SIDR Summer School about Robust statistics and visualization 2018

As part of the SIDR strategic initiative about raising the statistical and methodological competence an annual summer school is arranged. The 2018 Summer School will focus on robust statistics and visualization.

The 2017 summer school was based on the reproducibility crisis where many studies have not been able to replicate. Some solutions were investigated like meta-analysis, open science, publication of data and code and pre-registrations. The 2018 summer school continues in that tradition with another solution, the use of robust statistics. Robust statistics is a name for a type of tests that are less sensitive to violation of different assumptions about data, e.g. normal distribution, and outliers in the data.

Visualization is one way to get to know the data better. By doing so, it is easier to see which type of tests that are most appropriate to use. The visualization in the summer school will focus on three major areas:

1. Exploratory visualization to get to know the data
2. Visualization of assumptions and variations between choices of analyses
3. Creating figures to articles

The robust statistics and visualization will be done in the software R and R packages (e.g., Robustbase for robust statistics and ggplot for visualization).

Participants will be members of the Swedish Institute for Disability Research and/or Linnaeus Center for Hearing and Deafness who are doing their PhD, their post-doc or senior researchers. Other participants can participate too, but they will have to pay for their food and lodging. Pre-requisites for participation is basic statistical knowledge (you should at least know regression analysis and ANOVA). Experience of using R is not needed, but in that case you get some material to read and try before the summer school. The summer school will start with a crash course in R.

Responsible for the summer school is Henrik Danielsson and Örjan Dahlström, Linnaeus Centre for Hearing and Deafness, Swedish institute for disability research, Institution of Behavioural Sciences and Learning, Linköping University, Sweden. E-mail: henrik.danielsson@liu.se

The summer school will be held 11–15th of June 2018. Location to be determined (will be relatively close to Linköping).

Are you interested in this course? Please e-mail;
Your current position, your institution and University, your research area and your relation to the Swedish Institute for Disability Research to Maria Hugo-Lindén maria.hugo-linden@liu.se no later than the 4th of April 2018.

Welcome to register!

SIDR
Through Henrik Danielsson and Örjan Dahlström