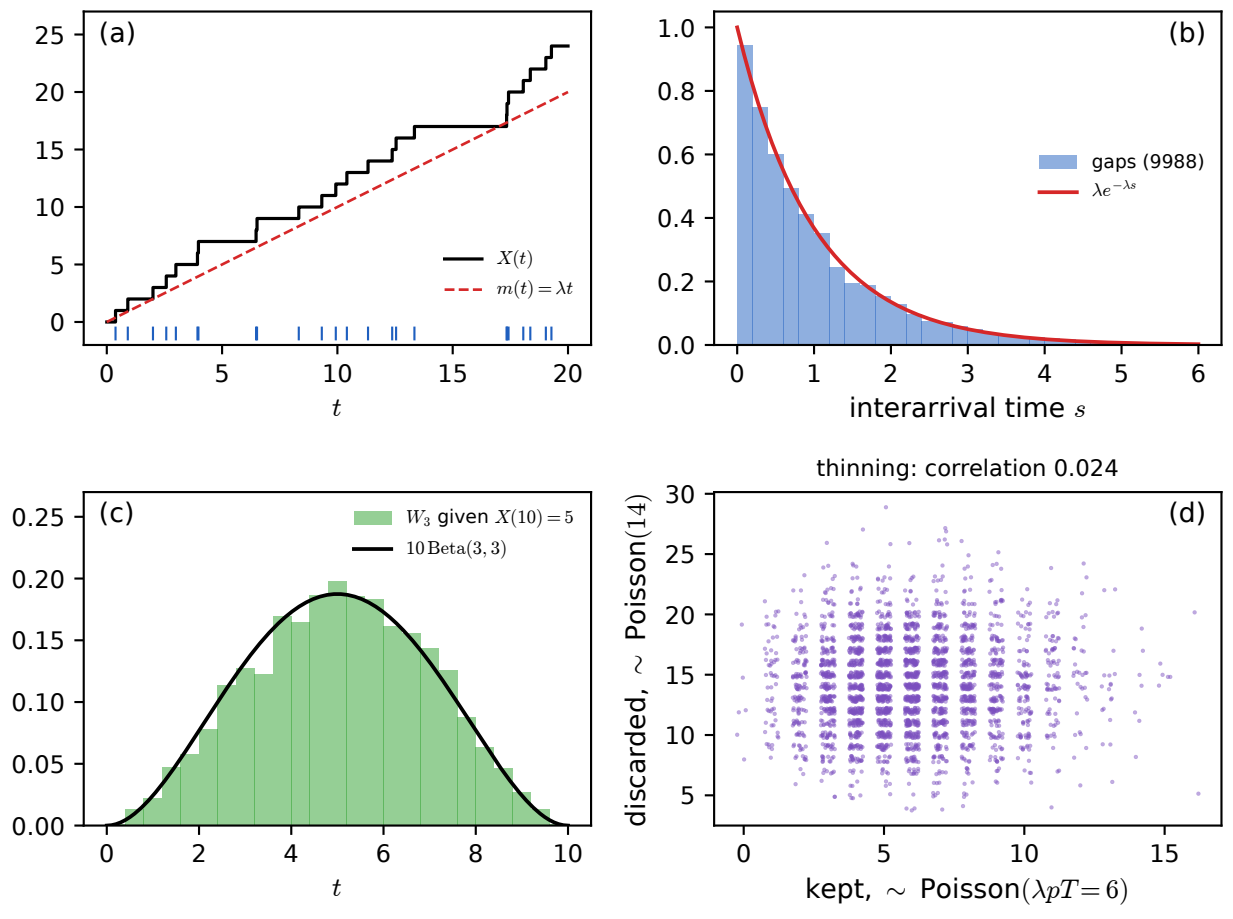

(a)
$X(t)$
$m(t) = \lambda t$
t
(b)
gaps (9988)
$\lambda e^{-\lambda s}$
interarrival time s
(c)
W_3 given $X(10) = 5$
$10\,\mathrm{Beta}(3, 3)$
t
thinning: correlation 0.024
(d)
discarded, $\sim$ Poisson(14)
kept, $\sim$ Poisson($\lambda pT = 6$)