

What's in your gut?

Microbial community assembly, spatial structure, and immigration

How do microbes colonize the gut? How are they spatially organized? And how is gut microbiome composition related to the “upstream” source of immigrating microbes? This talk will show how mathematical, statistical, and computational models can be used to analyze biological datasets (namely, fruit fly gut microbiome abundance datasets) and address each of these questions, thereby shedding light on the processes that determine the microbes that reside in your gut.

Dr. Eric Jones is a new Assistant Professor at UCCS in the Department of Physics and Energy Science with a background in mathematical modeling, stochastic analysis, and quantitative biology.