikationen für das Alter der Deformationen im angrenzendem Gestein (Piemont, Norditalien). Diploma thesis, report Freie Universität Berlin, xx pp.
- JANITSCHKE, M. (2006): Mikrostrukturelle Untersuchungen und Quarzgefüge von Myloniten aus einer duktilen Scherzone im oberen Val d'Egua (Sesia-Zone), Westalpen, Italien, Diploma thesis, Freie Universität Berlin, xx pp., CD-ROM
- CHRISTMANN, R. (2006): Displacement and strain patterns in brittle-ductile shear zones, Cap de Creus, Spain. Diploma map, report and thesis, Freie Universität Berlin, 61 pp. and Appendix
- HAUTEN, S. (2008): The role of feldspar deformation in the localization of strain in a granitoid (Aar-Massif, Grimsel area, Switzerland), Diploma map, report and thesis, Freie Universität Berlin, 50 pp. and Appendix, CD-ROM
- ZEITSCHEL, D. (2011): Estimates of peak metamorphic temperature in Bündner Schiefer of the Eastern Tauern Window (Lungnau, Austria). M.Sc. thesis, Freie Universität Berlin, 42 pp. and Appendix, CD-ROM
- RUPP, D. (2011): Complete textural analysis (Achsenverteilungsanalyse) of an unusual quartz-rich mylonite from the lower continental crust (Ivrea Zone). Diploma thesis, Freie Universität Berlin
- GIPPER, P. (2012): Crustal imbrication and nappe folding in the southeastern Tauern Window (Corinthia, Austria). M.Sc. map and thesis, Freie Universität Berlin, 48 pp., Appendix and Maps
- HAWEMANN, F. (2012): Polyphase folding of a duplex containing imbricated continental and Tethyan oceanic units (Corinthia, Austria). M.Sc. map and thesis, Freie Universität Berlin
- DEUTSCH, C. (2014): 2-D Gravity Modelling and Evaluation of the lithospheric structure of the Alpine Collision Zone along the TRANSALP Profile. M.Sc. thesis, Freie Universität Berlin
- CIONOIU, S. (2015): Comparison of fault-parallel flow and fault-bend folding algorithms. (77 pp.) M.Sc. thesis, Freie Universität Berlin

SCHMIDT, K. (2015): Microstructural and thermobarometric investigations of high-pressure mineral assemblages in metapelites of the Moderecke Nappe Complex (Tauern Window, Austria). (85 pp.) M.Sc. thesis, Freie Universität Berlin

ZERTANI, S. (2015): Apatite fission track thermochronology at the western end of the Skutari-Pec-Normal-Fault (northern Albania). (43 pp. plus References and Appendix) M.Sc. thesis, Freie Universität Berlin

GROSS, P. (2015): The retrogression of metamorphic sole rocks (Mirdita Unit, Northern Albania). (74 pp. incl. Appendix) M.Sc. thesis, Freie Universität Berlin

GENTZMANN, R. (2016): Erzeugung eines Analogmodells zur Simulation der hydraulischen Risserzeugung in petrothermalen Reservoiren zur Validierung von numerischen Modellen. (99 pp.) M.Sc. thesis, Freie Universität Berlin

GRUND, M. U. (2017): Apatite fission track thermochronology across the Shkoder-Peja Normal Fault in northeastern Albania and Kosovo (73 pp. incl. Appendix). M.Sc. thesis and mapping project, Freie Universität Berlin

A5. MSc/Diploma mapping projects

KLAMA, K. (2000): Geologie und Tektonik des Unterdevons im Bereich Ketterbach, Michelbach und Holzhausen (Aartal, Taunus). Diploma map and report, Univ. of Giessen

KRETSCHMER, A. (2000): Tektonik in den Sedimenten und Vulkaniten des Mitteldevons im Bereich Hahnstätten, Zollhaus und Burgschwalbach (Aartal, Taunus). Diploma map and report, Univ. of Giessen, xx pp.

