Thursday, December 22nd, 2022

To: Editorial Board of *Cortex*

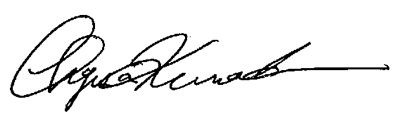
Dear Drs. Guediche and Caffarra,

We very much appreciate your flexibility with our much-delayed resubmission. We have revised and re-submitted our manuscript, CORTEX-D-21-00884 now titled “What we do (not) know about the mechanisms underlying adaptive speech perception: A computational framework and review” for consideration for the special issue *Mapping sound to meaning under challenging conditions: converging findings and open questions across methods*. The manuscript is original, not previously published, and not under concurrent consideration elsewhere.

We are grateful for the constructive reviews. We appreciate that both reviewers saw that there is potentially much to be gained from developing a modeling framework like ours (which we now call **ASP for *adaptive speech perception***). As summarized in your letter, both reviewers pointed to a need to (1) clarify the goals and scope of this manuscript, (2) clarify the take-home points, in particular, whether there exist conditions for which any of the proposed mechanisms can be ruled out, and (3) shorten the manuscript and/or make it more accessible. Finally, R1 pointed out that (4) our presentation of neuroimaging work needs to be better integrated with the rest of the manuscript. In response to these comments, we have substantially revised *all* sections of the paper. We also have conducted additional simulation studies to address reviewers’ questions. These simulation studies are now presented as part of Case Study 2. As a result, the paper has not become shorter—it is still about 75 double-spaced pages of main text—but we hope it is much clearer and more effectively communicates the many insights we believe can be gained from the approach we present. Before we further summarize the changes we have made, we raise a point that we would appreciate your and the reviewers’ feedback on.

As part of our revision process, we have shared versions of the manuscript with students and PIs from our own and other labs. While feedback has been encouraging, several readers shared with us a concern that the paper’s length and its focus on theory and computational models of *behavior* may not meet the needs/interests of the core readership of *Cortex*, and that this might limit the impact of the paper. We would greatly appreciate your candid opinion regarding this matter. We are committed to further improving the paper but also want to make sure that it finds the right home.

Sincerely,





Xin Xie T. Florian Jaeger and Chigusa Kurumada