



# Medically Relevant Experiments with Synchrotron Radiation

University Hospital Basel, ZLF, grosser Hörsaal  
Wednesday, September 23, 2020, 15:15 - 16:45

drinks & discussion  
after the seminar  
[www.cargobar.ch](http://www.cargobar.ch)

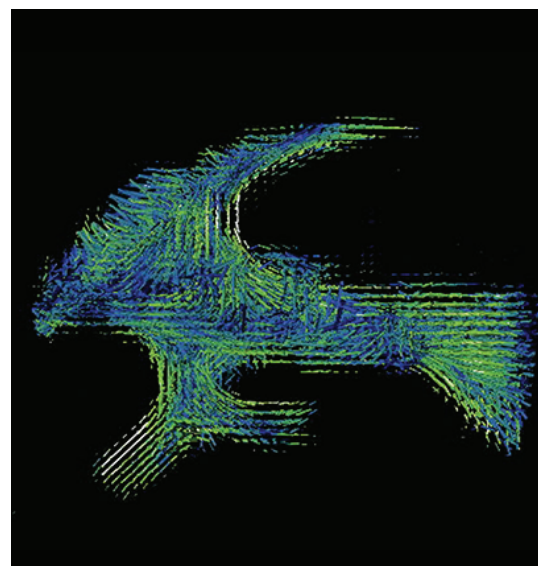
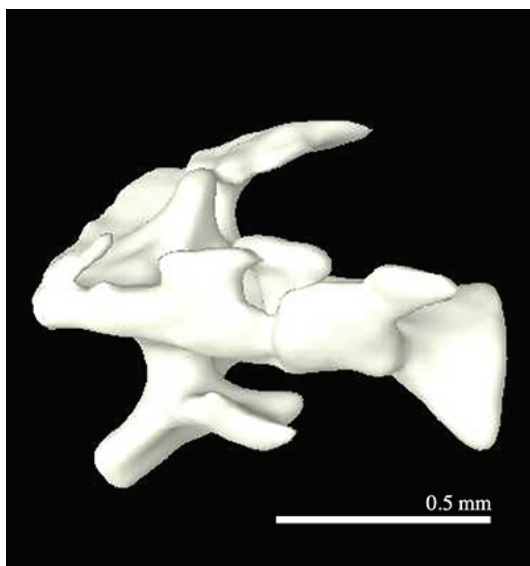
## Marianne Liebi

Empa, St. Gallen, CH

Chalmers University of Technology, Gothenburg, SE

### Nanostructure surveys of macroscopic bone specimens by small-angle scattering tensor tomography

Scanning an X-ray probe over bone samples can provide spatially resolved nano-structural information. Analyzing the localized scattering pattern allows for mapping of both the density and orientation of nano-anatomic features including hydroxyapatite crystallites and collagen fibers on centimeter-size samples. The talk will also show studies of bone formation at implant materials and of tomographic imaging.



Host: Bert Müller

Organized by the PhD-Program in Biomedical Engineering