MARTINY, A. (2000): Kartierung der Geologie im Bereich Mensfelden, Oberneisen und Niederneisen (Aartal, Taunus). Diploma map and report, Univ. of Giessen, 154 pp.

KRETSCHMER, A. (2002): Permeabilitätsentwicklung eines teilgeschmolzenen Gesteinsanaloges während einer fortschreitender Deformation (simple shear), Diploma thesis, Univ. of Giessen, 108 pp. and Appendix

SÄMANN, S. (2003): Diplomkartierung in den Corbières orientales (Aude, Frankreich). Diploma map and report, Freie Universität Berlin, 64 pp. and Appendix

RAIZTSCH, M. (2004): Diplomkartierung in den Corbières Orientales (Aude, Frankreich). Diploma map and report, Freie Universität Berlin, 50 pp. and Appendix

HAUCK, L. (2004): Bericht zur Diplomkartierung in den Corbières Orientales“ (Aude, Frankreich). Diploma map and report, Freie Universität Berlin, 65 pp. and Appendix

HESE, F. (2004): Bericht zur Diplomkartierung in den Corbières-Oriental (Aude, Frankreich). Diploma map and report, Freie Universität Berlin, 48 pp. and Appendix

SCHRANK, C. (2004): Diplomkartierung im Corbières-Massiv (Östliche Pyrenäen, Süd-Frankreich), Diploma map and report, Freie Universität Berlin, 62 pp. and Appendix

LICHTENHELD, T. (2004): Geologische Kartierung zwischen Neves-Stausee und Weissenbachtal (Südtirol, Italien). Diploma map and report, Freie Universität Berlin, 75 pp.

SCHINDELWEG, I. (2005): Geologische Kartierung des östlichen Mühlwalder Kamms (Südtirol, Italien), Diploma map and report, Freie Universität Berlin, 63 pp.

LÜDTKE, S. (2005): Erläuterungen zur geologischen Karte 1:10 000 des oberen Val d'Ègua

(Piemont, Norditalien). Diploma map and report, Freie Universität Berlin, 42 pp.

BIERSACK, S. (2005): Diplomkartierung im „Fenster von Feuilla“, Corbières Orientales (Département Aude, Frankreich). Diploma map and report, Freie Universität Berlin, 53 pp. and Appendix

JANITSCHKE, M. (2005): Erläuterungen zur geologischen Karte 1:10 000 des oberen Val d'Egua (Westalpen), Diploma map and report, Freie Universität Berlin, xx pp.

LOORMIS, M. (2010): Kartierung des Kontakts Ostalpin-Penninikum am Ostende des Tauernfensters. Diploma map and report, Freie Universität Berlin, 43 pp. and Appendix

NIKOLOPOLOUS, K. (2011): Kartierung des Unterostalpins/Radstättertauern im Bereich des Obertauerns (Österreich). Diploma map and report, Freie Universität Berlin, 35 pp. and Appendix

RUPP, D. (2011): Structural geology of the base of the Schladming Nappe (Obertauern, Austria). Diploma map and report, Freie Universität Berlin

BOCK, S. (2013): Strukturgeologische Aufnahme eines tektonischen Mélanges (Matreier Zone) im nördöstlichen Tauernfenster entlang des Ostalpinen-Penninischen Kontakts (Obertauern, Naturpark Riedingtal, Österreich). Diploma map and report, Freie Universität Berlin

SCHMIDT, K. (2013): Geologische Kartierung des Kontakts der Kurudere-Nebiler Einheit mit der Ören Einheit am südlichen Rand des Menderes Massivs, Kizilagac, Südwest-Türkei. Maps, sections and explanatory notes (44 pp.), M.Sc. mapping project, Freie Universität Berlin

DEUTSCH, C. (2014): Geologische Kartierung des Tarabosh Höhenzugs bei Shkodra, Nordwest-Albanien, mit Profilen und begleitenden Notizen (40 pp.), M.Sc. mapping project, Freie Universität Berlin

