

Combining Aggregate and Individual Data in Ecological Inference

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Hörsaal B 206, Hauptgebäude

In this talk I will discuss my work with Jim Greiner involving ecological inference for arbitrarily large 2-way tables. The first portion of the talk will discuss our probability model for ecological data along with Bayesian inference for that model. I will then discuss our later work that shows how small amounts of individual-level data can be used to dramatically improve the quality of the ecological estimates. Here I will discuss considerations for developing efficient sampling designs as well as the details of the model for both individual and ecological data. I'll finish the talk with some practical considerations for conducting exit polls.

The papers this talk is based on include:

<http://www.law.berkeley.edu/files/GQ-JRSSA.pdf>

http://www.law.berkeley.edu/files/ExitPolling_Greiner-Quinn.pdf

http://www.law.berkeley.edu/files/VoterIDLaw_Rachael-Cobb-Greiner.pdf