



# NIMBioS

National Institute for Mathematical  
and Biological Synthesis



## NIMBioS Interdisciplinary Seminar

**Dr. Daniel Ryan**  
NIMBioS Postdoctoral Fellow

**3:30 p.m.\*, October 11, 2011**  
**NIMBioS, Blount Hall, 1534 White Ave, 4<sup>th</sup> floor**

### **“Non-random dispersal in intraguild predation communities”**

Intraguild predation (IGP) refers to a community module that blends competitive and predator/prey dynamics. Although IGP is widespread in nature, spatially homogeneous models for IGP communities predict that stable coexistence is only possible if restrictive conditions on resource productivity, competitive ability and predation susceptibility are satisfied. This talk will consider the population dynamics of an IGP module in a spatially heterogeneous landscape and examine how non-random dispersal can lead to more robust coexistence states.

*\*Join us for refreshments in the NIMBioS Lobby on the 4th floor at 3 p.m.*

For more information about this and other NIMBioS Seminars, visit

<http://www.nimbios.org/seminars>

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