ESVEEV, S. (2014): Geologische Kartierung des M. Shitit, Nordwest-Albanien, mit Profilen und begleitenden Notizen (30 pp.), M.Sc. mapping project, Freie Universität Berlin

GROSS, P. (2014): Geologische Kartierung im Bereich des unteren Vau-Deja Stausees, Nordwest Albanien, mit Profilen und begleitenden Notizen (20 pp.), M.Sc. mapping project, Freie Universität Berlin

CIONOIU, S. (2014): Mapping Report – M.Sc. Mapping, Shkoder Region, Albania. (23 pp. plus References and Appendix), M.Sc. mapping project, Freie Universität Berlin

WANNEK, D. (201x): mit Profilen und begleitenden Notizen (20 pp.), M.Sc. mapping project, Freie Universität Berlin

LIEBRECHT, T. (2016): Variszisches Grundgebirge und permotriassisches Deckgebirge am Ostrand der Rheinischen Masse im Raum Battenberg/Eder, NW-Hessen. (52 pp. plus References and Appendix), M.Sc. mapping project, Freie Universität Berlin

A6. BSc projects

OHNEMÜLLER, F. (2008): Geologische Profil an tektonischen Störungen in den östlichen Alpen. B.Sc. Arbeit, Freie Universität Berlin, xx pp., mit Querprofil und Anhang

MOSCH, Ch. (2008): Geologische Profile an tektonischen Störungen in den östlichen Alpen. B.Sc. Arbeit, Freie Universität Berlin, 13 pp., mit Querprofil und Anhang

- GEORGI, J. (2008): Kinematik von vernetzten Scherzonen im Dach des Reizheimer Gneisdoms (Erzgebirge). B.Sc. Arbeit, Freie Universität Berlin, 33 pp. mit Anhang
- TÜNGERTHAL, A. (2009): Strukturmodell von der Basis der Unterostalpinen Decken am Nordostrand des Tauernfensters (Ostalpen). B.Sc. Arbeit, Freie Universität Berlin, 23 pp., mit Querprofil und Anhang
- GIPPER, P. (2010): Dreidimensionale Struktur des Sonnenblickdoms im oberen Mölltal, südöstliches Tauernfenster (Ostalpen, Österreich). B.Sc. Arbeit, Freie Universität Berlin, 41 pp., mit Querprofil und Anhang
- MÜLLER, D. (2010): Lokalisierte Scherung in einem subduzierten Stück kontinentaler Lithosphäre (Sesia Zone, NW-Italien). B.Sc. Arbeit, Freie Universität Berlin, 34 pp. mit Anhang
- SCHWERIN, J. (2010): Fossile Erdbeben an der Basis einer alpinen Überschiebung (Silvretta-Decke, Ostalpin im Engadiner Fenster). B.Sc. Arbeit, Freie Universität Berlin, 34 pp. mit Anhang
- WIECHERT, A. (2011): Strukturprofil im östlichen Tauernfenster durch den Venediger-Deckenkomplex und dessen Nordrand entlang des Großarlbaches. B.Sc. Arbeit, Freie Universität Berlin, 32 pp., mit Querprofil und Anhang
- EBERLEIN, C. (2011): Strukturprofil im östlichen Tauernfenster durch den Venediger-Deckenkomplex und dessen Nordrand entlang der Gasteiner Ache bei Bad Hofgastein. B.Sc. Arbeit, Freie Universität Berlin, 25 pp., mit Querprofil und Anhang
- BOCKERMANN, C. (2011): Strukturprofil durch den südöstlichen Rand des Tauernfensters und der Sonnblickgruppe. B.Sc. Arbeit, 26 pp., mit Querprofil und Anhang
- NORDHAUß, H. (2011): Strukturprofil im östlichen Tauernfenster durch das Venediger Deckenkomplex und dessen Nordrand bei Muhrursprung-Stickleralm (Ostalpen, Österreich). B.Sc. Arbeit, Freie Universität Berlin, 28 pp., mit Querprofil und Anhang
- HASCH, M. (2011): Analysis of the flow and sedimentation of the Tavolato Formation – Ciampino-Lazio area of the Colli Albani super volcano. B.Sc. thesis, Freie Universität Berlin, 28 pp., with Appendix and cross section
- SCHÜBLER, J. (2011): Mikrostrukturelle Analyse des Katschberg-Scherzonensystems (östliches Tauernfenster, Ostalpen). B.Sc. thesis, Freie Universität Berlin, xx pp. mit Anhang
- BEHLING, L. (2012): Mikrostrukturelle Beschreibung und thermische Modellierung von Pseudotachyliten an der Basis der Silvretta-Decke (Engadin, Schweiz und Tirol, Österreich). B.Sc. thesis, Freie Universität Berlin, 29 pp. und Anhang
- CIONOIU, S. (2012): Tektonische Analyse des externen Überschiebungsgürtels der Dinariden Nordalbaniens im Bereich der Skutari-Pec Linie, Profilschnitt Skodra-Bairam Curi. B.Sc. thesis, Freie Universität Berlin, 28 pp. und Anhang
- GROß, P. (2012): Tektonische Analyse des externen Überschiebungsgürtels der Dinariden Nordalbaniens, Profilschnitt Gyrikes-See – Bukmira. B.Sc. thesis, Freie Universität Berlin, 25 pp. und Anhang
- ZERTANI, S. (2013): Tectonic Analysis of the External Fold-and-Thrust Belt of the Dinarides in Montenegro. B.Sc. thesis, Freie Universität Berlin, 17 pp. und Anhang
- DOUANIA DZONGOUNG, A. (2015): Geologic Cross-Section across the Dinaric Orogen

