

INVENTING THE SUIT AND SAVING THE WORLD: ONE HUMAN'S STORY OF  
UNPARALLELED GENIUS, INTERMINABLE COURAGE, AND GENERAL  
AWESOMENESS

by  
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B.S. University of Pirates, 2020

A Thesis submitted in Partial Fulfillment of the Requirements  
for the Degree of

Master of Science  
in  
Engineering

University of Alaska Fairbanks  
August 2023

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## **Dedication**

To Wanda Maximoff:

Write as a block (or single paragraph) with no indentation. The dedication is optional. A dedication is an expression of friendly connection, gratitude, or thanks by the author towards another person or person(s). It may also be used to highlight a connection to a community or cause. Adapted from Wikipedia. The dedication has its own place on the dedication page and is part of the front matter.

## **Abstract**

Abstract to be less than 300 words. Write as a single block without indentation. The abstract is required. An abstract is a concise summary of your thesis. It should summarize your thesis, its results, and their broader relevance. It allows readers determine the relevance of your thesis for their own research. It also communicates your key findings to those who don't have the time to read your entire thesis.

## **Plain Word Summary**

Plain word summary to be less than 300 words. The plain word summary is optional. Write as a single block without indentation. Write as a single block without indentation. A Plain Word Summary should convey the same information as the Abstract but in a different language and tone. It should summarize your thesis, its results, and their broader relevance without using jargon so that it is understandable by readers from outside of your discipline, as well as journalists and educators. The audiences include, but are not limited to, practitioners, policy makers, the public, and/or professionals in nearby disciplines.

## **Acknowledgements**

Write as a paragraph, or paragraphs, with indentation. The acknowledgements section is optional. The acknowledgments section is where you recognize and thank everyone (mentor/advisor committee, friends, family, colleagues, communities, organizations, agencies) who helped you with your thesis and contributed to your success. It's a way to show your appreciation and recognition of them in a public and permanent forum. You can also include a Land Acknowledgement in the acknowledgements. It is also the section where you can formally report any agencies and organizations that provided financial or other material support for your work (e.g., I acknowledge the support of the UAF graduate school for ...., I thank Foundation X for ....). I acknowledge the support of the graduate school for a travel grant in Fall 2022. I acknowledge the support of the National Science Foundation under grant 2012345.

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## **Chapter 1: General Introduction**

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## Chapter 2: First Paper Title

### 2.1 Abstract

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### 2.2 Introduction

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Figure 2.1: A capybara wearing a suit. Probably has an important meeting to get to.

## 2.3 Methods

### 2.3.1 Study System

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### 2.3.2 Mathematical Model

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$$\frac{\partial u_i}{\partial t} = \underbrace{D \nabla^2 u_i}_{\text{Random Motion}} - \underbrace{2 \nabla [A_i \nabla u_i]}_{\text{Directed Motion}} \quad (2.1)$$

### 2.3.3 Statistical Model

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$$f(\mathbf{x}|\mathbf{y}, \theta_0) = \frac{\phi(\mathbf{x}|\mathbf{y}, \theta_0) \omega(\mathbf{x}, \boldsymbol{\beta})}{\int_{\Omega} \phi(\mathbf{x}'|\mathbf{y}, \theta'_0) \omega(\mathbf{x}', \boldsymbol{\beta})} \quad (2.2)$$

Parameter	Interpretation	Dimensions
$\mathbf{x}$	spatial location	[1x2]
$u_i(x,t)$	individual territory	[1x1] (i=5)
$V_{hr}$	vector field defining available space	[1x1]
$B(\mathbf{x})$	perceptive range of individual	[1x12]
$s_j(x,t B(x))$	Spatially averaged effect in perceptive range	[1x1] (j=4)
$B^C_{i,j}$	effect of conspecific (from iSSA)	[5x5]

Table 2.1: Model components and parameters making up advection diffusion model as well as biological interpretation in model's system.

## 2.4 Results

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### 2.4.1 Steady State Solution

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	TET052	TET030	TET072	TET062	TET074
TET052	-	-0.3	-0.1	-0.1	-0.14
TET030	-0.26	-	-0.1	-0.2	-0.2
TET072	-0.1	-0.1	-	-0.13	-0.1
TET062	-0.1	-0.31	-0.16	-	-0.1
TET074	-0.13	-0.21	-0.1	-0.1	-

Table 2.2: They all seem to be negative. Maybe that's significant? Maybe it's not. Why are a bunch of them 0.1?

## 2.4.2 Non-territorial Individual Analysis

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismodnunc eupurus. Donec bibendumquam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

## 2.5 Discussion

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## 2.6 References

Einstein, A., Darwin, C. & Linnaeus, C. (1425) The hungry hungry moose. *Journal of Hungry Animals*. 3, 2150–8925.

Styles, H., Horan, N., Payne, L., Tomlinson, L. & Malik, Z. (1985) How many directions are there: Only the one. *Scandinavian Journal of Music*. 12, 97–15.

## Chapter 3: Second Paper Title

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Present the abstract as it appears in the paper as a single paragraph with indentation.

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## 3.5 Discussion

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## **Chapter 4: General Conclusions**

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## **Appendix A: Supplemental Material**

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Figure A.1: Frog looking real dapper.

## **Appendix B: More Supplemental Material**

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.