

## Introduction to MATLAB Content

The three-day course is intended to be an introduction into the numerical software package MATLAB. MATLAB allows to write own code in a simple language than may immediately combined with the numerous built-in mathematical functions. We will give a presentation along with day-by-day practical exercises. The topics include

- Getting started with MATLAB
- Graphic functions in MATLAB
- Data Import and Export
- Basic Programming
- Convenient built-in Algorithms for Data Analysis
- (Hopefully) interesting Packages: Toolboxes for Statistics, Optimization, Partial Differential Equations

### Lecturers:

- Dr. Stefan Heitmann  
PhD 2003 Oceanography (University of Hamburg)  
Lecturer in Applied Mathematics  
stefan.heitmann (at) uni-hamburg.de  
web: <https://www.math.uni-hamburg.de/home/heitmann/>
- Dr. Ulrich Matthes  
PhD 2009 Mathematics (TU Dresden)  
Work in several externally funded projects on accelerating of PDE-based simulations  
ulrich.matthes (at) uni-hamburg.de  
web: <https://www.math.uni-hamburg.de/home/u.matthes/>