

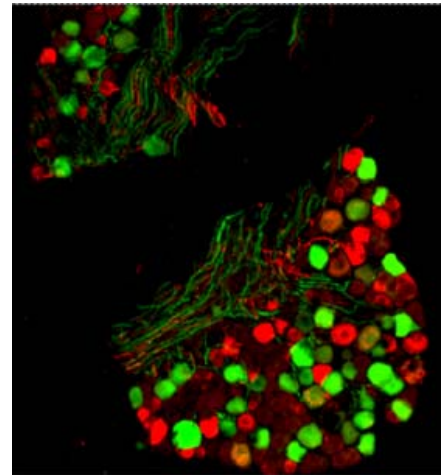


PostDoc in Biomedical Image Analysis

The Computer Vision group at the Heidelberg Collaboratory for Image Processing (HCI) headed by Prof. Björn Ommer and the Pain Research Group of Prof. Rohini Kuner at the Institute of Pharmacology have a joint opening for a fully funded PostDoc position in Biomedical Image Analysis.

The main focus of the PostDoc position will be on pursuing research in Computer Vision that is closely tied to the underlying, high resolution microscope imagery provided by biologists. Potential topics are related to recognition, segmentation, and registration of large volumes of 3D image data.

The biomedical objective of the project is to investigate the structural plasticity of nerves under the effects of pain and diseases in in-vivo tissue. Structural changes in the organization of different types of peripheral nerve afferents are studied in the periphery (skin) after chronic nerve injury. The biomedical basis for this investigation are a variety of knockout and transgenic mice and living tissue imaging methods.



Ideal candidates will have an excellent PhD degree in Computer Science, Electrical Engineering, Mathematics, or a related field. A solid background in computer vision, image analysis, and machine learning is expected and fluency in English is required (both written and spoken). Candidates should have a strong mathematical background, solid programming experience in C++ and MatLab, and a strong interest in interdisciplinary research. Experience in the biomedical foundations can be helpful but is not required since expert knowledge is already provided by the Kuner group who are conducting the biological experiments. The starting date of this position is flexible.

If you are interested in pursuing research in Computer Vision in an interesting interdisciplinary project then please send your complete application (including statement of research interests and experience, complete curriculum vitae, academic transcripts, and recommendation letters from two academic references) until November 26, 2010 by email. The screening process will already start before this deadline, so early submissions are encouraged.

Email: [hci \[dot\] applications \[at\] iwr \[dot\] uni-heidelberg \[dot\] de](mailto:hci_dot_applications_at_iwr_dot_uni-heidelberg_dot_de)

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