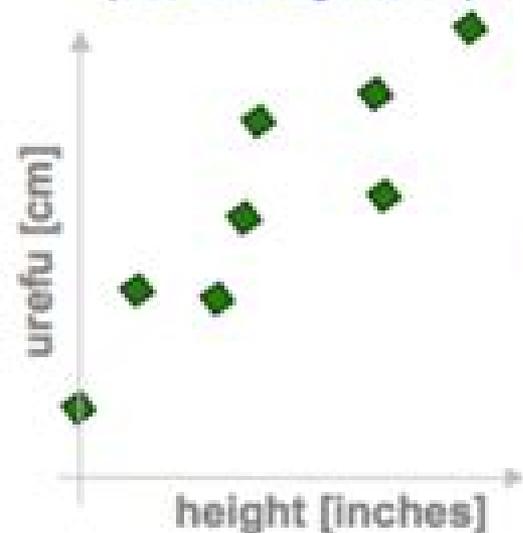


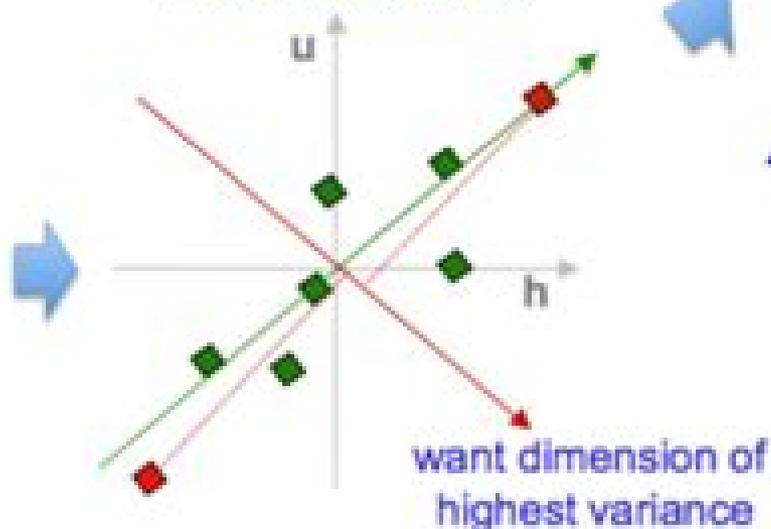
# PCA in a nutshell

## 1. correlated hi-d data

("urefu" means "height" in Swahili)



## 2. center the points



## 3. compute covariance matrix

$$\begin{matrix} & h & u \\ h & 2.0 & 0.8 \\ u & 0.8 & 0.6 \end{matrix} \rightarrow \text{cov}(h,u) = \frac{1}{n} \sum_{i=1}^n h_i u_i$$

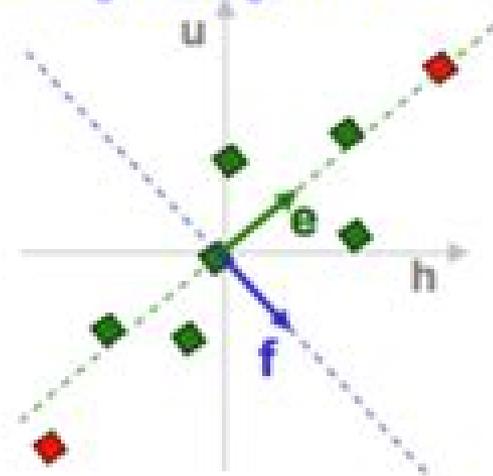
## 4. eigenvectors + eigenvalues

$$\begin{pmatrix} 2.0 & 0.8 \\ 0.8 & 0.6 \end{pmatrix} \begin{pmatrix} e_1 \\ e_2 \end{pmatrix} = \lambda_1 \begin{pmatrix} e_1 \\ e_2 \end{pmatrix}$$

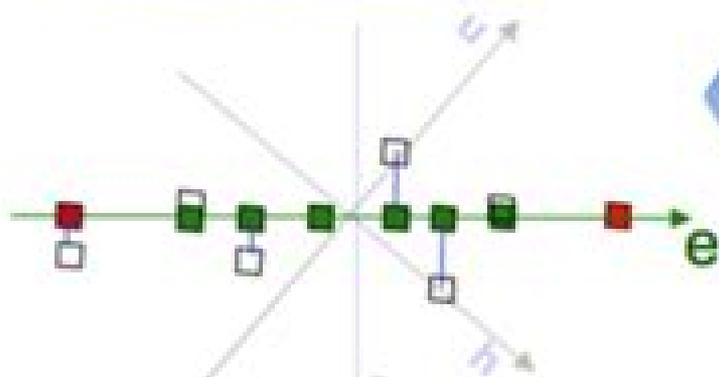
$$\begin{pmatrix} 2.0 & 0.8 \\ 0.8 & 0.6 \end{pmatrix} \begin{pmatrix} \ell_1 \\ \ell_2 \end{pmatrix} = \lambda_2 \begin{pmatrix} \ell_1 \\ \ell_2 \end{pmatrix}$$

