

## CURRICULUM VITAE

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**NATIONALITY** German  
**DATE OF BIRTH** 26.07.1970

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## AREAS OF EXPERTISE AND INTEREST

Expert Evaluator for the European Commission (Horizon2020 and ERASMUS+)  
Adaptation to Climate Change  
Risk Assessment for Climate Change  
Critical Urban Infrastructure  
Natural Hazard Prevention  
Water and Waste Water  
Smart Building Materials  
Smart Cities  
Geology and Marine Science  
Paleo Climate Research  
Marine Sedimentation Processes  
Knowledge and Technology Transfer  
Project Management  
Networking

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## EMPLOYMENT HISTORY

Since Feb 2019	Expert Evaluator ERASMUS+ Programme, Federal Institute for Vocational Education and Training, Germany
Feb 2018 - April 2019	Freelancing technical consultancy service for iRock Technologies, a China based service provider for the oil and gas industry
Since August 2012	Managing Director greenKon GmbH, Knowledge and Technology Transfer, Germany
June 2007 – May 2012	Research Manager and Senior Researcher at SINTEF Coast and Harbour Research Laboratory Trondheim, Norway
2005-2006	Manager of Master Programs at the International Graduate School of Management and Digital Media at the University of Kiel
2002-2005	Consultant and Project Manager of the EXIST Project at the University of Kiel; an initiative financed by the Federal Ministry of Education and Research to support entrepreneurs from university spin-offs
2001-2002	Coordinator of a Russian-German multi-disciplinary Research Project LAPTEV SEA 2000 at the Leibniz Institute of Marine Sciences at the University of Kiel, IFM-GEOMAR
2000-2003	Entrepreneur and Managing Director of the LOGGION AG, a spin-off from the Technical Faculty of the University of Kiel. Field of work: development and construction of an underwater sensor for in situ methane detection on the sea floor

## EDUCATION & RESEARCH EXPERIENCE

- 1997-2000                      Ph.D. in Marine Science at the Leibniz Institute of Marine Sciences at the University of Kiel, IFM-GEOMAR, Germany
- 1996                              Diplom (M.Sc.) in Geology and Civil Engineering at the Aachen University of Technology, Germany
- 1992                              Vordiplom (B.Sc.) in Geology at the University of Würzburg, Germany
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## PH.D. THESIS

Hydrodynamic changes of the Mediterranean Outflow Water and their pattern in the sediments of the Iberian continental shelf.

Kiel 2000, electronic dissertation

[http://eldiss.uni-kiel.de/macau/receive/dissertation\\_diss\\_00000422](http://eldiss.uni-kiel.de/macau/receive/dissertation_diss_00000422)

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**Since Feb 2019** Expert Evaluator for ERASMUS+, KA202 - Strategic Partnerships for vocational education and training / KA2 - Cooperation for innovation and the exchange of good practices

**Jan 2018 – June 2018** Detailed geologic description from whole-core CT-scans using log and DECT-scanning data to produce rock types and sampling scheme on Minagish formation, Kuwait

**Since October 2017** Expert Evaluator for the European Commission (H2020-EIC-SMEINST, H2020-CIP-2016-2017-2, review of ongoing projects)

## PROJECTS AND TASKS AT GREENKON, CHINA (August 20012 – June 2015)

- Submission of a holistic concept for Clean Rivers to the government of Lingbao, Henan province in collaboration with the architecture office “Modul16, Beijing”
- Submission of a Master Plan for Smart Cities in China in collaboration with the architecture office “purple leaf, Beijing” and “German Biogas, China”
- Oral presentation with the title: *“How to make our cities smart - A concept for the rehabilitation of urban infrastructure”* at the Sino-German Forum – Innovative Approaches to Smart City on April 17, 2014, Beijing
- Promotion of “German Passive House in China” in collaboration with the Institute of Technical Information for Building Materials Industry of China in Beijing (ITIBMIC)

## PROJECTS AND TASKS AT SINTEF, NORWAY (June 2007 – May 2012)

- Managerial responsibility for the Coast and Harbour Research Laboratory
- Strategic development of the Coast and Harbour Research Laboratory
- Project Manager of "3D- hydraulic model study", Statoil
- Project Manager of "Wave Energy Converters for Combined Clean Energy and Coastal Protection", a bilateral project with India in the framework of RENERGI, a program funded by the Norwegian Research Council
- Project Manager of the Aknes-project to investigate tsunami effects in a Norwegian fjord caused by landslides, a project funded by Norwegian authorities.
- Project Manager of the AdaptCRVA-project “Adapting Community risk and Vulnerability analyses for Climate Change” in the framework of SAMRISK, a program funded by the Norwegian Research Council
- Vice Program Manager Klima 2050 - Climate adaptation of buildings and infrastructure for the 21st century, SINTEF internal strategic project funded by the Norwegian Research Council
- Work package leader in the EU-financed project “FloodProBE – Flood Protection of the Build Environment” under the management of Deltares, The Netherlands

