

# Cross Validation for the log Gaussian Cox Process

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**Thursday 19 Mar 2026 | 14:30-15:30**

**Room BENVENUTI**

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The Log Gaussian Cox process (LGCP) is arguably one of the most used models to analyze spatial point pattern (SPP) data due to its flexibility to handle heterogeneity in the underlying latent process. The literature on fitting such models is relatively mature both under a frequentist and Bayesian framework, however practical tools for model assessment and comparison have not seen the same development. This work provides, under a Bayesian framework, a theoretically justified and more importantly fast, scalable and practical solution to some of these problems using Cross Validation.



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