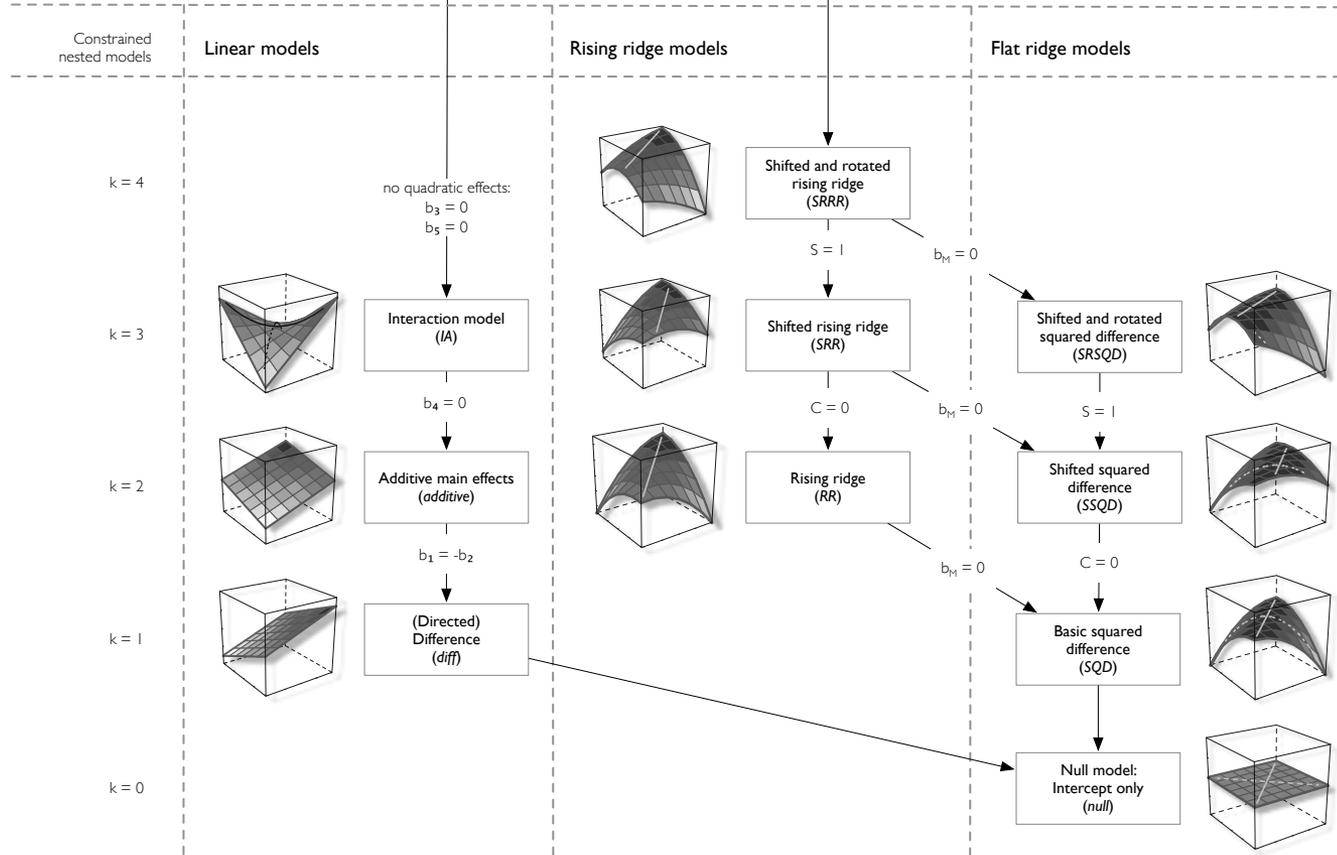


Unconstrained model: $k = 5$

$$Z = b_0 + b_1X + b_2Y + b_3X^2 + b_4XY + b_5Y^2 + e$$

Full polynomial model of second degree (full)



Note. k = number of free parameters, S = scaling factor for one predictor (leads to a rotation of the surface), C = shifted zero point (shifts the ridge away from the numerical line of congruence), b_{M1} = effect of mean level. Models connected by arrows are nested within each other and can be compared via χ^2 difference tests. All models can be compared via AIC, BIC, CFI, or R^2_{adj} .