$λ\_{h}\left(t\right)= \frac{Sum of Bites at hour\left(t\right) for location (inside or outside)}{Sum of bites for all hours for both locations}$ , [1]

$Φ\_{O}=1- \frac{\sum\_{t}^{}p\_{I}(t)λ\_{I}(t)}{\sum\_{t}^{}\left(\left(1-p\_{I}\left(t\right)\right)λ\_{0}\left(t\right)+p\_{I}(t)λ\_{I}(t)\right)}$ , [2]

$y\_{i}\~D(f\left(η\_{i}\right),θ)$, [3]

$η=Xβ+Zu$, [4]