My proposal

a study of awesomeness

uOttawa

Research proposal by

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Thesis Advisory Committee members:

Julien Martin (supervisor)
member 2 (internal)
member 3 (external)

A proposal submitted as a partial requirement for a PhD degree
at the University of Ottawa, Department of Biology

Table of contents

Introduction

It provides the scientific basis for the study and a (brief) review of the current literature, the key question(s) for you research leading -up to the next section about your specific hypotheses or objectives.

This template is developed for Quarto (Allaire et al. 2022). You can add tables, figures and code using R (R Core Team 2023), Python, Julia or Observables. For more info, go to the Quarto website https://quarto.org/

Research objectives and hypotheses

Specific hypotheses (in the case of hypothesis-testing science) or objectives (in the case of descriptive science), and the underlying logic, for each proposed thesis chapter (minimum three for PhD students)

Proposed methodologies

Include outlines of data collection and data analysis

Outline any special skills, equipment, or techniques that will be required.

Expected Products

A list of the (usually 1/3) articles expected for completion of the MSC/PhD. Think of each as a fantasy abstract.

1. The Evolution of Human Uniqueness. Bob Hette & Julien Martin.

    There is wide agreement that humans are unique. But it is rarely asked: Have they always been unique? In this paper, we derive a general uniqueness theorem that states that any unique species must have been less unique at some point in the past. This theorem has implications for the achievement of world peace.

2. Niche Construction, Disease Transmission, and Global Warming: Chaos Deconstructs the Block Chain. Bob Hette, Igor Tex & Julien Martin

    How many buzz words can be combined in a title? In this paper, we find that the natural limit on buzz words in any specific scholarly field is always given by the triangular number T_n where n is one more than the number of tenured faculty in the field.

3. A Bayesian Hierarchical Survival Analysis of Counting Sheep. Bob Hette & Julien Martin

    Just like all those other models of counting sheep, but this one will be Bayesian.

Scientific value and rationale for the research

Course selection

Schedule

Outline of the calendar for the work. This is necessarily rough and subject to change. Usually include a Gantt chart

Completed to date

Six month plan

References

Allaire, J. J., Teague, C., Scheidegger, C., Xie, Y., and Dervieux, C. (2022), "Quarto." https://doi.org/10.5281/zenodo.5960048.

R Core Team (2023), *R: A language and environment for statistical computing*, Vienna, Austria: R Foundation for Statistical Computing.