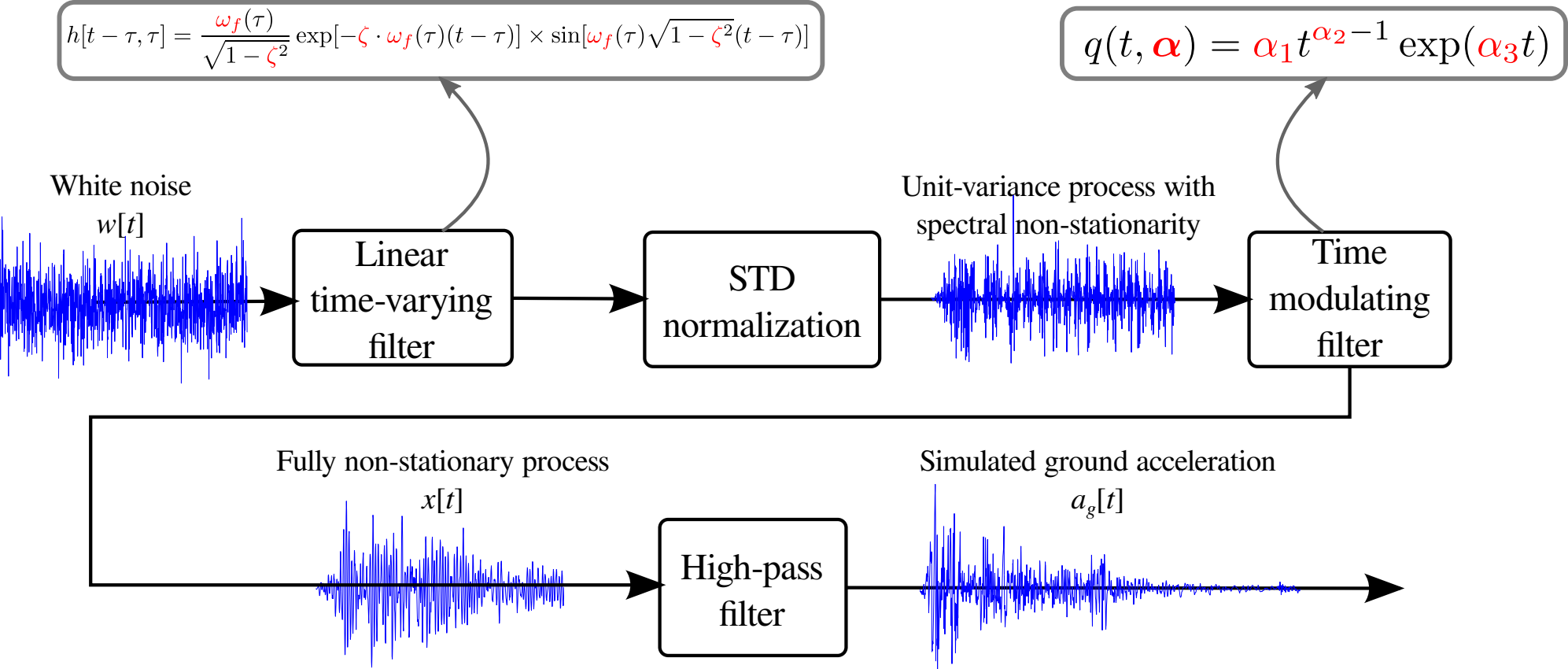
$h[t-\tau,\tau] = \frac{\omega_f(\tau)}{\sqrt{1-\zeta^2}} \exp[-\zeta \cdot \omega_f(\tau)(t-\tau)] \times \sin[\omega_f(\tau)\sqrt{1-\zeta^2}(t-\tau)]$
$q(t, \boldsymbol{\alpha}) = \alpha_1 t^{\alpha_2 - 1} \exp(\alpha_3 t)$
White noise
$w[t]$
Linear time-varying filter
STD normalization
Unit-variance process with spectral non-stationarity
Time modulating filter
Fully non-stationary process
$x[t]$
High-pass filter
Simulated ground acceleration
$a_g[t]$