

## MSc course Research Skills – course overview

	Monday	Tuesday	Wednesday	Thursday	Friday
	<b>Science and the scientific method</b>  <b>Finding a question</b> Previous work Novelty  <b>Lecture starts live at 10.00 am</b>	<b>On the shoulder of giants: dealing with the scientific literature</b>  Practicals: Searching, Literat. DB, Jabref etc.	<b>Question rev.</b>  <b>Intro to statistics</b> Regression, NHST  <b>Design of Experiments</b> Planning Statistical power  <b>Expect frequent interactions in the afternoon</b>	<b>Field day</b> <b>Data collection</b>	<b>Scientific Ethics and Culture</b>  <b>Organizing your Research</b>  Misconduct, good scientific practice, reproducibility, scripting, archiving
	Monday	Tuesday	Wednesday	Thursday	Friday
	<b>Introduction to Graphics in R</b>  <i>Morning practical: graphics with R</i>  <i>Afternoon exercise: visual data analysis</i>  <b>Expect frequent interactions in the afternoon</b>	<b>LaTeX</b>  <i>Morning practical: LaTeX</i>  <i>Afternoon exercise: your document in LaTeX</i>  <b>Expect frequent interactions in the afternoon</b>	<b>Regression analysis in R</b>  <i>Afternoon tutorial: help with analyzing your data in R</i>  <b>Expect frequent interactions in the afternoon</b>	<b>Writing 1</b>  Article types, Publication Process  <b>Structure of a research article</b>	<b>Practice day</b> <b>Writing</b> <b>Data analysis</b>
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	<b>Writing 2</b>  Style Paragraph structures Choice of wording and common mistakes  <b>Logic</b>  <b>Expect longer interaction when discussing your paper drafts</b>	<b>Communication</b>  Ends and means, Social media intercultural communication  <b>Poster</b>  What makes a good poster	<b>Reviewing</b>  Peer review  <b>Presentation Tips</b>  Conference presentation  <b>Choosing a career in science</b>	<b>Presentation</b>  <b>Expect the whole day blocked for final presentations</b>	<b>Practice day</b> <b>Writing</b>

**Schedule:** unless otherwise announced (see above) lectures for each day will be available pre-recorded on GRIPS, and you should watch them in the morning. We will then meet at 12.00 – 14.00 (or shorter, depending on how long it takes) to discuss the lecture, problems with the assignments, and the tasks for the day. You then have the afternoon to work on your assignments in groups, and you can ask questions during this time via Slack (preferred), Email or Zoom.

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