



## AN ABSTRACT OF THE DISSERTATION OF

Jeffrey M. Young for the degree of Doctor of Philosophy in Computer Science presented on  
September 23, 2011.

Title: Variational Satisfiability Solving

Abstract approved: \_\_\_\_\_

Eric Walkingshaw

This is an abstract statement.

©Copyright by Jeffrey M. Young  
September 23, 2011  
All Rights Reserved

# Variational Satisfiability Solving

by

Jeffrey M. Young

A DISSERTATION

submitted to

Oregon State University

in partial fulfillment of  
the requirements for the  
degree of

Doctor of Philosophy

Presented September 23, 2011  
Commencement June 2012

Doctor of Philosophy dissertation of Jeffrey M. Young presented on September 23, 2011.

APPROVED:

---

Major Professor, representing Computer Science

---

Director of the School of Electrical Engineering and Computer Science

---

Dean of the Graduate School

I understand that my dissertation will become part of the permanent collection of Oregon State University libraries. My signature below authorizes release of my dissertation to any reader upon request.

---

Jeffrey M. Young, Author

## ACKNOWLEDGEMENTS

I would like to acknowledge the Starting State and the Transition Function.

## Chapter 1: Introduction

### 1.1 Motivation and Impact

### 1.2 Contributions and Outline of this Thesis

## Chapter 2: Background

### 2.1 Satisfiability Solving



## Chapter 3: Variational Propositional Logic

## Chapter 4: Variational Satisfiability Solving

## Chapter 5: Extensions to Variational Satisfiability Solving

## Chapter 6: Related Work

## Chapter 7: Conclusion

Wow, that really was excellent.

### 7.1 Fin

This is the end, my only friend, the end.

## APPENDICES

## Appendix A: Redundancy

This appendix is inoperable.

