



# PhD scholarship Microsoft Research / TU Vienna

**About the research** The candidate should be interested in solving computer vision tasks. The research focuses on tasks such as

- Extracting geometry, illumination and objects from multiple images or depth sensors
- 3D completion of geometry and texture

The candidate should have a strong mathematical background such as a master degree in computer science, mathematics or physics. The ideal candidate has already some knowledge in machine learning and/or computer vision. Good programming skills are also a plus.



Stereo images



Depth map



3D in-painting result

**About the PhD** The three-year PhD scholarship is sponsored by Microsoft Research Cambridge (UK) and based at Vienna University of Technology (Austria). This PhD program will enable the student to work on state-of-the-art research in computer vision and machine learning, being co-supervised by a researcher within Microsoft. This usually includes visits to Microsoft Research Cambridge as well as an internship in this lab. The problems we work on are relevant to industry in the short and long term.

**About the institute** Vienna University of Technology (TU Vienna) is Austria's largest scientific-technical research and educational institution, located right in the city of Vienna. The successful applicant will carry out his/her dissertation at the Faculty of Informatics, which has a research focus on Visual Computing and Multimedia. The Microsoft Research Lab in Cambridge is an internationally renowned institute and employs many computer vision and machine learning experts.

To apply for this position, please send your application (including CV, academic records, and a letter of motivation) to Prof. Margrit Gelautz ([gelautz@ims.tuwien.ac.at](mailto:gelautz@ims.tuwien.ac.at)) and Carsten Rother ([carrot@microsoft.com](mailto:carrot@microsoft.com)). Interviews will start in spring 2011, and we expect the successful candidate to start his/her PhD studies in Vienna in fall 2011. In case you have any further questions, please do contact us by email using the above addresses.