	Holger Pagel Postdoctoral researcher Biogeophysics University of Hohenheim Institute of Soil Science and Land Evaluation Office Room 143, Emil-Wolff-Str. 27, 70599 Stuttga e-mail holgerp@uni-hohenheim.de phone +49 711 459 22935 status married, 2 sons/ 1 daughter born 26-03-1979 web https://biogeophysik.uni-hohenheim.de/holge https://orcid.org/0000-0003-2424-351X https://scholar.google.com/citations?hl=de&cuse	r-pagel
Research statement	The response of soil systems to environmental emerges from complex biochemical and physic feedbacks. My research seeks to unravel the comp mechanisms of biogeochemical cycling in soil. This caresearch strategy that systematically combines matter with experimental approaches and effective data ana In my research, process-based models are develop powerful quantitative tools for studying h biogeochemical interactions control soil functions. M by experimental data including information on the microbial communities and their functions that advanced stable isotope and molecular biology methods.	al interactions and blexity of regulation alls for an integrative hematical modelling lysis. ped and applied as ow physical and lodelling is informed ne structure of soil are obtained using
Current position University of Hohenheim Institute of Soil Science and Land Evaluation	 Postdoctoral Researcher since 2021 – PRESENT TraiMErgy Integrated Trait-Based Modeling of Carbon and Energy Flows in Soil Systems TraiMErgy aims at the complex interplay between the soil microbiom and the carbon and energy flows in soil. Our central hypothesis is that the functional complexity of the soil microbiome and SOM contro matter and energy flows in soil systems. This hypothesis is tested using novel, complex, data-driven bioenergetic SoilSystems Model: SoSyM-C SoSyM-C will integrate biogeochemical, thermodynamic, multi-omic and isotopic data. The outcome of TraiMErgy will be a deepe understanding of soil organic matter turnover, coded in a mechanistic robust and predictive biogeochemical-bioenergetic model. 	
Bibliometrics Google Scholar (June 2022)	Peer reviewed publication h-index Total number of citations	22 11 310

Academic career and work experience	Postdoctoral Researcher and Lecturer (75% due to childcare) 2020 - 2021 Head of Young Investigator Group (75% due to childcare) 2015 - 2019	
University of Hohenheim		
Institute of Soil Science and Land Evaluation	SoilReg Microbial Regulation of Soil Functions in Agro- Ecosystems	
	The goal of SoilReg's research was to elucidate the small-scale regulation of soil functions by microorganisms and its relevance for matter cycling. We developed and applied process-based biogeochemical models in combination with experimental work to understand how microbial traits and spatial heterogeneity of soils regulate carbon cycling and pesticide turnover.	
	PhD in Agricultural Sciences - summa cum laude (5 month parental leave: 07-08/ 2009, 02/ 2010, 04/ 2011, 05/ 2012) 2008 - 2015	
	The Detritusphere as Biogeochemical Interface for Bacterial and Fungal Degradation of MCPA and Phenanthrene Mentors: Profs. Thilo Streck and Ellen Kandeler	
	Identifying regulation mechanisms of accelerated degradation of organic chemicals in soil	
	 Development of the process-based C turnover model PECCAD Performance and evaluation of complex laboratory experiment using isotopically labelled compounds (¹³C, ¹⁴C) 	
Technische Universität Berlin	Diploma in Environmental Technology 1998 - 2007	
Institute of Ecology	Sandy soils as source of colloidal phosphorus in leachates of agricultural soils (Thesis) Mentor: Prof. Martin Kaupenjohann	
	Evaluating drivers of colloid-facilitated phosphorus transport usin experiments with undisturbed soil columns	
	 Development of an extraction method for measuring colloids phosphorus Comprehensive analysis of colloids and phosphorus in so solutions 	
	Self-employee 2007	
	DFG Graduate Research Programme "Perspectives on Urban Ecology II"	
	Support with soil column experiments on transport and sorption of th herbicide glyphosate in urban soils	

Student assistant

2005 - 2006

DFG project "Mobilization and Mobility of colloidal phosphorus in sandy soils"

Experimental support and analysis of colloids and phosphorus including data evaluation

Russian acadamy of sciences - Novosibirsk	Trainee 2007 (2 months)
Institute of Agrochemistry and Soil Science	Support in soil mapping and organisation of a soil ecological excursion
Teaching	Environmental Modelling (Computer exercises) 2015 - 2022 (2 SWS), University of Hohenheim
	Modeling of Microbial Activity and Bioreactive Transport 2016 & 2019, Fall schools RTG 1829
	Bodenkundliche Geländeübungen 2008 - 2012, University of Hohenheim
Current research	LOWPESTS Low-cost observations for water-air-soil of pesticides in Ethiopian soils using time-integrated samplers 2021-2022 with Dr. Alexander Haluska (University of Tübingen) Fast-start funding for joint projects on topics related to Africa by the Universities of Hohenheim and Tübingen
	TraiMErgy Integrated Trait-Based Modeling of Carbon and Energy Flows in Soil Systems 2021-2024 DFG (subproject of PP 2322 SoilSystems)
	BabbA Biologisch abbaubare Beutel in derBioabfallverwertung: Potential zur Verdrängungkonventioneller Plastikbeutel, Abbau in der Anlage,Umweltrelevanz - TP 2: Abbauverhalten im Boden2021-2022BWPLUS, Ministerium für Umwelt, Klima und EnergiewirtschaftBaden-Württemberg
	CROP Combining ROot contrasted Phenotypes for more resilient agro-ecosystem 2020-2024 (Phase I) – 031B0909B BMBF Rhizo4Bio
	RTG 1829 "Integrated Hydrosystem Modelling" since 2018 (third cohort)