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# Correcting for measurement error in assessing gestational age in a low-resource setting: a regression calibration approach

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**Introduction:** Measurement error in gestational age (GA) may bias the association of GA with a health outcome. Ultrasound-based GA is considered the gold standard and is not readily available in low-resource settings. We corrected for measurement error in GA based on fundal height (FH) and date of last menstrual period (LMP) using ultrasound from the sub-cohort and adjusted for the bias in associating GA with neonatal mortality and low birth weight ( $<2,500$  grams, LBW).

**Methods:** We used data collected from 01/2015 to 09/2019 from pregnant women enrolled at two public hospitals in Siaya county, Kenya ( $N = 2,750$ ). We used regression calibration to correct for measurement error in FH- and LMP-based GA accounting for maternal and child characteristics. We applied logistic regression to associate GA with neonatal mortality and low birth weight, with and without calibrating FH- and LMP-based GA.

**Results:** Calibration improved the precision of LMP (correlation coefficient,  $r$  from 0.48 to 0.57) and FH-based GA ( $r$  from 0.82 to 0.83). Calibrating FH/LMP-based GA eliminated the bias in the mean GA estimates. The log odds ratio that quantifies the association of GA with neonatal mortality increased by 29% (from  $-0.159$  to  $-0.205$ ) by calibrating FH-based GA and by more than twofold (from  $-0.158$  to  $-0.471$ ) by calibrating LMP-based GA.

**Conclusion:** Calibrating FH/LMP-based GA improved the accuracy and precision of GA estimates and strengthened the association of GA with neonatal mortality/LBW. When assessing GA, neonatal public health and clinical interventions may benefit from calibration modeling in settings where ultrasound may not be fully available.

## KEYWORDS

attenuation, fundal height, gestational age, last menstrual period, measurement error, preterm, regression calibration

# Measurement Regression And Calibration

**S Ashworth**



## **Measurement Regression And Calibration:**

**Measurement, Regression, and Calibration** Philip J. Brown, Professor Department of Statistics and Computational Mathematics P J Brown, 1993 The book starts with a range of examples and develops techniques progressively starting with standard least squares prediction of a single variable from another and moving onto shrinkage techniques for multiple variables Chapters 6 and 7 refer mostly to methods that have been specifically developed for spectroscopy The other chapters are quite general in their applicability Likelihood and Bayesian inference features strongly the latter allowing flexible analysis of a wide range of multivariate regression problems The last chapter presents some Bayesian approaches to pattern recognition For teaching purposes instructors may find particular chapters sufficiently self contained to recommend in isolation as reference or reading material For example chapter 4 gives an in depth development of a range of shrinkage techniques including partial least squares regression ridge regression and principal components regression together with discussion of the recently proposed continuum regression Chapter 8 on pattern recognition may also be of use by itself in courses on multivariate analysis and Bayesian Statistics Measurement Error in Nonlinear Models Raymond J. Carroll, David Ruppert, Leonard A. Stefanski, Ciprian M. Crainiceanu, 2006-06-21 It has been over a decade since the first edition of *Measurement Error in Nonlinear Models* splashed onto the scene and research in the field has certainly not cooled in the interim In fact quite the opposite has occurred As a result *Measurement Error in Nonlinear Models A Modern Perspective* Second Edition has been revamped and extended *Handbook of Measurement Error Models* Grace Y. Yi, Aureole Delaigle, Paul Gustafson, 2021-10-17 Measurement error arises ubiquitously in applications and has been of long standing concern in a variety of fields including medical research epidemiological studies economics environmental studies and survey research While several research monographs are available to summarize methods and strategies of handling different measurement error problems research in this area continues to attract extensive attention The *Handbook of Measurement Error Models* provides overviews of various topics on measurement error problems It collects carefully edited chapters concerning issues of measurement error and evolving statistical methods with a good balance of methodology and applications It is prepared for readers who wish to start research and gain insights into challenges methods and applications related to error prone data It also serves as a reference text on statistical methods and applications pertinent to measurement error models for researchers and data analysts alike Features Provides an account of past development and modern advancement concerning measurement error problems Highlights the challenges induced by error contaminated data Introduces off the shelf methods for mitigating deleterious impacts of measurement error Describes state of the art strategies for conducting in depth research **Regression Calibration and Maximum Likelihood Inference for Measurement Error Models** Vicente J. Monleon-Moscardo, 2005 Regression calibration inference seeks to estimate regression models with measurement error in explanatory variables by replacing the mismeasured variable by its conditional expectation given a surrogate variable in an

