



Open Science Hypothesis Testing (S66)

21 - 23 August 2023

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)	Ruppert building , Room 005
	12:00 – 13:00	Lunch	Educatorium restaurant	
	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, Bayesian model selection (BMS), and model selection using information criteria (i.e., AIC and its generalization called the GORIC). This includes interpreting Bayes factors, posterior model probabilities, and GORIC weights.	Ruppert building , Room 005
	12:00 – 13:00	Lunch	Educatorium restaurant	
	13:00 – 16:00	Computer lab (Rebecca Kuiper)	Work on exercises and ask questions.	

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.	Ruppert building , Room 005
	12:00 – 13:00	Lunch	Educatorium restaurant	
	13:00 – 16:00	Computer lab (Rebecca Kuiper)	Work on exercises and ask questions.	

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