



### Foundation Masterclasses 2020-2021 – Set 3

#### **Good enough practices in research computing: *How to not lose your stuff and generally be more efficient***

**Workshop leader:** [Edward Wallace](#), School of Biological Sciences, Edinburgh

*Optional for current EASTBIO students (any year of study)*

**Date:** 26 October 2020, 10:00-13:00

This training will be delivered online via Zoom or Blackboard Collaborate. The session link will be circulated directly to students by the EASTBIO Administrator, following confirmation of registration.

#### **Workshop description:**

The workshop covers the computing equivalent of "basic lab skills" - a set of good computing practices that every researcher can adopt. The workshop is introductory and assumes no particular software knowledge; experienced computational researchers will also find new things to learn. The workshop focuses on the motivation and ideas underlying good practices such as version control software (e.g. git), but will not actually train in version control software.

#### **Learning outcomes**

The overall outcome is to give newer PhD students motivation and concepts for dealing with data efficiently, that advanced PhD students really wish they had learned earlier. Learners will become aware of problems, solutions, and tools to address common problems in Data management, Software, Collaboration, Project Organisation, Keeping Track of Changes, and writing Manuscripts. Learning outcomes include the importance of backups, structured data, README files, and modular code and data analysis.

**Training Schedule** (if online, please make allowances for a suitable length, schedule screen time, time for questions, etc.):

10am	Session 1 Welcome, Why we care, Data management, Software, Collaboration
11:15	Coffee break
11:30	Session 2 Project Organization, Keeping Track of Changes, Manuscripts, Resources

**Training can be recorded** (recording links to be circulated upon request to EASTBIO).

#### **Participation requirements:**

Recommended reading:

- **Good enough practices in scientific computing.** Greg Wilson, Jennifer Bryan, Karen Cranston, Justin Kitzes, Lex Nederbragt, Tracy K. Teal. PLoS Comput. Biol. (2017) <https://doi.org/10.1371/journal.pcbi.1005510>
- **Five selfish reasons to work reproducibly.** Florian Markowetz. Genome Biol 16, 274 (2015). <https://doi.org/10.1186/s13059-015-0850-7>

**Training web-page:** <http://www.eastscotbiodtp.ac.uk/foundation-masterclasses>

For further info, please email [enquiries@eastscotbiodtp.ac.uk](mailto:enquiries@eastscotbiodtp.ac.uk)