



Figure S5. **Statistics computed on sets of 64 remapping simulations using spatial frequency modules.** The same realignment conditions presented in Figure 7a were simulated using frequency modules as opposed to random modules (Methods). The *rnd*, *srnd*, *ernd*, and *zrnd* data are the same sample sets from Figure 7a, as those conditions are equivalent between module types. Data are presented similarly here (bars and error bars show means  $\pm$  s.e.m., Horizontal bars indicate the two-sample K-S test is not significant at  $p > 0.05$ ). These means are used for the module type comparisons in Figure 7b and c. For both ellipticity and rescaling, 16 modules are necessary for realignment to not significantly differ from the incoherent conditions *ernd* and *zrnd*, respectively.