



Two open PhD positions at the University of Bonn, Germany

POSITIONS: Fully funded positions (E13)

START DATE: Within the next 6 months.

APPLICATION DEADLINE: June 19, 2022

The Humanoid Robots Lab at the University of Bonn in Germany, headed by Maren Bennewitz, is looking for highly motivated and qualified PhD students (f/m/d) in the area of navigation, mobile manipulation, and visual perception for robots operating in human environments.

About The Candidate:

Candidates for PhD positions must hold a very good Master's degree in computer science or a related field. Solid programming skills in C++ and Python as well as expertise in working with real robotic systems are required. The candidates will be involved in teaching activities in courses on robotics offered by the lab. Very good knowledge of English is a prerequisite, the knowledge of the German language is welcome but no requirement. High interpersonal skills are a big plus and high reliability is expected.

How To Apply:

Qualified applicants holding a Master's degree in computer science, robotics, or similar should provide the following material:

- 1) Cover letter describing background and research interests, relevant experience (studies, technical projects, internships, etc.)
- 2) Programming experience (C++, Python, Tensorflow, PyBullet, Gazebo, ROS, etc.)
- 3) CV and a transcript of records
- 4) Date of availability
- 5) Names and contact information for two reference letters

All documents should be submitted by June 19 via email as a single pdf file smaller than 8 MB to: jobs22@hrl.uni-bonn.de.

About The Humanoid Robots Lab:

The Humanoid Robots Lab has been participating in several national and international projects funded by the German Research Foundation and the European Commission. The lab concentrates on robots acting in human environments, in particular, we develop techniques that allow robots to adapt their behavior to the environment and to the surrounding people thereby exploiting semantic information about objects and information about the activities of users. We have introduced several novel methods for environment modeling as well as for planning navigation and manipulation actions for wheeled and biped robots. Among them are techniques for 3D environment perception and exploration, footstep planning, manipulation planning, human-aware navigation, and imitation of human motions. Currently, we especially focus on motion planning and navigation through cluttered and dynamic scenes as well as on generating foresighted robot behavior by predicting human motions over a longer time horizon. Additionally, we work on active perception of crops for monitoring growth and enable harvesting.

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About The University/Bonn:

The University of Bonn was founded in 1818 and is one of Germany's most important institutes of higher education. As a place of learning to over 38,000 students, it enjoys an outstanding reputation both at home and abroad. It is one of the world's leading research-based universities and is one of Germany's Excellence University. Bonn is a city on the banks of the river Rhine in the German state of North-Rhine-Westphalia and has a population of 330,000. The city has been founded in the first century BC as a Roman settlement, and it is one of Germany's oldest cities. Bonn has an oceanic climate and due to its location a few kilometers south of the Cologne basin valley, it belongs to one of Germany's warmest regions along the Rhine. Bonn is located around 25 km south of Cologne. A visual impression of Bonn can be found here:

http://upload.wikimedia.org/wikipedia/commons/2/24/General_view_over_bonn.jpg

RELEVANT LINKS:

* **Humanoid Robots Lab:** <https://www.hrl.uni-bonn.de/>

* **University of Bonn:** <http://www.uni-bonn.de>

* **Bonn, Germany:** <http://en.wikipedia.org/wiki/Bonn>



Scan for more information



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