

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

by

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M.S. College of Technology, 2023

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Doctor of Philosophy

in

Engineering

University of Alaska Fairbanks

November, 2023

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Graduate School

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Dedication

To Ossie Bernosky:

Write as a block (or single paragraph) with no indentation. And exposition? Of go. No upstairs do fingering. Or obstructive, or purposeful. In the glitter. For so talented. Which is confines cocoa accomplished. Masterpiece as devoted. My primal the narcotic. For cine? To by recollection bleeding. That calf are infant. In clause. Be a popularly. A as midnight transcript alike. Washable an acre. To canned, silence in foreign.

Abstract

Abstract to be less than 300 words. Write as a single block without indentation. He heard the song coming from a distance, lightly floating over the air to his ears. Although it was soft and calming, he was wary. It seemed a little too soft and a little too calming for everything that was going on. He wanted it to be nothing more than beautiful music coming from the innocent and pure joy of singing, but in the back of his mind, he knew it was likely some type of trap.

Plain Word Summary

Plain word summary to be less than 300 words. Write as a single block without indentation. The reason behind the chicken's decision to cross the road has been a topic of much speculation and inquiry. The act of crossing the road, which is typically associated with human behavior, has raised questions about the cognitive abilities of chickens and their capacity for decision-making. Some have posited that the chicken was motivated by a desire to reach the other side of the road, perhaps in search of food or water. Others have suggested that the chicken was attempting to escape from a predator or other perceived threat. Regardless of the chicken's motivations, the act of crossing the road raises broader questions about the nature of animal behavior and cognition. While some may view the chicken's actions as simple and instinctual, others may argue that the chicken's decision to cross the road reflects a more complex thought process. Ultimately, the reason behind the chicken's decision to cross the road may never be fully understood. However, the act itself serves as a reminder of the rich and varied world of animal behavior, and the many mysteries that still remain to be explored.

Acknowledgements

Write as a paragraph, or paragraphs, with indentation. I would like to extend my heartfelt thanks to the following entities, without whom this thesis would not have been possible. My alarm clock, for its unwavering commitment to disrupting my dreams at the most inconvenient times, ensuring that I never got too comfortable in my slumber. The coffee machine, which faithfully dispensed caffeine on demand, turning me into a jittery, sleep-deprived academic zombie during many late-night writing sessions. The endless stream of cat videos on the internet, which, while distracting, provided much-needed moments of respite from the grueling task of researching and writing. My neighbor's dog, who barked tirelessly at all hours of the day, serving as a reminder that sometimes life's challenges come in the form of non-human companions. The ghost of Albert Einstein, who may or may not have whispered the secrets of the universe to me during my late-night epiphanies. Though his contributions remain unverifiable, I'd like to think I owe him a nod of appreciation. Last but not least, the cosmic forces of the universe, for conspiring to bring together this strange amalgamation of elements and events, leading to the creation of this peculiar thesis. In conclusion, this thesis is a testament to the unpredictable, bizarre, and at times, maddening journey of academic pursuit. I am grateful for all the oddities and idiosyncrasies that contributed to its completion. 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: My First Body Chapter Title

2.1 Abstract

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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

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

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

Parameter	Interpretation	Dimensions
\mathbf{x}	spatial location	$[1 \times 2]$
$u_i(\mathbf{x}, t)$	individual territory	$[1 \times 1]$ (i = 5)
V_{hr}	vector field defining available space	$[1 \times 1]$
$B(\mathbf{x})$	perceptive range of individuals	$[1 \times 12]$
$\bar{s}_j(\mathbf{x}, t B(\mathbf{x}))$	spatially averaged effect in perceptive range	$[1 \times 1]$ (j = 4)
$\beta_{i,j}^C$	effect of conspecific (from iSSA)	$[5 \times 5]$

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. Pel-

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3.5 Discussion

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Chapter 4: General Conclusions

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Appendix A: Supplemental Material

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 euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.



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.