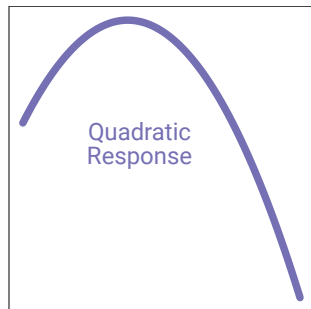


(1) Simulate Species



100 virtual species

Suitability



Quadratic Response

Environment

Presence Probabilities



Probabilities



Saturation β



Modified Probabilities



Observed Presences



(2) Fit SDMs

Observed Presences



Model Presences (SDM)

sdm(**presence** ~ **environment**)



(A)

Predicted Presence Probabilities



Threshold-based (TSS)
conversion to
Presence/Absence



(B)

Predicted Presences



(3) Stack Predictions

(A)

Predicted Probabilities



(B)

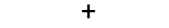
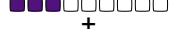
Threshold Prediction



Stack
Species-level
Predictions



n = 100 species



Assemblage-level
Species Richness
Predictions