Curriculum Vitae

Name: Thomas (Johannes Arnold) Scholten
Address: Department of Geosciences
Chair of Soil Science and Geomorphology
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Date of birth: 21 November 1960
Place of birth: Rheine/Westfalen, Germany
Nationality: Netherlands (NLD)

Research Topics

Soil Science, Environment, Geomorphology, Geoecology, Soil Erosion, Machine Learning

Education

Institution	Years	Degrees
Justus-Liebig-University, Gießen	1997-2002	Habilitation in Soil Science and in Physical Geography (PD, Dr. habil.)
Westfälische Wilhelms-University, Münster	1991-1996	Ph.D. in Soil Science (Dr. rer. nat.)
Westfälische Wilhelms-University, Münster	1985-1990	Diploma in Physical Geography (Landscape Ecology), Geology and Mineralogy
Bischoff & Klein GmbH, Packaging Manufacturers, Lengerich	1983-1984	Technician, Machine operator
General Hospital 'Haus Widum', Lengerich	1980-1982	Technician
State Grammar School, Lengerich	1970-1979	Abitur (Gymnasium, graduated)
Catholic Primary School, Lengerich	1966-1969	Primary School

Appointments/Affiliations

Institution	Years	Position
Department of Geoscience, Faculty of Science, Eberhard Karls University Tübingen	2005-present	Chair of Soil Science and Geomorphology (full professor)
Institute of Geography, Faculty of Chemistry and Geoscience, Friedrich-Schiller-University, Jena	2002-2004	Full professor for Physical Geography and Soil Science
Institute of Soil Science and Soil Conservation, Faculty of Agriculture, Justus-Liebig-University of Giessen, Germany	1994-2001	Postdoc/Research Scientist (Prof. Dr. Peter Felix-Henningsen)
Institute of Geography, Faculty of Science, Westfälische Wilhelms-University, Münster	1990-1993	Research Assistant, Chair of Landscape Ecology (Prof. Dr. Karl-Friedrich Schreiber)
Institute of Geography, Faculty of Science, Westfälische Wilhelms-University, Münster	1985-1989	Student Assistant, Chair of Climatology and Environmental Studies (Prof. Dr. Wilfried Bach)

International and national recognition and research leadership

Referee for Donor Organizations and Science Foundations including ESF (Europe), SNSF (Switzerland), NWO (Netherlands), FWO (Belgium), CFI (Canada), ÖAW (Austria), AOF (Finnland), DFG, Humboldt Foundation, Leibnitz Society, BMBF, DAAD, German National Academic Foundation, BEAF

Referee for international journals in soil science, environmental science, ecology, and geomorphology, member of the editorial board of 'Journal of Plant Nutrition and Soil Science' (JPNSS), 'Pedosphere' and 'Grassland Research', editor of 'Zeitschrift für Geomorphologie/Annals of Geomorphology' (ZfG), principle editor of 'Tübinger Geographische Studien' (TGS) and of 'RESOURCECULTURES', Tübingen University Press (TUP).

Institution	Years	Position
German Council of Science (Wissenschaftsrat, WR)	2022-	Invited member of the working group for the assessment of the scientific system
Eberhard Karls University of Tübingen (UT)	2022-	Elected member of the council of the Faculty of Science
Central Asian Institute for Applied Geosciences (CAIAG)	2021-	Elected member of the scientific advisory board
Eberhard Karls University of Tübingen (UT)	2021-	Elected member of the Steering Committee in the Cluster of Excellence 'Machine Learning - New Perspectives for Science' of the German Research Foundation (DFG)
German National Academy of Science and Engineering (Acatech)	2020	Invited member of the working group 'Resilient and Sustainable Food Supply in the Coronavirus Crisis'
German National Academy of Science and Engineering (Acatech)	2019-2023	Chair of the working group 'Pathways to Sustainable Nitrogen Management'
Eberhard Karls University of Tübingen (UT)	2019-	Principle Investigator in the Cluster of Excellence 'Machine Learning - New Perspectives for Science' of the German Research Foundation (DFG)
Eberhard Karls University of Tübingen (UT)	2017-	Co-Speaker of the Collaborative Research Center (SFB 1070) `ResourceCultures´ of the German Research Foundation (DFG)
Leibniz Association	2016-	Invited member of the Senate Competition Committee (SAW)
German National Academy of Science and Engineering (Acatech)	2016-	Academician (full lifetime member)
Eberhard Karls University of Tübingen (UT)	2016-	Elected member of the Advisory Board of the excellence plattform 3 'Environmental System Analysis'
Friedrich Schiller University Jena, Germany	2015-	Invited member of the Advisory Board of the Faculty of Chemistry and Earth Sciences
Federal Ministry of Research and Education (BMBF)	2015-	Chair of the Scientific Advisory Board of BonaRes (Soil as a natural

