

Master Student Project / Internship:

Implementation of Actionable outcome in Neurorehabilitation (IMPACT)

Workplace:	Lake Lucerne Institute AG, Switzerland, remote 50%
Project duration:	3-6 months (flexible) at 100%, starting from mid-April 2024
Supervision:	Andre Böni cand. PhD; Johannes Pohl cand. PhD; Laura Mayrhuber cand. PhD; Sabrina Amrein MSc

Project background:

With the emergence of new technologies, the ability to quantify human movement is becoming increasingly accessible to healthcare professionals. In the coming years, instrumented movement analysis will play a significant role in capturing the individual's health status. A precise and objective evaluation of movement quality and real-life physical activities broadens the understanding of human movement behavior and allows for individualized intervention approaches. However, the interpretation of clinically relevant parameters of individuals with neurological impairments remains challenging.

The primary objective of this project is to investigate experts' experience and knowledge of relevant information needed to interpret quantified movement analysis.

To achieve this goal, we conduct focus groups using a multi-center approach, collecting healthcare professionals' opinions on clinical relevance and optimal use for enhancing informed decision-making.

Your tasks:

- Assistance in conducting multi-stakeholder focus groups within leading Swiss rehabilitation facilities.
- Use and optimise AI-driven software for transitions and content coding.
- Transcribe discussion recording.
- Conduct a content analysis using descriptive and visual approaches.

Your profile:

- Background in health sciences, biomechanical engineering, social sciences, or related fields.
- Preferably already worked with qualitative data
- High level of German-speaking and writing
- Enthusiastic, communicative, curious mind, capable of working independently

Our institute:

Lake Lucerne Institute is a non-profit independent research institute based in Vitznau, Lucerne. We employ an interdisciplinary team of researchers motivated to close the gap between theory and practice and promote novel and interdisciplinary research. The institute works closely with a neurorehabilitation centre to ensure true multi-stakeholder integration within the research projects.

The DARTLab is focused on developing and implementing technological solutions to improve neurorehabilitation outcomes. We work on digital, objective assessment solutions and their implementation into clinical routines. These are used to evaluate novel interventions applying a broad range of tools (fMRI, EEG, neurophysiology, movement analysis, robotics).

We offer:

- A unique and stimulating work environment combining world-class neurorehabilitation practice with cutting-edge research.
- Direct exposure and deep integration with a clinical research environment, incorporating a wide range of practitioners and patients.
- On-site accommodation in Vitznau, Switzerland

Curious? So are we!

To apply, please send a cover letter outlining your motivation and experience in the field, a CV, and a transcript of records to andre.boeni@llui.org, johannes.pohl@llui.org, and laura.mayrhuber@hest.ethz.ch. Questions regarding the position should also be directed to these contacts.

Further information about the Lake Lucerne Institute can be found at www.llui.org.