TODOTITLE:

bees...

Jia Le Lim CID: 00865029

Department of Biology, Imperial College London,

South Kensington Campus, London, U.K.

Anything extra

Supervised by

Dr. Samraat Pawar

Last updated: March 10, 2017

Contents

1 Introduction

1.1 Things we can try

- metabolism equation for bees using size
- network turnover rate for bees
  - change of interactions
  - species turnover
  - is there sufficient data..., will need to cover a substantial number of bee species
- how size relates with abundance of bees
  - what size indicator to use...
  - intertegular span (62 bee species, Greenleaf et al 2007)
  - correlation analysis of data
  - there will probably be enough data for this
- how size relates with foraging distances and hence network?
  - increase in size significantly correlated with increase in foraging distances
  - so perhaps bigger bees have higher changes of interactions as they are generalists...?
- how metabolism rate link with (body size and hence) network turnover perhaps...?

1.2 Things to do

- Timetable/Plan
- Focus
  - on one bee species?

–

- null and alternative hypotheses

1.3 Questions...

- how does one know which equation to use....? to have a model for metabolism rate of bees
- have a bunch of equations and then see if data matches....?
- what kind of equations to use..... is it possible ODE rate of change of metabolism rate with respect to size or am i sprouting nonsense....

2 Materials and Methods

3 Results

4 Discussion