psd

MASTER'S THESIS PRESENTATION

Predicting French Air Pollution

WHEN
February, 21, 2021
2:00 PM, CST

WHERE
Via ZOOM
ZOOM information will be provided in the email announcement for this seminar.

James Keane, MS candidate

The forces that generate environmental phenomena are many and complex. Common geo-statistical approaches to predicting such phenomena involve regressing on related maps of land-use regressors, and interpolating observed samples across space and time. In this paper, we review the method of unbiased, linear interpolation known as kriging, and apply it to a dataset of French PM2.5 readings in 2020. We harness the spatio-temporal dependencies of the pollution process with ordinary and residual kriging methods to interpolate readings across the whole of Metropolitan France.

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