`eig(cov(data))`

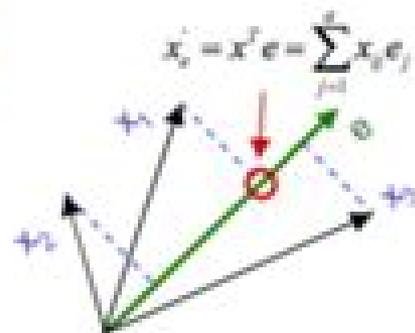
## 5. pick $m < d$ eigenvectors w. highest eigenvalues



## 7. uncorrelated low-d data

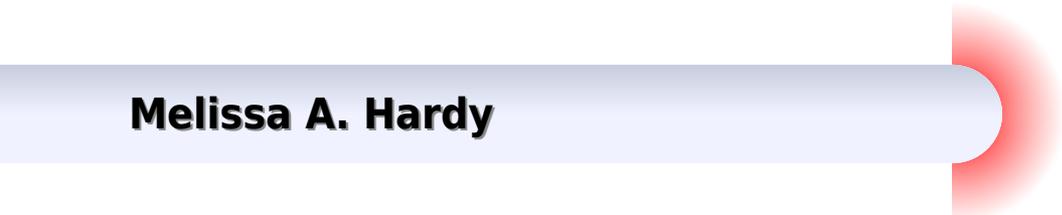


## 6. project data points to those eigenvectors



# Principal Components Analysis For Dummies

**Melissa A. Hardy**



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**Statistical Factor Analysis and Related Methods** Alexander T. Basilevsky, 2009-09-25 Statistical Factor Analysis and Related Methods Theory and Applications In bridging the gap between the mathematical and statistical theory of factor analysis this new work represents the first unified treatment of the theory and practice of factor analysis and latent variable models It focuses on such areas as The classical principal components model and sample population inference Several extensions and modifications of principal components including Q and three mode analysis and principal components in the complex domain Maximum likelihood and weighted factor models factor identification factor rotation and the estimation of factor scores The use of factor models in conjunction with various types of data including time series spatial data rank orders and nominal variable Applications of factor models to the estimation of functional forms and to least squares of regression estimators *Principal Components Analysis* George H. Dunteman, 1989-05 For anyone in need of a concise introductory guide to principal components analysis this book is a must Through an effective use of simple mathematical geometrical and multiple real life examples such as crime statistics indicators of drug abuse and educational expenditures and by minimizing the use of matrix algebra the reader can quickly master and put this technique to immediate use Regression with Dummy Variables Melissa A. Hardy, 1993-02-25 It is often necessary for social scientists to study differences in groups such as gender or race differences in attitudes buying behavior or socioeconomic characteristics When the researcher seeks to estimate group differences through the use of independent variables that are qualitative dummy variables allow the researcher to represent information about group membership in quantitative terms without imposing unrealistic measurement assumptions on the categorical variables Beginning with the simplest model Hardy probes the use of dummy variable regression in increasingly complex specifications exploring issues such as interaction heteroscedasticity multiple comparisons and significance testing the use of effects or contrast coding testing for curvilinearity and estimating a piecewise linear regression **Applied Statistics II** Rebecca M. Warner, 2020-01-14 Rebecca M Warner s bestselling Applied Statistics From Bivariate Through Multivariate Techniques has been split into two volumes for ease of use over a two course sequence Applied Statistics II Multivariable and Multivariate Techniques Third Edition is a core multivariate statistics text based on chapters from the second half of the original book The text begins with two new chapters an introduction to the new statistics and a chapter on handling outliers and missing values All chapters on statistical control and multivariable or multivariate analyses from the previous edition are retained with the moderation chapter heavily revised and new chapters have been added on structural equation modeling repeated measures and on additional statistical techniques Each chapter includes a complete example and begins by considering the types of research questions that chapter s technique can answer progresses to data screening and provides screen shots of SPSS menu selections and output and concludes with sample results sections By hand computation is used where possible to show how elements of the output are related to each other