estimation procedure that would have been used if the true variable were available This study examines the effect of the uncertainty in the estimation of the required conditional expectation on inference about regression parameters when the true explanatory variable and its surrogate are observed in a calibration dataset and related through a normal linear model The exact sampling distribution of the regression calibration estimator is derived for normal linear regression when independent calibration data are available The sampling distribution is skewed and its moments are not defined but its median is the parameter of interest It is shown that when all random variables are normally distributed the regression calibration estimator is equivalent to maximum likelihood provided a natural estimate of variance is non negative A check for this equivalence is useful in practice for judging the suitability of regression calibration Results about relative efficiency are provided for both external and internal calibration data In some cases maximum likelihood is substantially more efficient than regression calibration In general though a more important concern when the necessary conditional expectation is uncertain is that inferences based on approximate normality and estimated standard errors may be misleading Bootstrap and likelihood ratio inferences are preferable

**Statistical Analysis with Measurement Error or Misclassification** Grace Y. Yi, 2017-08-02

This monograph on measurement error and misclassification covers a broad range of problems and emphasizes unique features in modeling and analyzing problems arising from medical research and epidemiological studies Many measurement error and misclassification problems have been addressed in various fields over the years as well as with a wide spectrum of data including event history data such as survival data and recurrent event data correlated data such as longitudinal data and clustered data multi state event data and data arising from case control studies Statistical Analysis with Measurement Error or Misclassification Strategy Method and Application brings together assorted methods in a single text and provides an update of recent developments for a variety of settings Measurement error effects and strategies of handling mismeasurement for different models are closely examined in combination with applications to specific problems Readers with diverse backgrounds and objectives can utilize this text Familiarity with inference methods such as likelihood and estimating function theory or modeling schemes in varying settings such as survival analysis and longitudinal data analysis can result in a full appreciation of the material but it is not essential since each chapter provides basic inference frameworks and background information on an individual topic to ease the access of the material The text is presented in a coherent and self contained manner and highlights the essence of commonly used modeling and inference methods This text can serve as a reference book for researchers interested in statistical methodology for handling data with measurement error or misclassification as a textbook for graduate students especially for those majoring in statistics and biostatistics or as a book for applied statisticians whose interest focuses on analysis of error contaminated data Grace Y Yi is Professor of Statistics and University Research Chair at the University of Waterloo She is the 2010 winner of the CRM SSC Prize an honor awarded in recognition of a statistical scientist's professional accomplishments in research during the first 15 years after having

received a doctorate She is a Fellow of the American Statistical Association and an Elected Member of the International Statistical Institute      *Encyclopedia of Epidemiologic Methods* Mitchell H. Gail, Jacques Benichou, 2000-11-02 Featuring articles from the prestigious Encyclopedia of Biostatistics many of which have been revised and updated to include recent developments the Encyclopedia of Epidemiologic Methods also includes newly commissioned articles reflecting the latest thinking in Cancer Registries Birth Defect Registries Meta Analysis of Epidemiologic Studies Epidemiology Overview Sample Size Sex Ratio at Birth Software Design and Analysis Featuring contributions from leading experts in academia government and industry the Encyclopedia of Epidemiologic Methods has been designed to complement existing texts on the subject by providing further extensive up to date coverage of specialised topics and by introducing the reader to the research literature Offering a wealth of information in a single resource the Encyclopedia of Epidemiologic Methods Offers an excellent introduction to a vast array of specialised topics Includes in depth coverage of the statistical underpinnings of contemporary epidemiologic methods Provides concise definitions and introductions to numerous concepts found in the current literature Uses extensive cross references helping to facilitate further research and enabling the reader to locate definitions and related concepts In addition to featuring extensive articles in the areas of descriptive and analytic epidemiology the Encyclopedia also provides the reader with articles on case control design and offers substantial coverage of allied statistical methods      *Journal of Dynamic Systems, Measurement, and Control* ,1997 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality      *Journal of the American Statistical Association* ,2007

