Preliminary Schedule: Causal inference in environmental and social science – SAGM002

	Time	Day 1:	Day 2:	Day 3:	Day 4:	Day 5:
		May 30 2022	May 31 2022	June 01 2022	June 02 2022	June 03 2022
Lectures	10-12h	Greetings,	(Semi) Natural	Simulated	Instruments &	Cutting edges:
		Introduction to	Experiments:	Counterfactuals:	Interruptions:	Structural equation
		Causal inference,	Difference-in-	matching methods,	instrumental	modeling, Bayesian
		and randomized	differences, two-way	synthetic controls,	variables, regression	inference and
		controlled trials	fixed effects		discontinuity design	machine learning
						techniques
Seminars	13-15h	Replication:	Replications:	Replications:	Replications:	Student presentations
		Jayachandran, S. et al.	Card, D., & Krueger,	LaLonde, R. J. (1986).	Abou-Chadi, T., &	of own project ideas
		(2017). Cash for	A. B. (1994).	Evaluating the	Krause, W. (2020).	
		carbon: A	Minimum Wages and	econometric	The causal effect of	
		randomized trial of	Employment: A Case	evaluations of	radical right success	
		payments for	Study of the Fast-	training programs	on mainstream	
		ecosystem services	Food Industry in	with experimental	parties' policy	
		to reduce	New Jersey and	data. <i>AER</i> , 604-620.	positions: A	
		deforestation.	Pennsylvania. AER,		regression	
		Science, 357(6348),	84(4), 772-793.		discontinuity	
		267-273.			approach. BJPS,	
					50(3), 829-847.	
Consultations	15-16h	./.	./.	./.	./.	./.

Recommended preparatory reading:

- Keele, L. (2015). The statistics of causal inference: A view from political methodology. *Political Analysis*, 23(3), 313-335.
- Plantinga, A. J. (2021). Recent Advances in Empirical Land-Use Modeling. *Annual Review of Resource Economics*, 13, 1-15.
- Cinelli, C. et al. (2022). A Crash Course in Good and Bad Controls. Technical Report R-493.