

URB-404 Computational Methods in Urban Studies (CMUS)*Program of the semester*

Week	Title	Theory & concept(s)	Method(s) & demo	Teacher(s)
1 8 Sep.	<u>Intro</u> : What is CMUS ?	Critical urban studies, social engineering, reflexive quantification	Introduction to R	AG + CR
2 15 Sep.	<u>Practices</u> : (social) Space oddity	Social space, the system of automobility	Geometric data analysis, <i>bundle of practices</i>	AG
3 22 Sep.	<i>Bank holidays</i>			
4 29 Sep.	<u>Practices</u> : A Goofy motor mania	Theory of social practice, habitus, socialization, petromasculinity	Latent variable analysis, structural equation modeling, <i>environmental care</i>	AG
5 6 Oct.	<u>Space/Territory</u> : “You can’t build your way out of congestion”	Contentious politics, planetary urbanization, motonormativity	Web scrapping, automated transcription, content analysis, <i>highway infrastructure</i>	AG
6 13 Oct.	Atelier 1	Research question.		AG (online) + CR (onsite)
7 27 Oct.	Midterm presentation	Research question.		AG + CR
8 3 Nov.	<u>Space/Territory</u> : A most wanted need for speed	Dromology, social acceleration/deceleration, mobility justice	GPS data analysis	AG + CR
9 10 Nov.	<u>Systems</u> : Complexity and networks	Complex systems	Social network analysis	CR
10 17 Nov.	Atelier 2	Data & methods.		AG (online) + CR (onsite)
11 24 Nov.	<u>Systems</u> : Prospective planning	Carbon footprint, radical monopoly	Scenario design & analysis	CR
12 1 Déc.	<u>Outro</u> : Sustainability transition	Science and technology studies (STS), sociotechnical transitions	Time series analysis	CR
13 8 Déc.	Atelier 3	Results & discussion.		AG (online) + CR (onsite)
14 15 Déc.	End-of-term presentation	Data & methods + results & discussion.		AG