**Snow Cover Measurements and Areal Assessment of Precipitation and Soil Moisture** Boris Sevruk,1992

Measurement Error in Nonlinear Models Raymond J. Carroll, David Ruppert, Leonard A. Stefanski, 1995-07-06 This monograph provides an up to date discussion of analysis strategies for regression problems in which predictor variables are measured with errors The analysis of nonlinear regression models includes generalized linear models transform both sides models and quasilielihood and variance function problems The text concentrates on the general ideas and strategies of estimation and inference rather than being concerned with a specific problem Measurement error occurs in many fields such as biometry epidemiology and economics In particular the book contains a large number of epidemiological examples An outline of strategies for handling progressively more difficult problems is also provided      **Proceedings of International Conference on Measurement of Soil and Plant Water Status: Soil** ,1987      *Technometrics* ,1996      The American Journal of Clinical Nutrition ,2003      **Density and Moisture Content Measurements by Nuclear Methods** L. F. Ballard, Robin P. Gardner, 1965 Data is provided from an evaluation of the accuracy of the nuclear gages in comparison with the currently used non nuclear methods of determining soil density and moisture content The research study was principally

theoretical in nature and was conducted in two parts with each part respectively considering density and moisture content Two existing commercial gages were evaluated and a nominal experimental program employing non soil standards of known density and composition was conducted to verify the density results The results of the moisture content study were checked against data in the literature

**Multivariate Calibration** Harald Martens, Tormod Næs, 1992-08-07 Multivariate Calibration Harald Martens Chemist Norwegian Food Research Institute Aas Norway and Norwegian Computing Center Oslo Norway Tormod Næs Statistician Norwegian Food Research Institute Aas Norway The aim of this interdisciplinary book is to present an up to date view of multivariate calibration of analytical instruments for use in research development and routine laboratory and process operation The book is intended to show practitioners in chemistry and technology how to extract the quantitative and understandable information embedded in non selective overwhelming and apparently useless measurements by multivariate data analysis Multivariate calibration is the process of learning how to combine data from several channels in order to overcome selectivity problems gain new insight and allow automatic outlier detection Multivariate calibration is the basis for the present success of high speed Near Infrared NIR diffuse spectroscopy of intact samples But the technique is very general it has shown similar advantages in for instance UV Vis and IR spectrophotometry transmittance reflectance and fluorescence for x ray diffraction NMR MS thermal analysis chromatography GC HPLC and for electrophoresis and image analysis tomography microscopy as well as other techniques The book is written at two levels the main level is structured as a tutorial on the practical use of multivariate calibration techniques It is intended for university courses and self study for chemists and technologists giving one complete and versatile approach based mainly on data compression methodology in self modelling PLS regression with considerations of experimental design data pre processing and model validation A second more methodological level is intended for statisticians and specialists in chemometrics It compares several alternative calibration methods validation approaches and ways to optimize the models The book also outlines some cognitive changes needed in analytical chemistry and suggests ways to overcome some communication problems between statistics and chemistry and technology

**Estimating Treatment Effect in the Presence of Noncompliance Measured with Error** Leslie Anne Kenna, 2001

*Process, Equipment, and Materials Control in Integrated Circuit Manufacturing*, 1996

**Current Index to Statistics, Applications, Methods and Theory**, 1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields

*Modeling the Measurement Error of Apnea-hyponea Index* Liang Li, 2003

**Handbook of Organic Compounds: Methods and interpretations** Jerry Workman, 2001 For students and vibrational spectroscopists working in molecular spectroscopy labs and dealing daily with spectral interpretation and data processing of organic spectra polymers and surfactants This three volume compendium contains detailed descriptions and reviews of ultraviolet visible near infrared Raman and dielectric measurement techniques as well as interpretive techniques and information on all spectra which are presented in terms of wavenumber and

transmittance Ultraviolet visible 4th overtone NIR 3rd overtone NIR and NIR spectra are also presented in terms of nanometers and absorbance space and horizontal ATR spectra are presented in terms of wavenumber and absorbance space The spectra found here are useful for identification purposes as well as for instruction in the various interpretive and data processing techniques discussed Editor Workman is employed at Kimberly Clark Corporation c Book News Inc

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