from Fushe Arrez to Peshkopie (Northern Albania), B.Sc. thesis, Freie Universität Berlin, 32 pp. und Anhang

IBLEIB, T. (2015): Geologische Profilkonstruktion durch das Dinariden-Helleniden-orogen, von Durrresi (Lalzi Bucht) bis zum Burelli Becken. B.Sc. thesis, Freie Universität Berlin, 30 pp. und Anhang

BERGMANN, F. (2015): Geologische Profilkonstruktion durch das Dinariden-Helleniden-Orogen Profilschnitt: Burelli-Peshkopia. B.Sc. thesis, Freie Universität Berlin, 26 pp. und Anhang

MERDAN, E. (2015): Geologisches Profil über die Skutari-Pec Störung, Profilschnitt von Pecaj nach Lumebardhe. B.Sc. thesis, Freie Universität Berlin, 27 pp. und Anhang

KAATZ, L. (2015): Geologisch orogen-paralleles Profil im Übergangsbereich zwischen Dinariden und Helleniden durch das Cukali-Halbfenster, Nordalbanien, Profilschnitt Reci-Puka, B.Sc. thesis, Freie Universität Berlin, 38 pp. und Anhang

SCHOREISZ, A. (2016): Structural analysis of two cross sections through the boundary of the Byala Reka Dome (Rhodopes, Bulgaria). B.Sc. thesis, Freie Universität Berlin, 33 pp. und Anhang

MEHNERT, P. (2017): Geologisches Profil durch das dinarisch-hellenische Orogen – von Martinovice (Südmontenegro) nach Kryezi (Nordalbanien). (31 pp. und Anhang) BSc thesis, Freie Universität Berlin

SIMON, D. (2017): Känozoische sedimentologische Entwicklung und Terrassenbildung im Tropoja-Becken, NE-Albanien (51 pp. und Anhang) BSc thesis and mapping, Freie Universität Berlin

ADAM, D. (2017): A Structural Analysis of the Mt. Radeshes Fault Scarp near Tropoja, Northern Albania (21 pp. und Anhang), BSc thesis and mapping, Freie Universität Berlin.

