NOTE – All materials provided here are PRELIMINARY

DAY 1 - Monday 01 August 2016

Main tutors: Louise Bezuidenhout, Stefano Cozzini, Allegra Via

Time Activity Responsible

09:00-09:15 Introduction Ivan Girotto

09:15–10:15 [Open Science](https://drive.google.com/open?id=0BwrbhKPFSvBmS3ktNUdVaWpLczA) Louise Bezuidenhout

10:15–11:45 [The Unix Shell](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Allegra Via and Stefano Cozzini

11:45-12:00 Coffee break

12:00-13:00 [The Unix shell](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Allegra Via and Stefano Cozzini

13:00–14:00 Lunch

14:00–15:30 [The Unix Shell](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Allegra Via and Stefano Cozzini

15:30–16:00 Coffee break

16:00–18:00 [Version Control with Git](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Stefano Cozzini and Allegra Via

DAY 2 - Tuesday 02 August 2016

Main Tutor: Vincenza Colonna, Gail Clement

Time Activity Responsible

09.00–10.30 [Version Control with Git](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Stefano Cozzini and Allegra Via

10.30–11.00 Coffee break

11.00–13.00 [Version Control with Git](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Stefano Cozzini and Allegra Via

13.00–14.00 Lunch

14.00–15.30 [Programming with R](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/)  Vincenza Colonna

15.30–16.00 Coffee break

16.00–18.00 [Programming with R](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Vincenza Colonna

20:00-21:00 [Author Carpentry](https://www.authorea.com/users/92046/articles/119184/_show_article?access_token=DmeiElTwId899DaF_J6mBw) Gail Clement

DAY 3 - Wednesday 03 August 2016

Main Tutors: Vincenza Colonna, Giuseppe Profiti

Time Activity Responsible

09:00-10:00 [Open Science](https://drive.google.com/open?id=0BwrbhKPFSvBmS3ktNUdVaWpLczA) Louise Bezuidenhout

10:00-10:15 Break

10:15–11.45 [Programming with R](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Vincenza Colonna

11:45–12.00 Coffee break

12.00–13.00 [Programming with R](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Vincenza Colonna

13.00–14.00 Lunch

14.00–15.30 [Using Databases and SQL](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Giuseppe Profiti

15.30–16.00 Coffee break

16.00–18.00 Usi[ng Databases and SQL](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Giuseppe Profiti

DAY 4 - Thursday 04 August 2016

Main Tutor: Giuseppe Profiti

Time Activity Responsible

09.00–10.30 [Using Databases and SQL](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Giuseppe Profiti

10.30–11.00 Coffee break

11.00–13.00 [Using Databases and SQL](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Giuseppe Profiti

13.00–14.00 Lunch

14.00–15.30 [Using Databases and SQL](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Giuseppe Profiti

15.30–16.00 Coffee break

16.00–17.00 [Using Databases and SQL](https://allegravia.github.io/codata-rda-vanilla-trieste-swcarpentry/) Giuseppe Profiti

20:00-21:00 [Author Carpentry](https://www.authorea.com/users/92046/articles/119184/_show_article?access_token=DmeiElTwId899DaF_J6mBw) Gail Clement

DAY 5 - Friday 05 August 2016

Main Tutor: Kevin Ashley

Time Activity Responsible

09.00–10.30 Research Data Management Kevin Ashley

10.30–11.00 Coffee break

11.00–13.00 Research Data Management Kevin Ashley

13.00–14.00 Lunch

14.00–15.30 Research Data Management Kevin Ashley

15.30–16.00 Coffee break

16.00–18.00 Research Data Management Kevin Ashley

DAY 6 - Saturday 06 August 2016

Main Tutor: Jan Aerts

Time Activity Responsible

09.00–10.30 [Principles and examples in](https://drive.google.com/open?id=0BwrbhKPFSvBmdTVSLVJHSzVoSk0)

[visual data analysis: why,](https://drive.google.com/open?id=0BwrbhKPFSvBmdTVSLVJHSzVoSk0)

[what and how?](https://drive.google.com/open?id=0BwrbhKPFSvBmdTVSLVJHSzVoSk0)  Jan Aerts

10.30–11.00 Coffee break

11.00–13.00 [Principles and examples in](https://drive.google.com/open?id=0BwrbhKPFSvBmdTVSLVJHSzVoSk0)

[visual data analysis: why,](https://drive.google.com/open?id=0BwrbhKPFSvBmdTVSLVJHSzVoSk0)

