Youngmin Park, PhD
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Hiring Committee
Department of Mathematical Sciences
1615 Stanley Street
New Britain CT 06053

Dear Members of the Hiring Committee,

I am applying for the position of Assistant Professor in Mathematics at the Central Connecticut State University Department of Mathematics. I completed a PhD in mathematics at the University of Pittsburgh under the supervision of G. Bard Ermentrout, and I am now a postdoc at the University of Pennsylvania under the supervision of Maria N. Geffen.

I am an ambitious applied mathematician who positions himself at the forefront of discoveries in both 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. At the University of Pennsylvania, I introduce ground-breaking insights and models for data produced by one of the world's leading auditory labs.

Central Connecticut harbors a wealth of resources to aid in my journey at the interface of mathematics and biology. My work strongly complements the work of existing faculty such as **Krishna Saha**'s extensive work in applied statistics. The future of neuroscience depends on effective data analysis as well as the introduction of mathematicians to the leading problems in neuroscience. My background and ability to communicate with specialists of disparate fields will yield dividends in the form of grants, papers, and new discoveries.

I have written three papers spanning diverse topics from single neurons (coupled oscillators) to the population-level (neural field models) under the supervision of my doctoral advisor. We also published a pedagogical book chapter in computational neuroscience. I maintained collaborations from my masters institution, and published a fourth journal paper in dynamical systems theory. My research resulted in winning the prestigious Andrew Mellon Predoctoral Fellowship at the University of Pittsburgh, which is awarded to doctoral students of exceptional promise and ability. I was the first math-bio student at Pitt to receive this award.

My teaching portfolio boasts four years of teaching at different capacities (lectures, recitations, grading), at different levels (calculus sequence, differential equations, linear algebra, and discrete math), for three terms per year (Spring, Summer, and Fall). My teaching evaluations are consistently strong. As a result of my teaching I was shortlisted for the Elizabeth Baranger teaching award, the most prestigious teaching award at the University of Pittsburgh.

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

Sincerely, Youngmin Park, PhD