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Business Analytics Jeffrey D. Camm, James J. Cochran, Michael J. Fry, Jeffrey W. Ohlmann, 2020-03-10 Present the full range of analytics from descriptive and predictive to prescriptive analytics with Camm Cochran Fry Ohlmann s market leading BUSINESS ANALYTICS 4E Clear step by step instructions teach students how to use Excel Tableau R and JMP Pro to solve more advanced analytics concepts As instructor you have the flexibility to choose your preferred software for teaching concepts Extensive solutions to problems and cases save grading time while providing students with critical practice This edition covers topics beyond the traditional quantitative concepts such as data visualization and data mining which are increasingly important in today s analytical problem solving In addition MindTap and WebAssign customizable digital course solutions offer an interactive eBook auto graded exercises from the printed book algorithmic practice problems with solutions and Exploring Analytics visualizations to strengthen students understanding of course concepts **Implementation and analysis, primary and middle school years (Population 1 and population 2)** Michael O. Martin, Dana L. Kelly, 1996

Land Constraints and Agricultural Intensification in Ethiopia Derek Headey, Mekdim Dereje, Jacob Ricker-Gilbert, Anna Josephson, Alemayehu Seyoum Taffesse, 2013-09-13 Highland Ethiopia is one of the most densely populated regions of Africa and has long been associated with both Malthusian disasters and Boserupian agricultural intensification This paper explores the race between these two countervailing forces with the goal of informing two important policy questions First how do rural Ethiopians adapt to land constraints And second do land constraints significantly influence welfare outcomes in rural Ethiopia To answer these questions we use a recent household survey of high potential areas We first show that farm sizes are generally very small in the Ethiopian highlands and declining over time with young rural households facing particularly severe land constraints We then ask whether smaller and declining farm sizes are inducing agricultural intensification and if so how We find strong evidence in favor of the Boserupian hypothesis that land constrained villages typically use significantly more purchased input costs per hectare and more family labor and achieve higher maize and teff yields and high gross income per hectare However although these higher inputs raise gross revenue we find no substantial impact of greater land

constraints on net farm income per hectare once family labor costs are accounted for Moreover farm sizes are strongly positively correlated with net farm income suggesting that land constraints are an important cause of rural poverty We conclude with some broad policy implications of our results *Transfer Pricing* Frederick W. Winter, Jagdish N. Sheth, 1973

**Golden Growth** Indermit S. Gill, Martin Raiser, 2012-04-27 The report documents the impressive achievements of the European growth model over the last 50 years Accounting for the stresses it is experiencing and assessing the longer term challenges that Europe will face the report then evaluates the six principal components of the model Trade Finance Enterprise Innovation Labor and Government It finds that the European growth model has been a powerful engine for economic convergence helping developing countries in Europe catch up to their richer neighbors and become high income economies But recent changes in and outside Europe necessitate change The report proposes the adjustments needed to make trade and finance work even better to encourage enterprise and innovation in parts of Europe which have begun to lag and address shortcomings in the functioning of labor markets and governments The changes proposed would restart the European convergence machine make Europe's enterprises competitive and help Europeans afford the highest standards of living in the world The New Direct Marketing: How to Implement A Profit-Driven Database Marketing Strategy David Shepard Associates, 1999-04-21 Deploy marketing dollars more efficiently In today's take no prisoners direct marketing battleground the only way to win is to recognize and exploit all of DM's interconnecting components Using cutting edge research and examples drawn from today's business pages *The New Direct Marketing Third Edition* by the award winning David Shepard Associates shows you how to sell to increasingly wary and jaded consumers This exhaustively updated edition introduces you to recent technological changes from data mining data warehouses and CHAID modelling to profitable use of the Internet You'll develop customized customer focused marketing programs and strategies as you learn how to Offset through the roof marketing costs with predictive and segmentation modeling Profit from a constant stream of demographic psychographic and lifestyle data from ongoing customer dialogues Target promos and bonus offers based on previous purchases buying patterns and stated preferences Much much more Research Methods in Business Studies Pervez N. Ghauri, Kjell Grønhaug, Ivar Kristianslund, 1995 This guide demonstrates to students the importance of a scientific approach to business research and problem solving projects It shows how to formulate a problem and choose a research method and how to argue and motivate The book discusses the practicalities of research such as problem formulation relating the research to previous studies choosing the right methodology presentation of results report writing and drawing conclusions This work is intended for MBA MSc and undergraduate students doing business studies business administration economics finance and marketing courses Consultants and organizations undertaking research in business studies should also find this a useful text Analysis of Complex Surveys C. J. Skinner, D. Holt, T. M. F. Smith, 1989-11-24 This study discusses appropriate principles and methods for the analysis of surveys such as stratified multi stage sampling as well as the complex structure of

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