

Prof. Dr. Kurosch Thuro – Supervised PhD Students and Topics 2004 – 2024

State 12.09.2024

PhD Students:

Main supervision: **37** (1.85 per year)
 Co-Supervision: **27** (1.35 per year)
 Total PhD Students finished: **64** (3.2 per year)
 Current PhD Students: **5**

Topics:

L – Landslides
T – Tunnelling
G – Geomechanics in Geothermal Systems
E – other Engineering Geology Topics

Main Supervision	Co-Supervision	Year	Author	Title	L	T	G	E
37		2024	Sonnenwald Margreta	Marble production in the 18th century from quarrying to polished polychrome carbonate rocks in Central Europe <i>Marmorproduktion im 18. Jahrhundert Vom Abbau bis zur Politur polychromer Karbonatgesteine in Mitteleuropa</i>				17
36		2024	Breuninger, Tamara	Geological and Geotechnical Evaluation of a Landslide Prone Slope in an Informal Settlement in Medellín, Colombia	23			
	27	2024	Jessen, Johannes	Foam injections for face stabilization in coarse-grained soils <i>Schauminjektionen zur Ortsbruststabilisierung in grobkörnigen Böden</i>		18		
	26	2024	Hug, Lisa	Simulation of Crack Propagation in Complex Geometries using Phase-Field Modeling and the Finite Cell Method			6	
35		2024	Keilig, Klaus-Peter	Anatomy of a landslide – Mapping, monitoring, and modelling of the Tskneti-Akhaldaba landslide, Tbilisi, Georgia	22			
34		2024	Lehmann, Gabriel Matthias	Evaluation and optimisation of small-diameter tunnel boring machines in hard rock		17		
33		2024	Gamperl, Moritz Stanislaus	Implementation of a Landslide Early Warning System considering informal settlements in Medellín, Colombia	21			
	25	2022	Rechberger, Christina	Deep-seated rock slides in foliated metamorphic rock masses: Characterising, monitoring, and modelling (University of Natural Resources and Life Sciences, Vienna, Austria)	20			
	24	2022	Haas, Maximilian Mathias	Geological and multi-analytical investigations on the predictability of application scenarios for soft, clay-rich sedimentary rock for CERN's future subsurface infrastructure in the Geneva Basin, Switzerland-France (Montanuniversität Leoben, Austria)		16		
	23	2021	Marsch, Kristofer	Shear strength estimation of rock discontinuities – Are the present roughness quantifications forward-looking for engineering use? (Technical University of Berlin, Germany)				16
32		2021	Stockinger, Georg	Geomechanical Reservoir Characterisation of the Upper Jurassic Limestones in the Bavarian Molasse basin			5	
	22	2020	Kaspar, Markus	Geomorphology, Geomechanics, and Geochronology of the Dangkar Landslide, Himachal Pradesh, India (Technical University of Graz, Austria)	19			
31		2020	Ellecosta, Peter	Determining abrasivity for hard rock TBM tunnelling		15		
30		2020	Potten, Martin	Geomechanical characterization of sedimentary and crystalline geothermal reservoirs			4	
29		2020	Zumbrunnen, Thomas	Risk management of natural hazards in a national road network using the districts of Traunstein and Berchtesgadener Land as case studies <i>Risikomanagement von Naturgefahren in einem überregionalen Straßennetz am Beispiel der Landkreise Traunstein und Berchtesgadener Land</i>	18			
	21	2020	Knopp, Julia	Weathering dependent softening processes of soft clay and clay-siltstones of Keuper claystones (University Stuttgart) <i>Verwitterungsabhängige Entfestigungsvorgänge von veränderlich festen Ton- und Schlufftonsteinen am Beispiel von Keupertonsteinen (University of Stuttgart, Germany)</i>				15
28		2020	Ettenhuber, Regina	Resource-efficient use of sand and gravel deposits based on petrographic and petrophysical investigation <i>Ressourceneffiziente Lagerstättennutzung durch Verwertung mineralischer Reststoffe in der Sand- und Kiesindustrie</i>				14

