Software Writing Skills for Your Research
- Workshop for Proficient -

December 14-16, 2015

Location: Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences, Telegrafenberg, 14473 Potsdam, Germany ([directions](#))
Building: A27 (Großer Refraktor / GeoLab, [map](#))

Instructors: Martin Callaghan, University of Leeds, UK
              Edwin van der Helm, Leiden University, The Netherlands
Speakers: Lidia Stępińska-Ustasiak, University of Warsaw, Poland
Organizers: Martin Hammitzsch, GFZ German Research Centre for Geosciences, Germany

About

See http://www.gfz-potsdam.de/?id=5097 for information about this workshop.

Material

The material for the different lessons is available online at following locations:
- Recap on shell scripting and advanced techniques
    - https://github.com/vdhelm/teaching/blob/master/bash_intro.sh
    - https://github.com/callaghanmt/shell-training
- Profiling and debugging your Python codes
    - https://github.com/callaghanmt/sc-leeds-profiling
- Unit testing
    - http://katyhuff.github.io/python-testing/
- Making your code run faster
    - https://github.com/vdhelm/teaching/blob/master/Numpy.ipynb
    - https://github.com/callaghanmt/numba_cy/tree/master/cython
- Creating and managing packages and modules
    - https://github.com/callaghanmt/mod_package
- Advanced data visualisation
    - http://isakiko.github.io/D3-visualising-data/
- The power of object oriented programming
    - https://github.com/vdhelm/teaching/blob/master/OOP.ipynb
- Automation and Make
    - http://swcarpentry.github.io/make-novice/

Recordings

The lessons of the workshop were recorded. The recordings were collected in a playlist and are available on YouTube at https://goo.gl/txDsnc.