		resource) at the Helmholtz Centre for Environmental Research - UFZ
United Nation Food and Agricultural Organization (UN FAO)	2015	Co-author of UN FAO Global Soil Partnership Research Strategy
International Soil Science Society (ISSS)	2014-2022	Elected chair of commission 1.2 on Soil Geography"
Federal Ministry of Research and Education (BMBF)	2014-	Invited member of Scientific Advisory Board for the development of a China-Strategy in the field of Environmental Technology/Water/Climate/Geo-sciences/Polar-and Marine Research (official expert)
Eberhard Karls University of Tübingen (UT)	2014-	Elected member of the Commission on Quality Management of the University of Tübingen
Eberhard Karls University of Tübingen (UT)	2013-	Elected member of the Structural Commission of the Senate of the University of Tübingen
Eberhard Karls University of Tübingen (UT)	2013-	Council member of the Collaborative Research Centre (SFB) 1070 'ResourceCultures' of the German Research Foundation (DFG)
Federal Ministry of Research and Education (BMBF)	2013-2020	Invited member of the Scientific Advisory Board of the GFZ German Research Centre for Geosciences (Helmholtz Centre Potsdam)
Federal Ministry of Research and Education (BMBF)	2013-2019	Invited member of the Scientific Advisory Board "Nachhaltiges Landmanagment – Innovative Systemlösungen"
Federal Ministry of Environment (BMU)	2013-	Invited member of the Scientific Advisory Board "EU-Bodenrahmenrichtlinie"
Eberhard Karls University of Tübingen (UT)	2010-	Elected member of Research Commission of the Faculty of Science
German Research Foundation (DFG)	2006-2009	Invited member of the China Working Group of the Senate Commission Water Research (KoWa)
Eberhard Karls University of Tübingen (UT), Department of Geoscience	2007-	Steering group member, vice-speaker since 2011
Eberhard Karls University of Tübingen (UT), Department of Geoscience, Institute of Geography	2006-	Director 2006-2011, vice-speaker 2012-2015, speaker since 2016, chairman of the audit committee for BSc, MSc and MA courses in Geography 2015-2019
German Geographical Society (VGDH)	1998-	Working group member of Geomorphology since 1998
German Federal Association of Soil Science (BVB)	1996-	Individual member, invited member of Expert group on Soil Erosion and Soil Protection 1998-2004

European Society for Soil Conservation (ESSC)	1994-	Individual member, council and steering committee member since 2004
German Society of Soil Science (DBG)	1989-	Individual member, past president 2016-2019, president 2012-2015, vice president 2008-2011, council member since 2006, chairman of Commission V 'Soil Genesis, Soil Classification and Soil Mapping' 2006-2007, working group on Paleopedology AKPP since 1994

Publications and research projects

Professor Scholten has published widely in soil science, environmental science and geoscience, having authored 14 books and book chapters, 288 refereed papers and 457 conference papers. He has received research grants from over 15 institutions, principally the European Union (EU), the German Research Foundation (DFG) and the German Federal Ministry of Education and Research (BMBF).

