August 31, 2020

Dr. Brad Postle

Reviewing Editor

*eNeuro*

Dear Dr. Postle,

We are submitting a revised version of manuscript eN-RGR-0265-20 (How movement variability constrains locomotor use-dependent learning).

We are grateful for the insightful comments from both reviewers. We believe their feedback has improved our proposed methods and the clarity of our ideas. The major change they inspired is the additional detail we now provide in our pilot data figure. We added stride by stride data for each participant as well as aftereffect predictions for each pilot subject. We also have added a supplemental figure in the body of our responses to reviewers which includes model fits to each of these pilot subjects and the distinct predictions of each model. This figure in particular has given us inspiration of how to format a figure we plan to use in the final manuscript, after data are collected. We believe these additions have helped validate the hypotheses we plan to test.

The submission includes clean and tracked changes copies of the revised manuscript as well as point-by-point responses to the reviews.

We look forward to hearing from you.

Sincerely,

Jonathan Wood, Susanne Morton and Hyosub Kim