	20	2019	Stoxreiter, Thomas	Rock mechanical investigations related to the development of an alternative drilling technology (Montanuniversität Leoben, Austria)			3	
	19	2019	Seithel, Robin	Geomechanical characterization of geothermal reservoirs in the Bavarian Molasse Basin (Karlsruhe Institute of Technology, Germany)			2	
27		2019	Mraz, Elena	Reservoir Characterization to Improve Exploration Concepts of the Upper Jurassic in the Southern Bavarian Molasse Basin			1	
26		2018	Prins, Constantin	Geophysical and engineering geological karst reconnaissance on the Swabian Alb high plain, new line Wendlingen–Ulm, southwestern Germany			14	
	18	2017	Dammyr, Oyvind	Engineering geological considerations for the planning of TBM tunnels in Norway (NTNU Trondheim, Norway)			13	
	17	2017	Nie, Wen	Estimating and predicting pore-pressure influence on deep-seated landslides	17			
25		2016	Wieser Carola	Quantifying the Effect of Stress Changes on the Deformation and Cracking Behavior of Solid Rock using Acoustic Emission			12	
	16	2016	Erben, Hartmut	Online Material Analysis and Development of an Exchange and Trading Platform for Mineral Resources from Underground Construction Projects (Montanuniversität Leoben, Austria)			11	
	15	2016	Confuorto, Pierluigi	From site-scale to large areas monitoring of ground deformation phenomena by integration of different DInSAR techniques in Crotona Province, Southern Italy (University of Napoli, Italy)	16			
24		2016	Wilfing, Lisa	The Influence of Geotechnical Parameters on Penetration Prediction in TBM Tunneling in Hard Rock			10	
23		2015	Menschik Florian	Analysis of Performance and Wear of Electrical Rock Hammer Drills			9	
	14	2015	Schleier, Markus	Rock-slope failures in Innerdalen and Innfjorddalen, western Norway: rock-slope instabilities and rock avalanches in a changing landscape following the melt down of the Scandinavian ice sheet (Friedrich-Alexander University, Erlangen-Nuremberg, Germany)	15			
	13	2015	Strauhal, Thomas	Geological-Hydrogeological and Geomechanical Characterisation of Deep-Seated Rockslides in Metamorphic Rocks (University of Natural Resources and Life Sciences, Vienna, Austria)	14			
22		2015	Feistl, Thomas	Vegetation effects on avalanche dynamics	13			
21		2015	Mitterer, Agnes	The genesis of sediments with authigenic, crystalline SiO ₂ to form tripoli deposits <i>Die Genese von Sedimenten mit authigenem, kristallinem SiO₂ zur Bildung von Tripellagerstätten</i>				13
20		2014	Festl Judith Susanna	Analysis and Evaluation of the Geosensor Network's Data at the Aggenalm Landslide, Bayerischzell, Germany	12			
19		2014	Sellmeier, Bettina (now: Menschik)	Quantitative parameterization and 3D-run-out modelling of rockfalls at steep limestone cliffs in the Bavarian Alps	11			
18		2014	Beer, Silvia	Development of a concept for the integration of geoscientific data into an intermunicipal spatial data infrastructure and 3D visualisation using the city of Straubing and the district of Straubing-Bogen as case studies <i>Entwicklung einer Konzeption für die Integration geowissenschaftlicher Daten in eine interkommunale Geodateninfrastruktur und 3D-Visualisierung am Beispiel der Stadt Straubing und des Landkreises Straubing-Bogen</i>				12
	12	2014	Tessitore, Serena	Application of DInSAR techniques to the monitoring of ground deformations (University of Napoli, Italy)	10			
	11	2014	Moser, Dorothea	Characterization of damage in rocks during impact processes with non-destructive testing <i>Charakterisierung von Schädigungen in Gesteinen bei Impaktprozessen mit zerstörungsfreier Prüfung</i>				11
	10	2014	Nikolaeva, Elena	Landslide kinematics and interactions studied in central Georgia by using synthetic aperture radar interferometry, optical imagery and inverse modelling (University of Potsdam, GFZ Potsdam, Germany)	9			
17		2014	Köppl, Florian	Wear of excavation tools and empirical wear prediction during tunnelling with slurry shield TBMs in soils <i>Abbauwerkzeugverschleiß und empirische Verschleißprognose beim Vortrieb mit Hydroschild TVM in Lockergesteinen</i>			8	
	9	2013	Entacher, Martin	Measurement and interpretation of disc cutting forces in mechanized tunneling (Montanuniversität Leoben, Austria)			7	

