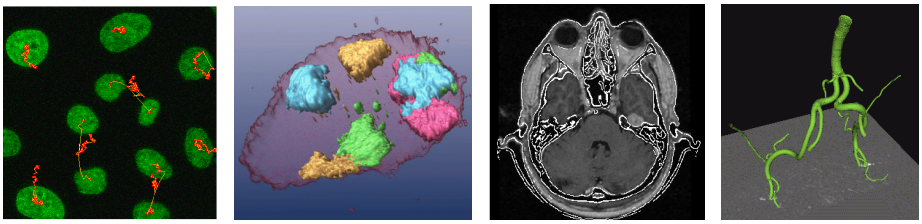
Heidelberg University

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 tomographic images. Main research topics are segmentation, tracking, registration, and machine learning. 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 radiological 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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http://www.bioquant.uni-heidelberg.de/bmcv