HEYM, E. (2017): Untersuchung der Anwendbarkeit der Fry-Methode auf Granat- und Chloritoid-Porphyroblasten in Metasedimenten der Modereck-Decke, (29 pp. und Anhang), BSc thesis, Freie Universität Berlin.

Appendix B: Projects only as 1st Principal Investigator (PI) (additional list of projects as co-PI available on request)

1. Rheology of the Lower Crust with Special Reference to the Role of Quartz

- Source: Royal Society European Program, Swiss National Science Foundation
- Co-PIs: none
- Time: 1986-1988
- Pers. funds: € 110.115- (includes own salary)
- Other funds: € 5.000-

2. Evolution of Alpine Continental Margins

- Source: Swiss National Science Foundation (SNF) , Profil 2 Program
- Co-PIs: none
- Employees: Marco Herwegh, Urs Klahr, Christoph Mattenberger, Christian Regli, Reto Tietz (Diploma students)
- Time: 1988-1994
- Pers. funds: € 222.293- (includes own salary)
- Other funds: € 13.000-
-

3. Exhumation History of the Southern Alpine Crust

- Source: Swiss National Science Foundation (SNF)
- Co-PIs: none
- Employees: Marco Herwegh, Roger Zurbriggen (PhDs)
- Time: 1992-1996
- Pers. funds: € 390.996- (partly includes own salary)
- Other funds: € 24.300-

4. Processes at the Transition from Mylonitic to Cataclastic Flow in the Lithosphere

- Source: German Science Foundation (DFG)
- Co-PIs: none
- Employee: Dr. Jürgen Streit (Post-Doc), Susanne Palm, Peter Bauer (PhDs), Andreas Mulch, Matthias Rosenau (Diploma-Assistants)
- Time: 1995-1998
- Pers. funds: € 127.000-
- Other funds: € 66.915-

5. Structure and Rheology of Partially Melted Rock

- Source: German Science Foundation (DFG), "Orogenic Processes" (SPP-544)
- Co-PIs: none
- Employees: Dr. Claudio Rosenberg (Post-Doc) , student assistants
- Time: 1996-1999
- Pers. funds: € 103.950-
- Other funds: € 33.000-

6. Oligo-Miocene tectonics north of the Dolomite-indentor and its relationship to the emplacement of the Rieserferner Pluton (Eastern Alps)

- Source: German Science Foundation (DFG), SPP TRANSALP “Geophysical and Geological Transect of the Eastern Alps”
- Co-PIs: Claudio Rosenberg
- Employee: Ralph Wagner (PhD)
- Time: 1999-2002
- Pers. funds: € 60.585-
- Other funds: € 23.519-

7. *Fault Systems in front of the Apulian Orogenic Indenter and their Role in Exhuming High Pressure Rocks in the Sesia Zone (Western Alpine Arc)*

- Source: German Science Foundation (DFG)
- Co-PIs: Claudio Rosenberg, Konrad Hammerschmid, Roland Oberhänsli
- Employees: Jochen Babist, Matthias Konrad (PhDs)
- Time: 2000-2004
- Pers. funds: € 110.257-
- Other funds: € 30.121-

8. *Controls on lithospheric deformation, erosion and plateau formation in the Central Andes inferred from thermomechanical modelling*

- Source: German Science Foundation (DFG), Collaborative Research Center “Deformation processes in the Andes” (SFB 267)
- Co-PIs: Stefan Sobolev (GFZ)
- Employees: Dr. Sergei Medvedev (Post-Doc)
- Time: 2002-2005
- Pers. funds: € 193.191-
- Other funds: € 20.000-

9. *Determinates of ductile strain localization in the continental lithosphere on different length- and time-scales*

- Source: German Science Foundation (DFG)
- Co-PIs: none
- Employees: Florian Füsseis (PhD), Dr. Sergei Medvedev (Research Associate), student assistants
- Time: 2003-2006
- Pers. funds: € 35.400-
- Other funds: € 46.800-