[what and how?](https://drive.google.com/open?id=0BwrbhKPFSvBmdTVSLVJHSzVoSk0)  Jan Aerts

13.00–14.00 Lunch

14.00–15.30 [Exercises in visual design](https://drive.google.com/open?id=0BwrbhKPFSvBmWndUVV9xZlo1M3c) Jan Aerts

15.30–16.00 Coffee break

16.00–18.00 [Exercises in visual design](https://drive.google.com/open?id=0BwrbhKPFSvBmWndUVV9xZlo1M3c) Jan Aerts

DAY 7 – Sunday 07 August 2016

BREAK

DAY 8 - Monday 08 August 2016

Main Tutor: Colin Gillespie, Andy South, Gail Clement, John Hammersley

Time Activity Responsible

09.00–10.30 [Grammar of graphics](https://github.com/rcourses/codataVis) Colin Gillespie and Andy South

10.30–11.00 Coffee break

11.00–13.00 [Grammar of graphics](https://github.com/rcourses/codataVis) Colin Gillespie and Andy South

13.00–14.00 Lunch

14.00–15.30 [Advanced ggplot2 and](https://github.com/rcourses/codataVis)

[web visualisation](https://github.com/rcourses/codataVis) Colin Gillespie and Andy South

15.30–16.00 Coffee break

16.00–18.00 [Advanced ggplot2 and](https://github.com/rcourses/codataVis)

[web visualisation](https://github.com/rcourses/codataVis) Colin Gillespie and Andy South

20:00-21:00 [Author Carpentry](https://www.authorea.com/users/92046/articles/119184/_show_article?access_token=DmeiElTwId899DaF_J6mBw) Gail Clement and John Hammersley

DAY 9 - Tuesday 09 August 2016

Main Tutor: Ekpe Okorafor

Time Activity Responsible

09.00–10.30 Machine Learning & Recommendation Ekpe Okorafor

10.30–11.00 Coffee break

11.00–13.00 Recommendation Systems in R Ekpe Okorafor

13.00–14.00 Lunch

14.00–15.30 Recommendation Systems in R (Lab) Ekpe Okorafor

15.30–16.00 Coffee break

16.00–18.00 Recommendation Systems in R (Lab) Ekpe Okorafor

DAY 10 - Wednesday 10 August 2016

Main Tutor: Roger Barlow

Time Activity Responsible

09.00–10.30 Neural Networks –

principles, problems,

and R implementation Roger Barlow

10.30–11.00 Coffee break

11.00–13.00 Neural Networks(\*) Roger Barlow

13.00–14.00 Lunch

14.00–15.30 Neural Networks(\*) Roger Barlow

15.30–16.00 Coffee break

16.00–18.00 Neural Networks(\*) Roger Barlow

20:00-21:00 [Author Carpentry](https://www.authorea.com/users/92046/articles/119184/_show_article?access_token=DmeiElTwId899DaF_J6mBw) Gail Clement

DAY 11 - Thursday 11 August 2016

Main Tutor: Roger Barlow, Rob Quick

Time Activity Responsible

09.00–10.30 Kohonen Networks Roger Barlow

10.30–11.00 Coffee break

11.00–13.00 Kohonen Networks (lab) Roger Barlow

13.00–14.00 Lunch

14:00-14:30 Lecture – The Landscape

of Research Computing Rob Quick

14:30-15:15 Exercise – Creating

Necessary Accounts and

UNIX Command Line

Refresher Rob Quick

15:15-15:45 Break

15:45-16:30 Lecture – Profiling your

Application and Choosing

Computing Resources

plus an introduction to

HTCondor Rob Quick

16:30-18:00 Exercise – Single and

Batch Submission with

Condor Rob Quick

DAY 12 - Friday 12 August 2016

Main Tutor Rob Quick, Hugh Shanahan

09:00-09:30 Lecture – High Performance

and High Throughput

Workflows and Distributed

Environments Rob Quick

09:30-10:45 Exercise – Accessing

Distributed Resources

on the Open Science Grid Rob Quick

10:45-11:15 Break

11:15-12:00 Lecture – Workflows

with Directed Acyclic Graphs

(DAGs) Rob Quick

12:00-13:00 Exercise – DAGMAN Rob Quick

13:00-14:00 Lunch

14:00-14:30 Lecture – Introduction

to Cloud Environments Rob Quick

14:30-15:00 Break

15:00-16:00 Exercise – Creating a VM

with Openstack on

Jetstream Rob Quick

16:00-17:00 Open Science Hugh Shanahan