

# summerschool UTRECHT

## Data Science: Multiple imputation in practice (S28)

08-11 July 2024

Course Director: *Dr. Gerko Vink*

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Hybrid course

Please note that the schedule is in Central European Summer Time

Day	Time	Type	Description	Location
Monday	09:00-10.30	Lecture	Ad-hoc methods	<a href="#">Victor J. Koningsberger building</a> , room ATLAS  or Teams
	-	<i>Coffee/Tea Break</i>		
	10.45-11.45	Computer Lab	Ad-hoc methods with mice in R	
	11.45-12.15	Plenary discussion	Students and teachers discuss and present their solutions to the computer lab.	
	-	<i>Lunch Break</i>	In <a href="#">Educatorium</a>	
	13.15-14.30	Lecture	The theory of Multiple Imputation Univariate imputation	
	-	<i>Coffee/Tea Break</i>		
	14.45-15.45	Computer Lab	Univariate imputation with mice in R	
	15.45-16.00	Plenary discussion	Students and teachers discuss and present their solutions to the computer lab.	

Tuesday	09:00-10.30	Lecture	Multivariate imputation: - Multiple imputation - Diagnostics for imputation	<a href="#">Victor J. Koningsberger building</a> , room ATLAS  or Teams
	-	<i>Coffee/Tea Break</i>		
	10.45-11.45	Computer Lab	Multivariate imputation in R	
	11.45-12.15	Plenary discussion	Students and teachers discuss and present their solutions to the computer lab.	
	-	<i>Lunch Break</i>	In <a href="#">Educatorium</a>	
	13.15-14.30	Lecture	Modelling choices and derived variables	
	-	<i>Coffee/Tea Break</i>		
	14.45-15.45	Computer Lab	Multiple imputation of derived variables	
	15.45-16.00	Plenary discussion	Students and teachers discuss and present their solutions to the computer lab.	

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

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Day	Time	Type	Description	Location
Wednesday	09:00-10.30	Lecture	Multiple imputation of : - Non-normal data - Longitudinal data	<a href="#">Victor J. Koningsberger building,</a> room ATLAS  or Teams
	-	<i>Coffee/Tea Break</i>		
	10.45-11.45	Computer Lab	Combining inferences	
	11.45-12.15	Plenary discussion	Students and teachers discuss and present their solutions to the computer lab.	
	-	<i>Lunch Break</i>	In <a href="#">Educatorium</a>	
	13.15-14.30	Lecture	Sensitivity analysis and reporting	
	-	<i>Coffee/Tea Break</i>		
	14.45-15.45	Computer Lab	Sensitivity analysis with mice in R	
15.45-16.00	Plenary discussion	Students and teachers discuss and present their solutions to the computer lab.		

Thursday	09:00-10.30	Lecture	Advanced topics	<a href="#">Ruppert building,</a> room Paars  or Teams
	-	<i>Coffee/Tea Break</i>		
	10.45-11.45	Computer Lab	Data synthesis and custom imputation models	
	11.45-12.15	Plenary discussion	Students and teachers discuss and present their solutions to the computer lab.	
	-	<i>Lunch Break</i>	In <a href="#">Educatorium</a>	
	13.15-14.30	Lecture	Capita selecta	
	-	<i>Coffee/Tea Break</i>		
	14.45-15.45	Computer Lab	Get advice and/or support on solving your own missing data problem.	
15.45-16.00	Plenary discussion	Students and teachers discuss real life missing data problems		