Youngmin Park, PhD
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October 13, 2020

ATTN: Search Committee
Center of Mathematical Sciences and Applications
Harvard University
20 Garden Street
Cambridge, MA 02138

Dear Members of the Search Committee,

I am applying for the Postdoctoral Fellowship at the Center of Mathematical Sciences and Applications, Harvard University. I completed a PhD in mathematics at the University of Pittsburgh, advised by G. Bard Ermentrout, and I am now a postdoc at Brandeis University, advised by Thomas G. Fai.

I am an ambitious applied mathematician who positions himself at the forefront of multidisciplinary discoveries including mathematics and biology. At Pittsburgh, I developed my mathematical repertoire by applying dynamical systems theory to reduce the dimensionality of famous neural models, aiding in novel insights into these systems. My research resulted in winning the prestigious Andrew Mellon Predoctoral Fellowship, which is awarded to doctoral students of exceptional promise and ability. I was the first math-bio student at the University of Pittsburgh to receive this award.

As a postdoc at the University of Pennsylvania, I introduced ground-breaking insights and models for data produced by the world's leading auditory labs. As a postdoc at Brandeis, I have continued to develop my abilities as an independent mathematician while contributing to multiple fields including coupled oscillators and molecular motor dynamics.

My publication record demonstrates my ability to perform as an independent researcher in mathematical neuroscience (all recent projects were collaborative but largely independent). I bring to the table a decade's worth of experience in understanding oscillator etrainment and synchrony, and strongly believe that my presence will enhance Harvard's reputation in mathematical biology.

As part of my application I include a curriculum vitae, publication list, and research statement. Please request additional details as needed, and I look forward to our correspondence.

Sincerely, Youngmin Park, PhD