

My proposal

a study of awesomeness



uOttawa

Research proposal by

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Thesis Advisory Committee members:

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member 2 (TAC member)

member 3 (TAC member)

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

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Introduction

It provides the scientific basis for the study and a (brief) review of the current literature, the key question(s) for your 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.

In case you want to add a wide table that needs to be on a landscape page you can do like in Table 1. Have a look at the `qmd` for the code.

You need to put the table in a pandoc div (delimited by `:::`) indicating the side way rotation

It also works for figures just use `sidewaysfigure` instead of `sidewaystable`

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.

Table 1: This is a wide table

	num	char	fctr	date	time	datetime	currency
grp_a							
row_1	0, 11	apricot	one	jeu. 15/01/2015	13:35	Monday, January 1, 2018	49, 95
row_2	2, 22	banana	two	dim. 15/02/2015	14:40	Friday, February 2, 2018	17, 95
row_3	33, 33	coconut	three	dim. 15/03/2015	15:45	Saturday, March 3, 2018	1, 39
row_4	444, 40	durian	four	mer. 15/04/2015	16:50	Wednesday, April 4, 2018	65 100, 00
grp_b							
row_5	5 550, 00	NA	five	ven. 15/05/2015	17:55	Saturday, May 5, 2018	1 325, 81
row_6	NA	fig	six	lun. 15/06/2015	NA	Wednesday, June 6, 2018	13, 26
row_7	777 000, 00	grapefruit	seven	NA	19:10	Saturday, July 7, 2018	NA
row_8	8 880 000, 00	honeydew	eight	sam. 15/08/2015	20:20	NA	0, 44

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.