

Pratik R Gupte
Modelling Adaptive Response Mechanisms Group
Bijleveld Lab
Contact information
Supervisors
Promoters
Funding

movement of animals **consistent individual differences** **red knots** *Calidris canutus* **spatio-temporal change**
Introduction *Animal movement, Movement as personality* *Modelling movement* **About this project** **Towards a m**
Why Where How
nathanetal2008.png *The movement ecology paradigm places observed movement (path: U) as both a consequence of prior f*
ecology
state movement types sensu lat *fast slow predictability*
spiegeletal2017.png *Spiegel et al. (2017) layout a framework linking personality, movement, and resulting interactions.*
Charadrii, Calidris canutus
movement guilds
evolution of movement types sensu environmental predictability and rate of change **red knot system**
How many movement types are evolved under different regimes of spatial predictability and variability?
What is the link between behaviour and labile physiological state?
How do movement type frequencies develop over ecological and evolutionary time-scales? (1)(1)(3)
How does landscape structure change over ecological and evolutionary time?
How does the number and phenotype of movement types change over evolutionary time? (1)
Do critical transitions occur in the number or profitability of movement types?
(1)
Do red knots show movement types that can be identified from a combination of data sources?
Do red knots show assortative association based on movement type?
Modelling landscapes **Modelling agents**
nottt+1tt+1
Phalaropus
n
essayfigure3.png *Examples of Gaussian random field neutral landscapes generated in R following methods from Sciain*
Run unpublished data
why where where how
2
x, y unpublished data
islandica