- Work package leader in SAMCOT (Sustainable Arctic Marine and Coastal Technology) funded by the Norwegian Research Council
- Work package leader in a project for the implementation of Life Cycle Assessment in the construction sector, SINTEF internal strategic project funded by the Norwegian Research Council
- Work package leader in "Future Rehabilitation Strategies for Physical Infrastructure", SINTEF internal strategic project funded by the Norwegian Research Council
- Member of the European Construction Technology Platform ECTP
- Member of the reFINE initiative for developing a research agenda for infrastructure, part of the European Construction Technology Platform activities

## LANGUAGES

German – mother tongue  
English – excellent  
Norwegian – fluent  
French – basic skills

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## COMPUTATIONAL SKILLS

Extensive knowledge of the Microsoft Office Package and various graphic programs, webpage design  
Basic knowledge in SIMAPRO, software for Life Cycle Assessment

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## RECENT PUBLICATIONS

Heilemann, K., Roth, S. (2014): Anpassung an Extremwetterereignisse - Ist China gut genug vorbereitet? Econet monitor Green Markets & Climate Challenge, GIC (German Industry& Commerce (Taicang) Co., Ltd.), Bundesministerium fuer Bau, Naturschutz, Umwelt und Reaktorsicherheit (August 2014)

Heilemann, K., Balmann, E., Bruijn, K. Nie, L., Lhomme, S., Serre, D. (2013): Vulnerability of Critical Infrastructure, Assessment of direct and indirect consequences in the estimation of damage and vulnerability for infrastructure, networks and buildings, Deliverable Report FloodProBE Project, European Commission Grant Agreement No. 243401.

Serge Lhomme, Damien Serre, Linmei Nie, Linmei Nie, Kristina Heilemann, Karin De Bruijn (2012): A stepwise approach for flood risk and vulnerability assessment for urban flood critical infrastructures  
Comprehensive Flood Risk Management: Research for Policy and Practice 01/2012;

Van Ree, C.C.D.F., Van, M.A., Heilemann, K., Morris' P.M., Royet, P., Zevenbergen, C. (2011). FloodProBE: Technologies for improved safety of the built environment in relation to flood events, Environmental Science & Policy Volume14, Issue7, p. 874-883, Elsevier, ISSN 1462-9011.

Serre, D., Lhomme, S., Heilemann, K., Hafskjold, L.S., Tagg, A., Walliman, N., Diab, Y. (2011). Assessing vulnerability to floods of the built environment - integrating urban networks and buildings, International Conference on Vulnerability and Risk Analysis and Management (ICVRAM), April 11-13, 2011, University of Maryland

Bruaset S., Lerfald B.O., Hafskjold L.S., Heilemann K., Holmøy K.H. (2011): Status og utfordringer innen bærekraftig rehabilitering av infrastruktur i Norge, Byggeindustrien, Volume 43(1), page 30-34

Heilemann, K. (2010). SIP - Rehabilitation of Infrastructure in Arctic Areas: New challenges for methods, tools and materials. SINTEF report; SBF 2011 A003.

Heilemann, K., Skoglund, K. A. (2010). Rehabilitation with "Zero Hindrance and Innovative Rehabilitation Measures" - Compendium of tools and methods, SINTEF report; SBF IN A 10200.

Nie, L., Heilemann, K., Selseth I. (2010) Risk and vulnerability assessment for urban flooding in changing climate – a case study in Trondheim, SINTEF report, F21182.

Nie L., Heilemann, K. (2010). Review of the development and the results of climate change research, SINTEF report; SBF IN A10209.

- Nie, L., Heilemann, K., Hafskjold, L.S., Sægrov, S., Johannessen, B.G. (2009). Adapting community to flood risk and vulnerability caused by climate change. International Conferences of European and Global Communities combine forces on Flood Resilient Cities, Paris, France, 26-27<sup>th</sup> November 2009.
- Nie, L., Heilemann, K. (2009). Flood risk management in a legal perspective. International SamRisk seminar - Societal risk in a legal perspective. Oslo, Norway, 15-16 June. 2009.
- Lerfald, B.J., Bruaset, S., Hafskjold, L.F., Solberg, I.L., Holmøy, H.H., Moe, H.L., Heilemann, K., Bertelse, D.E., Hoff, I. (2008). SIP - Future Rehabilitation Strategies for Physical Infrastructure. Status for infrastructure in Norway, SINTEF report, SBF IN A 08016.