fdasrsf Documentation

Release 1.0.1

J. Derek Tucker

August 26, 2013

CONTENTS

1 Functional Alignment 3

2 Functional Principal Component Analysis 5

3 Utility Functions 7

4 Indices and tables 9

A python package for functional data analysis using the square root slope framework which performs pair-wise and group-wise alignment as well as modeling using functional component analysis.

CHAPTER

ONE

FUNCTIONAL ALIGNMENT

CHAPTER

TWO

FUNCTIONAL PRINCIPAL COMPONENT ANALYSIS

CHAPTER

THREE

UTILITY FUNCTIONS

References:

Srivastava, A., Wu, W., Kurtek, S., Klassen, E., Marron, J. S., May 2011. Registration of functional data using fisher-rao metric, arXiv:1103.3817v2 [math.ST].

Tucker, J. D., Wu, W., Srivastava, A., Generative Models for Function Data using Phase and Amplitude Separation, Computational Statistics and Data Analysis (2012), 10.1016/j.csda.2012.12.001.

CHAPTER

FOUR

INDICES AND TABLES

- *genindex*
- *modindex*
- *search*