R for physical scientists

R is a freely available, open source programming language for scientific data analysis, statistics and visualisation. It has a vibrant community, and is one of the fastest growing programming languages. R is a powerful alternative to MATLAB for researchers in physics and chemistry.

Aim of the course: To get you up and running with using R for typical data analysis and plotting tasks. At the end of this short course you should be confident with importing data from common formats, organising and manipulating data, and visualisation.

Target group: Graduate students in science and engineering who are interested in, learning to write simple programs to really speed up routine data analysis, making better graphs, thinking about old problems in new ways, learning a versatile programming language, and so on!

Apply by contacting Delphine, at the latest by **Sep 16th**:
delphine.lebrun@angstrom.uu.se

Schedule and content

Topics: Basic R (objects, functions, etc), importing data (e.g., from Excel, plain text), making plots (`ggplot2`), manipulating data (incl. the `dplyr` package), writing readable code (`magrittr`), reporting (LaTeX support, R Markdown) and more!

Mon 19th	Tue 20th	Wed 21th	Thu 22nd
Mellanrummet		Beurlingrummet	Mellanrummet
14:00–17:00	14:00–17:00	14:00–17:00	14:00–18:00

This course is organised by Delphine Lebrun, Taha Ahmed and Matt Lacey (Dept of Engineering Sciences and Dept of Chemistry–Ångström).

Header art adapted from Paul Butler, Facebook, 2010. “Visualising friendships”.
Butler used R to visualise the dataset.

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