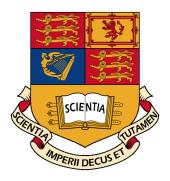# Energy Investment in Growth Rate and Reproduction

Dónal Burns

CID: 01749638

Imperial College London

Email: donal.burns@imperial.ac.uk

Submitted: August 2020

Word Count: 33

A thesis submitted in partial fulfilment of the requirements for the Computational Methods in Ecology and Evolution Master of Science at Imperial College London

Formatted in the journal style of Functional Ecology

Submitted for the MSc in Computational Methods in Ecology and Evolution

Abstract

1   some text

2   some text

3   some text

4   some text

5   some text

6   some text

Acknowledgements

I would like to thank my supervisor..... thanks to luke who gave a great base to start from on the project

Code and Data Availability

Contents

1   Introduction

What is an OGM and ontogenic growth?

An ontogenetic model or OGM is a model which describes the development of an organism. Within a metabolic framework this describes how an organism's assess to and and alocation of energy changes throughout its lifetime.

explain west's model

explain terms

why is 'a' resting metabolic rate?

explain charnov's contribution

- graph with generic example of the plot for illustration purposes

explain what I am adding to 'cm' and why –¿ maybe leave for the methods?

talk about barneche 2018

raises question of scaling elsewhere

talk about samraats work and how I plan to use it

the goal of my paper

2   Methods

some text

3   Results

some text

4   Discussion

some text

5   Conclusion (not part of the scheme?)

some text

References