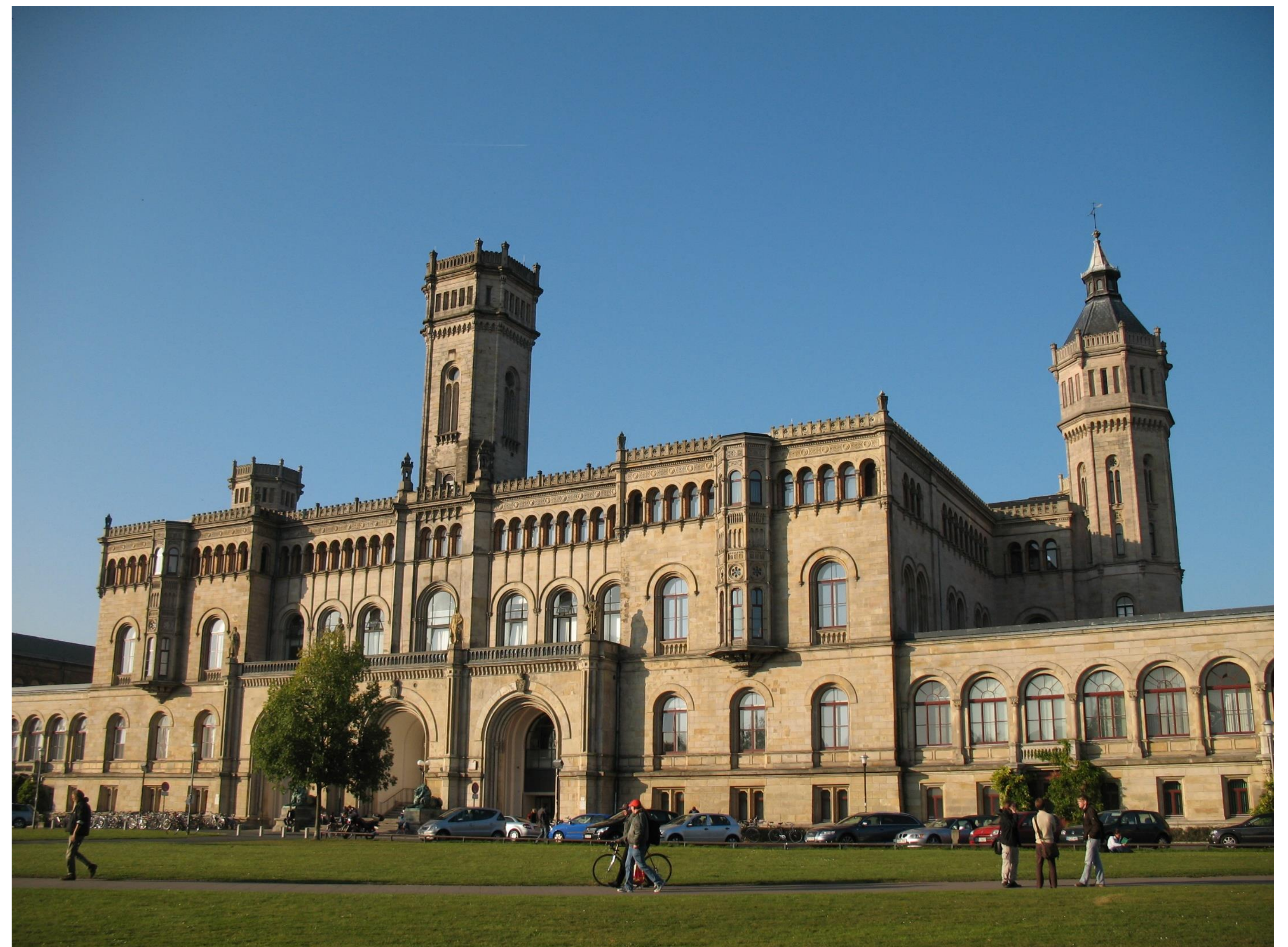


## WHO WE ARE

Leibniz Universität Hannover (LUH) has today more than 25.000 students in the natural sciences and engineering, the humanities and social sciences as well as in law and economics. Only few universities in Germany provide such a varied range of subjects and LUH is committed to further developing its profile, while attaching particular importance to interdisciplinary teaching and research. The Institute of Physical Geography and Landscape Ecology aims at research and development of approaches for integrated analyses, modelling and assessment of landscapes in various human-environmental settings. Staff members have been coordinating and involved in various projects, including EU integrated projects, national and regional-funded projects and are highly active in the Ecosystem Services Partnership (ESP) and the International Association for Landscape Ecology (IALE) governance. The Institute holds a considerable record of publications, projects and teaching, especially related to landscape ecology and ecosystem services. The ES “matrix” approach, assessing ecosystem service supply and demand in different geospatial units, has originally been developed by the lead of the group. The Institute consists at the moment of about 15 staff members.

## OUR EXPERIENCE

- ★ **Ecosystem services:** Quantification, indication, modelling and mapping of ecological functions and ecosystem goods and services, integrating supply, demand and budgets
- ★ **Landscape analysis:** Integration of ecological and human structures and functions at the landscape scale for the analysis and modeling of ecosystem properties and their development over space and time
- ★ **Human-environmental systems analysis:** Integrative assessments of ecosystems and socio-economic systems, linking ecosystem conditions, ecosystem services and human welfare within adaptive management cycles
- ★ **Landscape observation and modelling:** using terrestrial and air-based (UAV) techniques, RTK GPS, Lidar and GIS
- ★ **Long-term ecological monitoring:** soil erosion regulating ecosystem services measurement, analyses and modelling
- ★ **Ecological and socio-economic indication:** Derivation of integrated indicator frameworks, quantification of holistic indicator sets and indication of ecosystem conditions (ecological integrity), resilience and adaptability
- ★ **Science-policy interface:** bringing scientific findings into application for sustainable management of natural resources



## WHAT WE DO IN ESMERALDA

- ★ Overall project coordination, management and monitoring
- ★ Intermediary between the partners and the European Commission (EC)
- ★ Lead of WP 1 Coordination and Integration
- ★ Chairing the project’s Executive Board (EB)
- ★ Hosting the Project Management Office (PMO)
- ★ Safeguarding of the delivery of ES mapping and assessment methodologies
- ★ Ensuring a timely delivery of EU member states within Action 5

**WE ARE ALSO INVOLVED IN** EU MAES, Ecosystem Services Partnership ESP, International Association for Landscape Ecology IALE, EnvEurope



**Prof Dr.  
Benjamin  
Burkhard**

- ★ ESMERALDA Coordinator
- ★ Human-environmental interactions, ecosystem services, systems analysis
- ★ GIS-based modelling and mapping of ecosystem functions and services
- ★ Secretary General of ESP
- ★ Deputy Secretary General of IALE



**Angie Faust**

- ★ EU Project Administration
- ★ Administrative-financial Project Management



**Dr. Bastian  
Steinhoff-  
Knopp**

- ★ Landscape and ecosystem analyses and modelling
- ★ Erosion regulating ecosystem services field observations, modelling and mapping
- ★ GIS training and capacity building
- ★ UAV remote sensing pilot



**Ina Sieber**

- ★ Ecosystem services assessments
- ★ MAES in EU outermost regions and overseas countries and territories
- ★ Integrated watershed management



**Sabine  
Bicking**

- ★ Application and testing of ecosystem services mapping and assessment methods
- ★ Mapping ecosystem services in ESMERALDA case study areas