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Speaker: Erin McNelis, Western Carolina University

Title: *Discovering mathematics in computational biology*

Abstract: BIO2010, a report published in 2003 by the Committee on Biology Undergraduate Education, identified the need to foster quantitative, computational and mathematical skills in future biologists in order to prepare them for modern research. But just what are the connections between mathematics, computational science, and biology that BIO2010 points to? As mathematicians and computer scientists, we are not typically exposed to much biology, and thus may not know of the rich opportunities for applications in the biological sciences.

This talk will offer a glimpse at a selection of areas where mathematics, modeling, computational science and biology are nicely intertwined, as well as investigate specific examples that utilize some of the computational tools available to students and faculty interested in getting more acquainted with the field of computational biology.