10. *Age of metamorphic structure in the Alps*

- Source: UNESCO (CCGM, Commission de la Carte Géologique du Monde)
- Employees: none
- Time: 2002-2004
- Other funds: travel costs covered

11. *E-Learning in Structural Geology and Tectonics*

- Source: Freie Universität Berlin (FUB)
- Employees: Martin Sojka, Cornelia Kitzig (student assistants)
- Time: 2004-2005
- Pers funds: € 2.024-

12. *Dahlem Workshop “The Dynamics of Fault Zones”*

- Source: German Science Foundation (DFG)
- Employees: typists, couriers
- Time: 2005-2006
- Pers. funds: € 7.300-
- Other funds: € 45.950- (travel funds for participants)

13. *Tracing material flow around the East-Himalayan Syntaxis (Namche Barwa)*

- Source: German Science Foundation (DFG) , “Tibetan Plateau: Formation – Climate – Ecosystems” TIP (SPP-1372)
- Employees: Paola Crupi (PhD) , student assistants
- Time: 2008-2010
- Pers. funds: € 52.000-
- Other funds: € 62.950-

14. *Feedbacks between faulting, lithospheric structure and topography in Alpine-type orogens, Visiting Professorship for Prof. S.M. Schmid (Basel) (AvHF, 2008-2010)*

- Source: Alexander von Humboldt Foundation (AvHF)
- Employees: *Visiting Prof. S.M. Schmid (Basel), AvH Research Prize*
- Time: 2008-2010
- Pers. funds: € 60.000-
- Other funds: € 5.000-

15. *Geological transect across the Albanian Dinarides*

- Source: German Academic Exchange Service (DAAD)
- Employees: *Visiting Professor K. Onuzi (Tirana, Albania)*
- Time: 2010 (Oct.-Dec.)
- Pers. funds: € 12.648- (estimate based on € 4.206 brutto BATIIa per month)

16. *Changing patterns of shortening, and lateral extension at the end of the axial zone in a mountain belt - the case of the Tauern Window at the eastern end of the Alps*

- Source: German Science Foundation (DFG)
- Employees: Silvia Favaro (PhD), Sandra Wollnik (student assistant)
- Time: 2009-2013
- Pers. funds: € 78.000-
- Other funds: € 72.550-

17. *Slab tearing or slab retreat as triggers of extension at the Dinaric-Hellenic transition*

- Source: German Science Foundation (DFG)
- Co-PIs: Jörg Giese, Jan Pleuger
- Employees: Marc Grund (PhD), N.N. student assistant
- Time: 2017-2020
- Pers. funds: € 155.300-
- Other funds: € 33.997-

18. *Mountain Building Processes in 4-Dimensions (4D-MB), Coordination of SPP 2017*

- Source: German Science Foundation (DFG)
- Co-PIs: none

- Employees: Derya Gürer (post-doc)
- Time: 2017-2020
- Pers. funds: €211.000-
- Other funds: € 205.400-

19. Linking surface kinematics to deep structure of the Adriatic indenter near a potential subduction-polarity switch – the Giudicarie Belt, Southern Alps

- Source: German Science Foundation (DFG)
- Co-PIs: Christian Haberland (GFZ), Eline Le Breton
- Employees: Vincent Verwater (PhD), N.N. student assistant
- Time: 2017-2020
- Pers. funds: € 153.640-
- Other funds: € 75.000-

20. Understanding subduction by linking surface exposures of subducted and exhumed crust to geophysical images of slabs

- Source: German Science Foundation (DFG)
- Co-PIs: Jan Pleuger, Frederik Tilmann (GFZ), Timm John, Boris Kaus (Mainz), James Mechie (GFZ), Xiaohui Yuan (GFZ)
- Employees: Philip Gross (PhD)
- Time: 2017-2020
- Pers. funds: €146.500-
- Other funds: € 60.210-

Total external funding* € 3.055.912-

* This sum does not include the total of €10.300.000- obtained from the DFG as principle author of the SPP-2017.