

Program Advanced MSc course Environmental Epidemiology June 21 – July 2, 2021: Week 1

Date	Time	Topic	Type
Mon June 21	10.00-10.45	Welcome and course intro <ul style="list-style-type: none"> • Introduction • The key concepts of exposure assessment and air pollution epidemiology • Preparation discussion assignment 	Online meeting Self-study
Tue June 22	10.00-11.00	<ul style="list-style-type: none"> • Discussion of the example paper • Characteristics of Environmental Epidemiology • Case study reading & evaluation 	Online active class Self-study
Wed June 23		<ul style="list-style-type: none"> • Introduction time series studies • Principles and main issues of time series studies • Shape of exposure-response analysis • Time series analysis for outdoor air pollution and mortality, including shape of exposure-response (computer exercise in R) 	Self-study
Thu June 24	13.00-14.00	<ul style="list-style-type: none"> • Panel studies • Analysis of individual level panel studies (computer exercise) • Case-crossover design (reading) • Intervention studies • Discussion of case-crossover design 	Self-study Online active class
Fri June 25		<ul style="list-style-type: none"> • Introduction spatial epidemiology • Principles of spatial epidemiology • Ecological studies 	Self-study

Program Advanced MSc course Environmental Epidemiology June 21 – July 2, 2021: Week 2

Date	Time	Topic	Type
Mon June 28	15.00.16.00	<ul style="list-style-type: none"> • Life table analysis • Interpretation of Mortality impacts • Reading: Hystad et al. Residential greenness and birth outcomes. • Urban green, air pollution and noise: discussion of the Hystad paper 	Self-study Online active class
Tue June 29		<ul style="list-style-type: none"> • Introduction exposure assessment • Exposure assessment • Exposure assessment by land-use regression 	Self-study
Wed July 30	9:00-10:00 10:00-11:00	<ul style="list-style-type: none"> • Covid-19 and air pollution • Livestock farming and corona • Introduction measurement error • Measurement error in time series and cohort studies • New developments: selected reading for active class on Thursday. Groups of about 3 students prepare 1 of the papers and present it (10 minutes) to the others during the active class. 	Webinar Webinar Self-study
Thu July 1	12:45-15:00	<ul style="list-style-type: none"> • Introduction to the Exposome concept • Group presentations - New developments 	Self-study Online meeting
Fri July 2		<ul style="list-style-type: none"> • Final assignment Deadline Friday July 2, 23.59 CEST • Course evaluation & Farewells 	Self-study