Heidelberg University

BioQuant
MODEL base of LIFE

IPMB

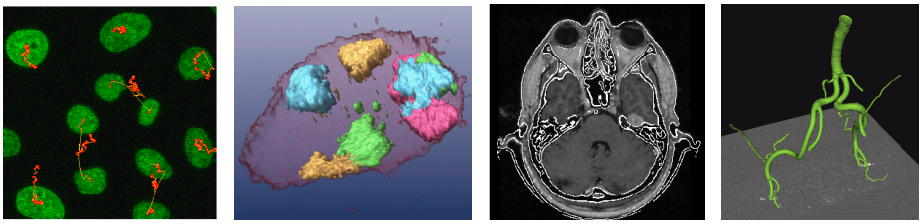
dkfz.

Master/Diploma/Bachelor Theses

offered in the

Biomedical Computer Vision Group

Heidelberg University, BioQuant Center, IPMB, and DKFZ



The research group **Biomedical Computer Vision (BMCV)** develops methods and algorithms for automated analysis of biological and medical images, in particular, cell microscopy images and medical images. Main research topics are segmentation, tracking, and registration. A focus is on deep learning methods.

The BMCV group offers interested **Master**, **Diploma**, or **Bachelor** students an opportunity to carry out their theses in an interdisciplinary field between biomedical and computational sciences. Currently, we offer the following thesis topics:

- **Segmentation of cellular structures in microscopy images**
- **Tracking of cells and particles in microscopy images**
- **Deformable registration of biomedical images**
- **Segmentation of blood vessels in medical images**

The students should study Computer Science, Medical Informatics, Electrical Engineering, Applied Mathematics or a related discipline. We expect knowledge in image analysis as well as good mathematical and programming skills (e.g., in Python, C/C++, Java).

Please send your application per E-Mail to:
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