

# Finding happiness in your SAD

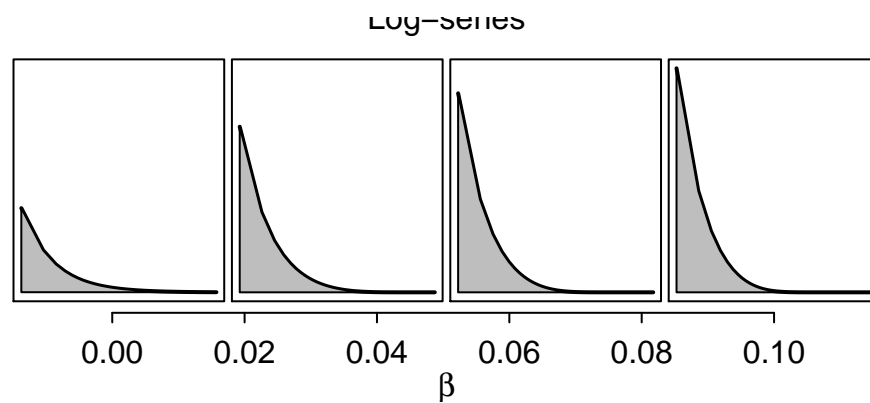
*Andrew J. Rominger*

## Abstract

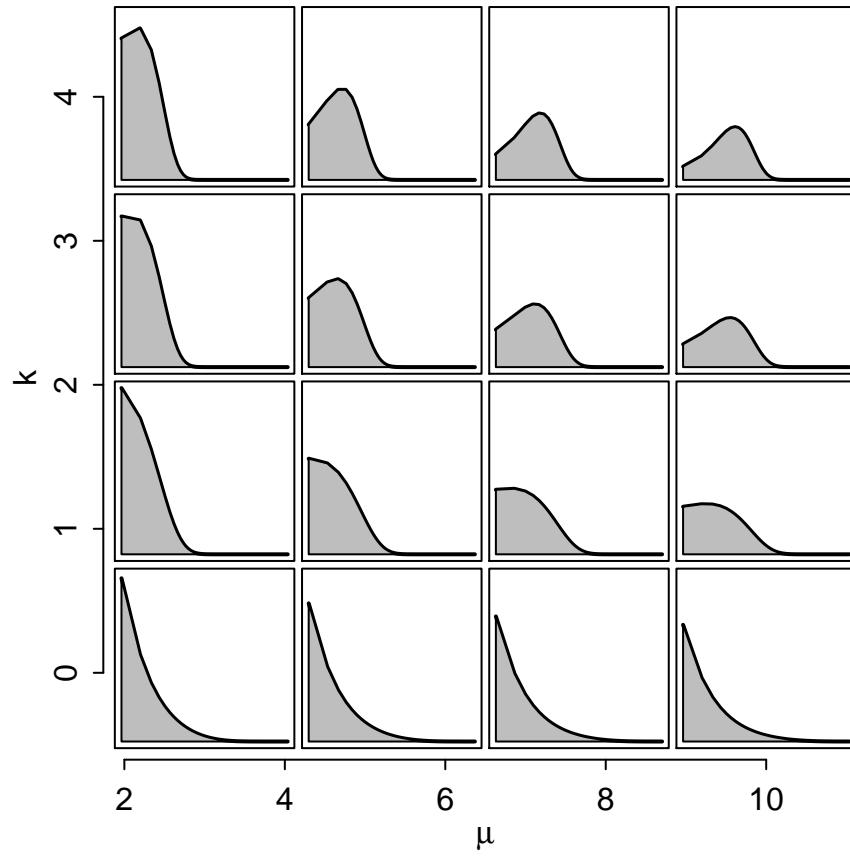
## Introduction

The species abundance distribution (SAD) is a central metric used through Ecology to describe the commonness

