DATA CARPENTRY

MAKING DATA SCIENCE MORE EFFICIENT

Data Carpentry Workshop

August 19 - 22, 2015, Faido, Switzerland

Organizers: Frank Pennekamp, Owen Petchey, Philippe Saner (University of Zurich)
Instructors: Karthik Ram, Berkeley (Institute for Data Science) François Michonneau (University of Florida)

Data Carpentry workshops are for any researcher who has data they want to analyze, and no prior computational experience is required. This hands-on workshop teaches basic concepts, skills and tools for working more effectively with data. We will cover data organization in spreadsheets, data cleaning, the command line, and R for data analysis and visualization using examples from biology. Participants should bring their laptops and plan to participate actively. By the end of the workshop learners should be able to more effectively manage and analyze data and be able to apply the tools and approaches directly to their ongoing research.

Data Carpentry's aim is to teach researchers basic concepts, skills, and tools for working with data so that they can get more done in less time, and with less pain.

Preliminary schedule:

Day	Topic
Day 1 morning:	Data organization in spreadsheets and data cleaning.
Day 1 afternoon:	Introduction to databases, combining and querying data using SQL
Day 2 morning:	Introduction to R
Day 2 afternoon:	Data analysis and visualization in R
Day 3 morning:	Version control with Git (9am -12 pm, and 1-2pm)
Day 3 afternoon:	Working with science application programming interfaces (APIs)
Day 4: morning:	Excursion in the area

Day	Topic
Day 4: afternoon:	Departure

Registration

Registration for the workshop will open shortly.