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Supplemental Material

To create the spatially incoherent conditions, I synthesized separate unimodal 1.1 kHz 810 and 2.2 kHz calls that both had the same, fixed starting phase of 0° and the former had a relative 811 amplitude that was 6 dB less than the latter. The two calls were broadcast using different 812 813 channels in software, the soundcard, and the amplifiers, and they were output through different, spatially separated speakers. Hence, creating the spatially incoherent condition had some 814 potential to introduce one or more stimulus artifacts. Among the potentially salient such artifacts 815 would be the introduction of differences in the relative onset times (and ongoing phases) or the 816 relative amplitudes of the two harmonic. I was unable to detect any such artifacts. Supplemental 817 Figure 1 shows the original, superimposed digital sound files and recordings of the acoustic 818 stimuli in the spatially incoherent conditions. Any differences in onset times, phases, and 819 relative amplitudes between the two harmonics are clearly smaller than what would be 820 experienced by a female moving around in the test arena (see Results and Discussion section of 821 Experiment 2). Hence, the introduction of stimulus artifacts is probably not a viable explanation 822 for the results of the present study. 823

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