

# **An Awesome Thesis That Will Prove to the Universe That I Really Deserve This Honorable Degree**

by

**Albert Richard Einstein, III**

A.A.S., University of Southern Swampland, 1988

M.S., Art Therapy, University of New Mexico, 1991

THESIS

Submitted in Partial Fulfillment of the  
Requirements for the Degree of

Master of Science  
Mathematics

The University of New Mexico

Albuquerque, New Mexico

December, 2018

# Dedication

*To my parents, Albert II and Gladys, for their support, encouragement and the  
Corvette they're giving me for graduation.*

*"A bird in hand is worth two in the bush" – Anonymous*

# Acknowledgments

I would like to thank my advisor, Professor Martin Sheen, for his support and some great action movies. I would also like to thank my dog, Spot, who only ate my homework two or three times. I have several other people I would like to thank, as well.<sup>1</sup>

---

<sup>1</sup>To my brother and sister, who are really cool.

# **An Awesome Thesis That Will Prove to the Universe That I Really Deserve This Honorable Degree**

by

**Albert Richard Einstein, III**

A.A.S., University of Southern Swampland, 1988

M.S., Art Therapy, University of New Mexico, 1991

M.S., Mathematics, University of New Mexico, 2018

## **Abstract**

The theory of relativity is a real “toughie” to prove, but with the help of my family and my great grandpa Al, this paper presents the proof in its entirety. Most of the math is correct, and the part about “warp speed” and “parallel universe” sounds very high-tech.

# Contents

List of Figures	vi
List of Tables	vii
Glossary	viii
<b>1 Introduction</b>	<b>1</b>
1.1 Overview . . . . .	1
1.2 Conclusions . . . . .	1
<b>2 Future Work</b>	<b>2</b>
<b>Appendices</b>	<b>3</b>
<b>A Proving <math>E = MC^2</math></b>	<b>4</b>
<b>B Derivation of <math>A = \pi r^2</math></b>	<b>5</b>

# List of Figures

# List of Tables

# Glossary

$a_{lm}$	Taylor series coefficients, where $l, m = \{0..2\}$
$A_{\mathbf{p}}$	Complex-valued scalar denoting the amplitude and phase.
$A^T$	Transpose of some relativity matrix.



# Chapter 1

## Introduction

### 1.1 Overview

The classic approach to proving a theorem is some really difficult mathematics. For the theory of relativity, I asked grandpa Al exactly how he proved it. He gave me a few hints, including some stuff about rest mass and big electro-motive force. I think he is really smart.

### 1.2 Conclusions

I conclude that this is a really short thesis.

## Chapter 2

### Future Work

I'm sure my future work will consist of lots of other famous stuff.

# Appendices

**A** Proving  $E = MC^2$  4

**B** Derivation of  $A = \pi r^2$  5

# Appendix A

## Proving $E = MC^2$

I refer the reader to many of grandpa's famous books on this subject.

# Appendix B

## Derivation of $A = \pi r^2$

A circle is really a square without corners. QED.