	8	2013	Bach, Holger	Evaluation of attrition tests for railway ballast (Technical University of Graz, Austria)				10
	7	2013	Kübler, Simon	Active tectonics of the Lower Rhine Graben (NW Central Europe) based on new paleoseismological constraints on implications for coseismic rupture processes in unconsolidated gravels (Ludwig-Maximilians-University, Munich, Germany)				9
16		2012	Plank, Simon	Pre-survey suitability analysis of the differential and persistent scatterer synthetic aperture radar interferometry method for deformation monitoring of mass movements and subsidence	8			
	6	2012	Neidinger, Sarah	Development of a testing procedure for the evaluation of rock properties within the scope of the internal quality control <i>Entwicklung eines Prüfverfahrens zur Bewertung von gesteintechnischen Eigenschaften im Rahmen der werkseigenen Produktionskontrolle</i>				8
15		2012	Lempe, Bernhard	The geological conditions on the GK25 map no. 8027 Memmingen with special consideration of the weathering phenomena in Pleistocene meltwater gravels and their influence on its structural properties. Development of a weathering classification <i>Die geologischen Verhältnisse auf der GK25 Blatt Nr. 8027 Memmingen unter besonderer Berücksichtigung der Verwitterungserscheinungen in pleistozänen Schmelzwasserschottern und deren Einfluss auf ihre bautechnischen Eigenschaften. Entwicklung einer Verwitterungs-Klassifizierung</i>				7
14		2012	Willerich, Sebastian	Characterization of deep seated slope movements regarding hazard zoning – the case study of Algund / South Tyrol <i>Charakterisierung tiefgründiger Hangbewegungen vor dem Hintergrund der Gefahrenzonierung am Beispiel Algund / Südtirol</i>	7			
13		2011	Wendl, Katharina	Geological documentation, analysis and evaluation of slurry shield tunneling <i>Ingenieurgeologische Vortriebsdokumentation und Auswertung von Hydroschildvortrieben</i>		6		
	5	2011	Türtscher, Matthias	Analysis and prognosis of penetration and advance rates for hard rock TBM tunnelling <i>Analyse und Prognose von Penetration und Vortriebsgeschwindigkeit bei maschinellen Vortrieben im Festgestein</i> (University of Innsbruck, Austria)		5		
12		2011	Tadayonfar, Gholamreza	Numerical modelling of the geological and mechanical processes of the Sudelfeld landslide <i>Numerische Modellierung der geologischen und mechanischen Prozesse der Hangbewegung am Sudelfeld</i>	6			
	4	2010	Ehret, Dominik	Seismic microzonation of Bucharest <i>Seismische Mikrozonierung von Bukarest</i> (Friedrich-Alexander University, Erlangen-Nuremberg, Germany)				6
	3	2010	Bärtschi, Christoph Jürg	Siliceous limestones in Switzerland: Characterisation of a raw material from a geological, petrographical, economic and environmental perspective <i>Kieselkalke der Schweiz: Charakterisierung eines Rohstoffs aus geologischer, petrographischer, wirtschaftlicher und umweltrelevanter Sicht</i> (Swiss Federal Institute of Technology, ETH Zurich, Switzerland)				5
	2	2010	Prager, Christoph	Geological conditions, age and structure of the Fernpass landslide and deep-seated mass movements in the vicinity (Tyrol, Austria) <i>Geologie, Alter und Struktur des Fernpass Bergsturzes und tiefgründiger Massenbewegungen in seiner Umgebung (Tirol, Österreich)</i> (University of Innsbruck, Austria)	5			
11		2010	Singer, John	Development of a continuous monitoring system for instable slopes using Time Domain Reflectometry	4			
10		2010	Holzhauser, Philipp	Determination of shear strength of weak rock with regard to unstable slopes <i>Bestimmung der Scherfestigkeit an veränderlich festen Gesteinen in Hinblick auf Hangbewegungsphänomene</i>	3			
9		2009	Käsling, Heiko	Determination of rock abrasively - basics, application and limits of use in hard rock TBM tunnelling		4		

				<i>Bestimmung der Gesteinsabrasivität – Grundlagen, Anwendung und Einsatzgrenzen bei maschinellen Tunnelvortrieben</i>				
8		2009	Frenzel, Christian	Prognosis of costs for disk cutters in hard rock TBM tunnelling <i>Kostenprognose für Schneidrollen bei maschinellen Tunnelvortrieben in Festgesteinen</i>		3		
7		2009	Weiber, Bernd Manfred	Prognosis of rock properties in stone industry as support for exploration and quality assessment <i>Kennwertprognosen in der Natursteinindustrie als Hilfestellung für Erkundung und Qualitätssicherung</i>				4
6		2009	Schormair, Niklas	Influence of the anisotropy of the rock excavatability in tunnelling - observation and model. <i>Einfluss der Anisotropie bei der Gebirgslösung im Tunnelbau – Beobachtung und Modell</i>		2		
	1	2008	Hoepffner, Roland	Distributed Fiber Optic Strain Sensing in Hydraulic Concrete and Earth Structures. Measuring Theory and Field Investigations on Dams and Landslides	2			
5		2008	Gillhuber, Stephanie Maria	Application-related physical rock properties and weathering processes of the Teplá trachyte. <i>Anwendungsbezogene gesteinsphysikalische Eigenschaften und Verwitterungsprozesse des Teplá-Trachyts</i>				3
4		2008	Eickhoff-Baumann, Luciana Patrícia	Mineralogical and mechanical investigations on the grindability of cement clinker <i>Mineralogische und mechanische Untersuchungen zur Mahlbarkeit von Zementklinkern</i>				2
3		2007	Rauh, Florian	Investigations on the swelling behaviour of anhydrite and clays in tunnelling. <i>Untersuchungen zum Quellverhalten von Anhydrit und Tongesteinen im Tunnelbau</i>		1		
2		2007	Nickmann, Marion	Classification of weak rock in engineering geological practice. <i>Abgrenzung und Klassifizierung veränderlich fester Gesteine unter ingenieurgeologischen Aspekten</i>				1
1		2006	Volland, Sabine	Sediment dynamics in Lago Calafquén and Lago Villarrica (Northern Patagonia – Chile): A baseline study on sedimentological processes and considerations in assessing palaeoenvironmental change	1			