

PROPOSITIONS

accompanying the dissertation on

❧ ANIMAL MOVEMENT STRATEGIES ❧

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1. *Everybody believes your data but you, nobody believes your model but you.*
— *John Fryxell, in conversation, 2021 (paraphrasing Einstein).*
2. Animal movement ecology needs to adopt computational best-practices from other big-data disciplines.
— *Chapter 2.*
3. Animals' fine-scale movement decisions incorporate not only what they can see, but what they think other individuals can see.
— *Chapter 3.*
4. Mechanistic, individual-based simulation modelling of movement decisions opens the door to insights into the evolutionary ecology of animal movement.
— *Chapters 4, 5.*
5. The emergence of individual variation in behavioural strategies is likely common in scenarios with spatial heterogeneity in costs and benefits.
— *Chapters 4, 5.*
6. Rapid evolution in social movement strategies under the risk of pathogen transmission can drastically reshape the structure of animal societies.
— *Chapter 5.*
7. Statistical tools in movement ecology are sensitive to the scale and mechanisms of individual variation — this makes understanding mechanisms as important as applying sophisticated statistical methods.
— *Chapter 6.*
8. Ecologists are fated to be chroniclers of a dying earth.
9. The mongoose is a non-goose.
10. *Coming back to where you started is not the same as never leaving.*
— *Terry Pratchett*