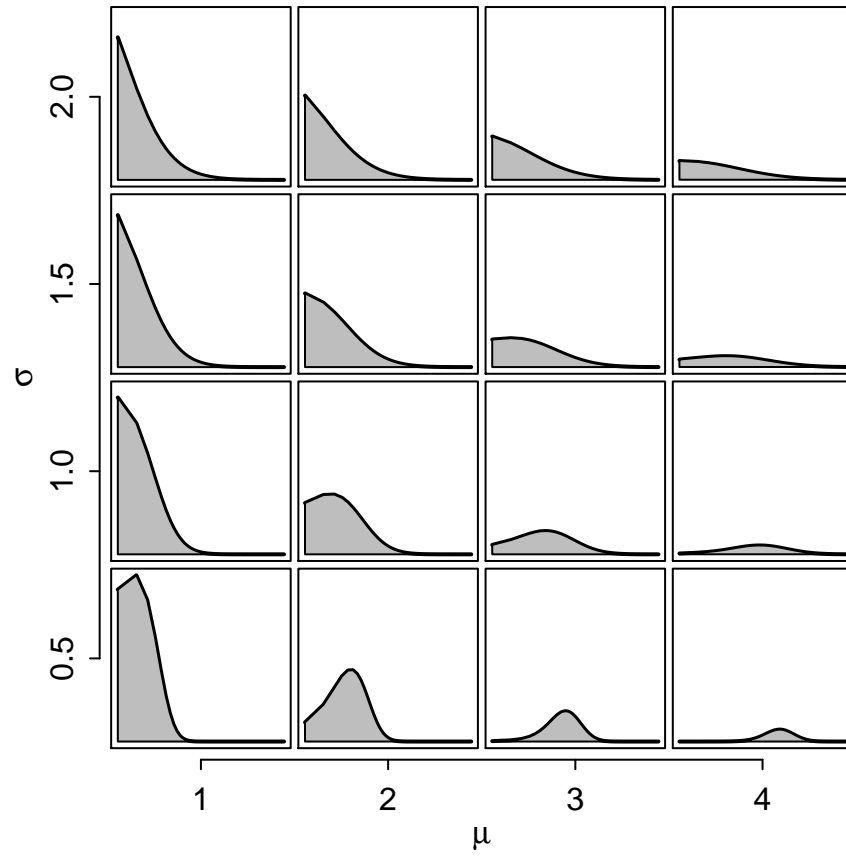
## SAD shapes



Truncated negative binomial



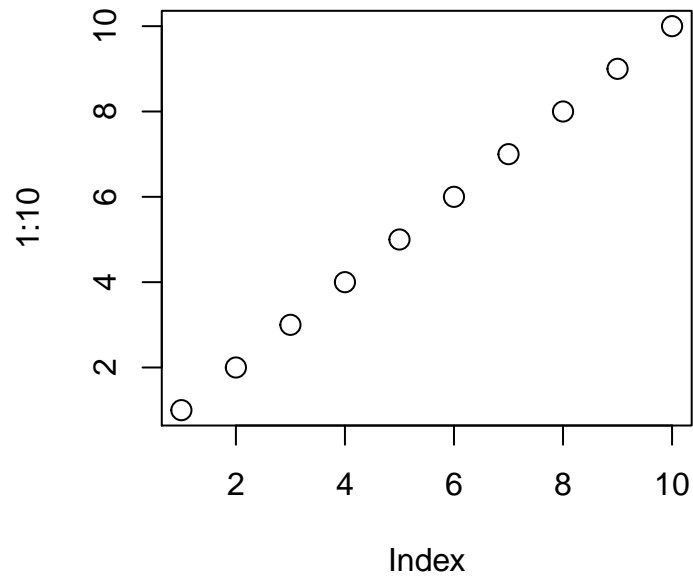
Poisson lognormal



## Methods

## Results

correlation of various goodness of fit metrics



relative AIC with sampling

hypothesis tests with sampling

probability of internal modes with sampling and generating model

model distinguishability across NB parameter space

## Discussion

- Don't bin
- Don't "average"
- Fit with likelihood
- Sampling is important and the veil line is too simplistic

## References