



Beyond Null Hypothesis Testing (S66)

13 - 15 April 2026

Course Director: Rebecca Kuiper

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Day	Time	Type	Description	Location
Monday	09:00 – 12:00	Mix of lecture and small hands-on exercises (Anne Scheel)	Introduction to the epistemology of hypothesis testing; principles of null-hypothesis significance testing (NHST); common problems with NHST in practice (publication bias, questionable research practices, misconceptions)	Sjoerd Groenman building Room C028
	12:00 – 13:00	Lunch		
	13:00 – 16:30	Mix of lecture and computer lab (Anne Scheel)	Open-science practices; equivalence testing for improved inferences with NHST	

Day	Time	Type	Description	Location
Tuesday	09:00 – 12:00	Lecture + hands-on parts (Rebecca Kuiper)	Introduction to informative hypotheses, model selection using information criteria (i.e., AIC and its generalization called the GORIC), and Bayesian model selection (BMS). This includes interpreting (ratios of) GORIC weights, Bayes factors, and posterior model probabilities.	Sjoerd Groenman building Room C028
	12:00 – 13:00	Lunch		
	13:00 – 16:30	Lecture + Computer lab (Rebecca Kuiper)	Continuation of lecture on the topics above. Work on exercises and possibly applying methods to own data.	

Day	Time	Type	Description	Location
Wednesday	09:00 – 12:00	Lecture + hands-on parts (Rebecca Kuiper)	Updating a hypothesis and combining evidence from multiple studies. Notably, the evaluation of informative hypotheses using model selection, discussed on Day 2 (Tuesday), plays an important role here.	Sjoerd Groenman building Room C028
	12:00 – 13:00	Lunch		
	13:00 – 16:30	Lecture + Computer lab (Rebecca Kuiper)	Continuation of lecture on the topics above. Work on exercises and possibly applying methods to own data..	

Breaks

- ✓ 8.30am coffee & tea
- ✓ 10.30am coffee & tea
- ✓ 12.00-13.00 (or an hour around that time) lunch
- ✓ 14.30 soda drinks

Questions

- If you have any course-related questions, please let us know (MS.SummerSchool@uu.nl).
- In case of other questions (e.g., related to housing), contact **Utrecht Summer School Organization** (info@utrechtsummerschool.nl or +31 (0) 30 253 4400).

For information about the Social Programme, please visit the [Utrecht Summer School website!](#)