For more information on publications and research projects see
www.uni-tuebingen.de/soilscience
www.researcherid.com/rid/E-4024-2012
www.orcid.org/0000-0002-4875-2602
www.scholar.google.de/citations?user=mKeZkJEAAAAJ
www.researchgate.net/profile/Thomas_Scholten

Kurzlebenslauf

Thomas Scholten ist Professor für Bodenkunde und Geomorphologie. Seine Fachgebiete und Forschungsaktivitäten adressieren Umweltfragen zum Klimawandel, zur Biodiversität und zum nachhaltigen Umgang mit unserer Erde mit einem Fokus auf Bodengesundheit. Methodisch kommen in erster Linie bodenchemische Analysen und datenbasierte Modellierungen mit Verfahren des Maschinellen Lernens zur Anwendung. Er arbeitet in Europa, Afrika, Asien und Südamerika, wo wichtige Forschungsprojekte im südlichen Afrika, China, Nepal, Chile, der Schweiz und Deutschland stattfinden. Professor Scholten hat zahlreiche Publikationen in den Bereichen Bodenkunde, Umwelt- und Geowissenschaften veröffentlicht. Er ist Autor von 14 Büchern und Buchkapiteln, 288 begutachteten Artikeln und 457 Konferenzbeiträgen. Er erhält Forschungsgelder von über 15 Institutionen, vor allem von der Europäischen Union (EU), der Deutschen Forschungsgemeinschaft (DFG) und dem Bundesministerium für Bildung und Forschung (BMBF). Er ist Gutachter für eine Vielzahl internationaler Fachzeitschriften, war Gastredakteur bei Geoderma, Catena, Soil Systems, Agronomy und Frontiers in Earth Science und ist derzeit Mitglied der Redaktionsausschüsse mehrerer Fachzeitschriften, darunter Journal of Plant Nutrition und Soil Science, Pedosphere und Grassland Research. Seit 2004 ist Thomas Scholten Ratsmitglied der European Society for Soil Conservation (ESSC). Seit 2006 ist er Direktor des Instituts für Geographie an der Universität Tübingen. Von 2012-2015 war er Präsident der Deutschen Bodenkundlichen Gesellschaft (DBG). Im Jahr 2016 wurde er zum Mitglied der Deutschen Akademie der Technikwissenschaften (acatech) gewählt. Seit 2017 ist er Co-Sprecher des Sonderforschungsbereichs (SFB 1070) `ResourceCultures' der Deutschen Forschungsgemeinschaft (DFG) und seit 2019 Principal Investigator im Exzellenzcluster 'Machine Learning - New Perspectives for Science' an der Universität Tübingen. Im Jahr 2022 wurde er vom Wissenschaftsrat (WR) als Mitglied einer Arbeitsgruppe zur Bewertung des Wissenschaftssystems eingeladen. Darüber hinaus engagiert er sich in verschiedenen Expertengruppen und ist Gutachter für mehrere nationale wie internationale wissenschaftliche Förderorganisationen.

Short CV

Thomas Scholten Thomas Scholten is Professor of Soil Science and Geomorphology. His areas of expertise and research activities address environmental issues related to climate change, biodiversity and sustainable management of our earth with a focus on soil health. Methodologically, primarily soil chemical analyses and data-based modeling with machine learning techniques are applied. He works in Europe, Africa, Asia and South America, where major research projects take place in southern Africa, China, Nepal, Chile, Switzerland and Germany. Professor Scholten has published widely in soil science, environmental science, and earth science. He is the author of 14 books and book chapters, 288 peer-reviewed articles, and 457 conference papers. He receives research funding from over 15 institutions, primarily the European Union (EU), the German Research Foundation (DFG), and the German Federal Ministry of Education and Research (BMBF). He is a reviewer for a variety of international journals, has been a guest editor for Geoderma, Catena, Soil Systems, Agronomy, and Frontiers in Earth Science, and currently serves on the editorial boards of several journals, including Journal of Plant Nutrition and Soil Science, Pedosphere and Grassland Research. Since 2004, Thomas Scholten has been a council member of the European Society for Soil Conservation (ESSC). Since 2006, he has been Director of the Institute of Geography at the University of Tübingen. From 2012-2015 he was president of the German Soil Science Society (DBG). In 2016, he was elected as a member of the German Academy of Science and Engineering (acatech). Since 2017, he is co-spokesperson of the Collaborative Research Center (SFB 1070) `ResourceCultures' of the German Research Foundation (DFG) and since 2019 Principal Investigator in the Cluster of Excellence 'Machine Learning - New Perspectives for Science' at the University of Tübingen. In 2022, he was invited by the German Council of Science and Humanities (WR) to be a member of a working group evaluating the science system. In addition, he is involved in various expert groups and is a reviewer for several national and international scientific donor organizations.

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