

UNIVERSITY OF CALIFORNIA  
Los Angeles

Integration and Goal-Guided Scheduling of Bottom-Up and Top-Down Computing  
Processes in Hierarchical Models

A dissertation submitted in partial satisfaction  
of the requirements for the degree  
Doctor of Philosophy in Physics

by

Your Official Name

2017

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2017

# ABSTRACT OF THE DISSERTATION

Integration and Goal-Guided Scheduling of Bottom-Up and Top-Down Computing  
Processes in Hierarchical Models

by

Your Official Name

Doctor of Philosophy in Physics

University of California, Los Angeles, 2017

Professor Chair's name 1, Chair

Ne quo feugiat tractatos temporibus, eam te malorum sensibus. Impetus voluptua senserit id mel, lucilius adipiscing at duo. Suas noster sanctus cu pro, movet dicam intellegebat pri ad, esse utamur vulputate ut per. Admodum facilisi sea an, omittam molestiae pertinacia vim eu, et eam illud graeco. Enim persius duo ei, mea te posse congue putent.

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Ad vel dicant aliquip, ut eam agam constituto, no quo erant melius. Porro labores invidunt ad vel, quaeque epicurei vituperatoribus ex cum. Qui tamquam omnesque ex, essent percipitur intellegam an per. Iusto expetenda sed et.

The dissertation of Your Official Name is approved.

Committee Member 1 Name

Committee Member 2 Name

Committee Member 3 Name

Chair's name 1, Committee Chair

University of California, Los Angeles

2017

*To my mother . . .  
who—among so many other things—  
saw to it that I learned to touch-type  
while I was still in elementary school*

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## PREFACE

You can change the title of “Acknowledgments” page by `\renewcommand{\acksname} {Preface}`.

## CURRICULUM VITAE

1974 – 1975	Campus computer center “User Services” programmer and consultant, Stanford Center for Information Processing, Stanford University, Stanford, California.
1975	B.S. (Mathematics) and A.B. (Music), Stanford University.
1977	M.A. (Music), UCLA, Los Angeles, California.
1977 – 1979	Teaching Assistant, Computer Science Department, UCLA. Taught sections of Engineering 10 (beginning computer programming course) under direction of Professor Leon Levine. During summer 1979, taught a beginning programming course as part of the Freshman Summer Program.
1979	M.S. (Computer Science), UCLA.
1980 – 1981 (expected)	Research Assistant, Computer Science Department, UCLA.
1981 – present	Programmer/Analyst, Computer Science Department, UCLA.

## PUBLICATIONS

1. Alexander Kusenko, Masahiro Kawasaki, Lauren Pearce, and Louis Yang, “Relaxation leptogenesis, isocurvature perturbations, and the cosmic infrared background,” [Phys. Rev. D \*\*95\*\*, 103006 \(2017\)](#), [arXiv:1701.02175 \[hep-ph\]](#).
2. Alexander Kusenko, Lauren Pearce, and Louis Yang, “Postinflationary Higgs relaxation and the origin of matter-antimatter asymmetry,” [Phys. Rev. Lett. \*\*114\*\*, 061302 \(2015\)](#), [arXiv:1410.0722 \[hep-ph\]](#).



## PRESENTATIONS

1. “Evolution of Scalar Fields in the Early Universe,” at PACIFIC 2015 in Moorea, French Polynesia.
2. “Post-inflationary Higgs relaxation and the origin of matter-antimatter asymmetry,” at the 4th International Workshop on Dark Matter, Dark Energy and Matter-Antimatter Asymmetry in Hsinchu, Taiwan.

# CHAPTER 1

## Introduction

For text, let's use the first words out of the ispell dictionary [1].

aback<sup>1</sup> abaft abandon abandoned abandoning abandonment abandons abase abased abasement abasements abases abash abashed abashes abashing abasing abate abated abatement abatements abater abates abating abbe abbey abbey's abbeys.

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<sup>1</sup>This is going to be the footnote. See the font size and spacing between lines. See the font size and spacing between lines.

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# **APPENDIX A**

## **The First Appendix**

This is going to be the text for the first appendix. Notice that the appendix starts at the chapter level.

## BIBLIOGRAPHY

- [1] P.A.R. Ade et al. Planck 2013 results. XXII. Constraints on inflation. *Astron. Astrophys.*, 571:A22, 2014.