Scientific Visualization with the ggplot Package in R

Objective
The participants will be introduced to the general principles of scientific visualization, and learn visualization techniques using the ggplot package.

Description
The online course consists of the following major modules:
1. Principles of scientific visualization: data types, visuals, short introduction to human visual physiology and psychology
2. Introduction to ggplot: the “grammar of graphics” approach, data -> visual mappings
3. Scientific plots: scatterplots, bar charts, histograms, densities. Visualising multivariate datasets with faceting

Methodology
Interactive lecture with numerous small hands-on exercises using the RStudio programming environment.

Conditions
Basic familiarity with the R programming language is required.

Organizational Information

<table>
<thead>
<tr>
<th>Language</th>
<th>English</th>
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<tbody>
<tr>
<td>Target group</td>
<td>Doctoral Candidates at all stages and Postdocs from all faculties</td>
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<tr>
<td>Date</td>
<td>Wednesday, 14 April 2021, 9:00 – 13:00</td>
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<td>Registration</td>
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