

Quantifying Elephant Social Structure

Using a Bilinear Mixed Effects Model to Elicit Qualities of Elephant Behavior

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Outline

- 1 Introduction
 - Elephant Social Structure
 - Scientific Questions
 - Data Collection
- 2 The Model
 - Main Results
 - Basic Ideas for Proofs/Implementation

Elephant Social Structure

- Only females and juveniles form families. Adult males just run around looking to mate.
- The oldest female is usually the leader since she's the largest and wisest.
- Elephants within a family tend to be related.

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- What role does kinship play in the social structure?
- How does the social structure change in the Wet Season vs. the Dry Season?

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- The adult female elephants are identified and recorded.
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Summary

- The **first main message** of your talk in one or two lines.
- The **second main message** of your talk in one or two lines.
- Perhaps a **third message**, but not more than that.

- Outlook
 - Something you haven't solved.
 - Something else you haven't solved.

For Further Reading I



A. Author.

Handbook of Everything.

Some Press, 1990.



S. Someone.

On this and that.

Journal of This and That, 2(1):50–100, 2000.