

# Julia Workshop

The workshop will provide an introduction to the programming language Julia and its use in whole genome analyses. The course consists of lectures and practical components with hands-on exercises.

## Target group and requirements:

- The course is intended for PhD students, postdoctoral researchers and scientists
- Participants should bring their own laptops with Windows, Mac or Unix operating systems installed and with docker software preinstalled ([www.docker.com](http://www.docker.com)).

## Organisation and Contact:

Chair of Plant Breeding  
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Uli Benz / TUM

**December 03 – 07, 2018**

**Technische Universität München  
Campus of the TUM School of  
Life Sciences Weihenstephan,  
Freising, Germany**

## Instructors:

Prof. Rohan Fernando/Iowa State University  
Dr. Christian Stricker/agn Genetics GmbH

## Topics covered:

- Introduction to Docker containers, Jupyter notebooks and Julia
- Use of a genetic simulation package called XSim and a whole-genome analysis package called JWAS, both of these are open-source packages that are written entirely in Julia
- Programming in Julia, including using it as a matrix calculator
- Advanced programming topics in Julia

## Registration and more information:

[www.plantbreeding.wzw.tum.de/index.php?id=132](http://www.plantbreeding.wzw.tum.de/index.php?id=132)

Deadline: **October 21, 2018**