

MSc course Research Skills – course overview

	Monday	Tuesday	Wednesday	Thursday	Friday
	Science and the scientific method Finding a question Previous work Novelty	On the shoulder of giants: dealing with the scientific literature Searching, Literat. DB, Jabref etc. Morning practicals	Question rev. Intro to statistics Regression, NHST Design of Experiments Planning Statistical power	Field day Data collection	Scientific Ethics and Culture Organizing your Research Misconduct, good scientific practice, reproducibility, scripting, archiving
	Monday	Tuesday	Wednesday	Thursday	Friday
	Introduction to Graphics in R <i>Morning practical: graphics with R</i> <i>Afternoon exercise: visual data analysis</i>	LaTeX <i>Morning practical: LaTeX</i> <i>Afternoon exercise: your document in LaTeX</i>	Regression analysis in R <i>Afternoon tutorial: help with analyzing your data in R</i>	Writing 1 Article types, Publication Process Structure of a research article	Practice day Writing Data analysis
	Monday	Tuesday	Wednesday	Thursday	Friday
	Writing 2 Style Paragraph structures Choice of wording and common mistakes Logic	Communication Ends and means, Social media intercultural communication Poster What makes a good poster	Reviewing Peer review Presentation Tips Conference presentation Choosing a career in science	Presentation	Practice day Writing

Morning schedule: unless otherwise announced, lectures start at 9:00 s.t. and end before 12:30. CIP room DE_0.135 is reserved for us throughout the course and can be used for exercises.

Afternoon schedule: By default, assume that afternoons are reserved for unsupervised homework, i.e. you work in your own time and at your place of choice. However, as 1) you are working in groups, 2) we have computers and software here, it is highly recommended to work at the university if you can manage. **Exceptions** where we have supervised exercises in the afternoon marked in the timetable, notably at the beginning of week 2. Please block the afternoons for those, these practicals cover subjects that are essential for the final paper. Also, you should block Thursday of the first week for your group data collection.

The **main course homepage**, which contains **course material and further links** is here <http://florianhartig.github.io/ResearchSkills/>. **Lecture notes and assignments** will be posted on GRIPS, the online system of the university.

All other organizational issues will be explained on the first day of the course. See you there! / Florian Hartig