

Table S3: Pairwise Correlation Analysis for the U.S. Counties

Pairwise correlation coefficients are obtained by averaging all correlation coefficients from each time step in the

	Temperature	Relative Humidity	Population Density	Percentage over 65	Gini	Se-factor	No. of ICU beds per capita	M50_index
Temperature	1.00	0.17	0.01	-0.05	0.34	0.36	0.11	0.34
Relative Humidity	0.17	1.00	-0.06	0.08	0.05	0.02	0.00	0.07
Population Density	0.01	-0.06	1.00	-0.11	0.23	0.07	0.07	-0.19
Percentage over 65	-0.05	0.08	-0.11	1.00	0.02	0.14	-0.04	-0.03
Gini	0.34	0.05	0.23	0.02	1.00	0.53	0.37	0.15
Socio-economic factor	0.36	0.02	0.07	0.14	0.53	1.00	0.21	0.32
No. of ICU beds per capita	0.11	0.00	0.07	-0.04	0.37	0.21	1.00	0.18
M50_index	0.34	0.07	-0.19	-0.03	0.15	0.32	0.18	1.00
Home-stay minutes	0.00	0.10	0.11	-0.18	-0.17	-0.41	-0.10	-0.37
Latitude	-0.90	-0.20	0.01	0.05	-0.35	-0.34	-0.11	-0.37
Longitude	0.04	0.12	0.10	0.13	0.07	0.00	0.10	-0.08