Supplementary Material: Sex difference in the predictability of mobility

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To determine the fraction of the total variance that is explained by variance in sex, I included sex as a fixed factor in my repeatability analysis and then extracted the variance explained by it. The variation explained by sex was 0.079 [0.001, 0.253].

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| Figure S 1: Frequency histograms of nightly distance travelled (m) by female (n = 127 total observations) and male (n = 108 total observations) Cook Strait giant weta (*Deinacrida rugosa*) on Maud Island, NZ. Total observations are from n = 16 females and n = 17 males. |

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| Figure S 2: Among-individual correlation (r) between mobility behaviour type and behavioural predictability for females (red, n=16) and males (blue, n=17). Points represent individual posterior means and 95% credible intervals. |