

SOMS Friday Seminar
February 22, 2008
Please Note Location: University Center Room 223-224
2:30-3:25

A Statistician and a Biologist walked into a bar...

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ABSTRACT

During collaboration with biologists we proposed very simple statistical tools that ended up solving major ecological problems. In this talk we will present some of these simple sampling bias correction ideas and implementation of Kohonen self-organizing feature maps (SOFM) in the context of an ecological study. In particular, entomologists collected data on a species of grasshopper (*Romalea microptera*) native to South Florida. We created maps that organize the data based on body size characteristics and discriminate between different groups of grasshoppers with respect to sex, age, and location.

Refreshments provided after seminar on 3rd floor SMC