

CURRICULUM VITAE

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EDUCATION: High School: Artesia High School
Artesia, New Mexico, 1965

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B.S., Physical Education, 1970

Graduate School: Baylor University
M.S., Physical Education, 1974

Graduate School: Baylor University
M.S., Mathematics, 1975

Graduate School: University of Texas at Dallas
M.S., Mathematical Sciences, 1979

Graduate School: University of Texas at Dallas
Ph.D., Mathematical Sciences, 1981

Ph.D. DISSERTATION TITLE: An Application of the Singular Value Decomposition to Linear Feature Selection

EXPERIENCE:

1971 to 1973: Mathematics Teacher, Artesia High School
1975 to 1979: Graduate Teaching Assistant, University of Texas at Dallas
1980 to 1985: Assistant Professor of Quantitative Business Analysis, Hankamer School of Business, Baylor University
1985 to 1989: Associate Professor of Quantitative Business Analysis, Hankamer School of Business, Baylor University
1989 to 2004: Ben Williams Professor of Quantitative Business Analysis, Hankamer School of Business, Baylor University
2004 to 2008: Professor of Statistics, Department of Statistical Science, Baylor University

CONSULTING EXPERIENCE:

Docutel Corporation

PROFESSIONAL ORGANIZATION MEMBERSHIPS:

American Statistical Association
Society of Industrial and Applied Mathematics
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SPECIAL HONORS:

Top Student in the School of Arts and Sciences, Texas Tech University, 1968-1969
Distinguished Professor of Hankamer School of Business, 1985
Ben Williams Professorship in Quantitative Business Analysis, 1987
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Distinguished University Scholar, Baylor University, 1995
University Outstanding Researcher Award, Baylor University, 1997

REFEREED PUBLICATIONS:

- Austin L. Hand, James D. Stamey, and Dean M. Young (2011). Bayesian Sample-Size Determination for Two Independent Poisson Rates. To appear in *Methods and Programs in Biomedicine*.
- Rahardja, D. and Young, D.M. (2011). Likelihood-Based Confidence Intervals for the Risk Ratio Using Double Sampling with Over-Reported Binary Data. *Computational Statistics & Data Analysis* **1**, 813-823.
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BOOK REVIEWS

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NON-REFEREED PUBLICATIONS

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PAPERS SUBMITTED FOR PUBLICATION:

- Turner, D.W., Stamey, J.D., and Young, D.M., (2007). Classic Group Testing with Cost for Grouping and Testing. Submitted to *Mathematics and Computer Modeling.*
- Young, D.M., Stamey, J.D., and Guardiola, J. (2007). Covariance Matrices Such that the Least Squares Estimator is the Best Linear Unbiased Estimator. Submitted to *International Journal of Mathematical Education in Science and Technology .*

Young, D.M., Meaux, L.M., and Seaman, J.W., Jr. (2007). Relationships Between Covariance Structures of Normal Random Vectors and Quadratic Forms Distributed as Chi-Squared Random Variables. Submitted to *Sankhya*.

Davis, W., Thompson, L.A., Hill, J.S., and Young, D.M. (2007). A Comparison of Regularization Methods for the Linear Discriminant Function. Submitted to *Journal of Statistical Computation and Simulation*.

Ounpraseuth, S. and Young, D.M. A Comparison of Multiple and Single Imputation Algorithms for Missing Data in Anderson's Linear Discriminant Function. Submitted to *Communications in Statistics-Theory and Methods*.

GRANT PROPOSALS:

Sample Size Determination for Dollar-value LIFO Inventory Valuation. A research program for the Arthur Young Tax Research Grant Program, 1985.

An Aid to the Assessment of Inherent Risk by Auditors. A research proposal for the Peat, Marwick, Mitchell & Co. Research Opportunities Program, 1985.

Representation of High Dimensional Data in Low Dimensional Subspace. An NSF grant proposal, 1985.

LECTURES AND PRESENTATIONS:

A More Computationally Efficient Model Selection Method for Regularized Discriminant Analysis. Co-authored with John Ramey, 2010.

A Comparison of Multiple and Single Imputation Algorithms for Missing Data in Quadratic Discriminant Function. Co-authored with Page C. Moore and Songthip Ounpraseuth, 2008.

Bayesian Analysis for the Difference of Two Poisson Rates with Data Subject to Under-Reporting. Presented at the Joint Statistical Meetings. Co-authored with Brandi A. Greer and James D. Stamey, 2008.

- A Bayesian Test for Binary Outcomes in Fixed-Dose Combination Drug Studies. Presented at the Joint Statistical Meetings. Co-authored with Melinda Holt, James D. Stamey, and John W. Seaman, Jr., 2005.
- A Distribution-Free Bayesian Min Test For Binary Outcomes in Fixed-Dose Combination Drug Studies. Presented at ENAR. Co-authored with Melinda Holt, James D. Stamey, and John W. Seaman, Jr., 2004.
- Empirical Bayes and Bayes Prediction of Finite Population Total Using Auxiliary Information," Texas Section Mathematical Association of America, Huntsville, Texas. Co-authored with Mark S. Hamner, and John W. Seaman, Jr., 2003.
- Bayesian Estimation of a Poisson-Multinomial Distribution with Ununderreoprting. Presented at the Joint Statistical Meetings. Co-authored with James D. Stamey, 2002.
- Bayesian Methods in finite population prediction. *Proceedings of the American Statistical Association, Section on Survey Research Methods* [CD-ROM], Atlanta, Georgia: American Statistical Association, Co-authored with Hamner, M. S., Seaman J. W., 2002
- A Comparison of Regularization Methods for the Linear Discriminant Function. Presented at the Joint Statistical Meetings. Co-authored with Laura A. Thompson, 2000.
- A Bayesian Analysis of Mislabeling of Training Observations in Linear Discriminant Analysis. Presented at the Joint Statistical Meetings. Co-authored with Laura A. Thompson, 1999.
- Nonnegative-Definite Independence Distribution Preserving Covariance Structures for the Sample Covariance matrix. Presented at the Joint Statistical Meetings. Co-authored with Danny W. Turner, 1998.
- A Comparison of Regularized Statistical Discrimination Methods for the Quadratic Discriminant Function. Presented at the Joint Statistical Meetings. Co-authored with Laura Thompson, 1998.
- A Comparison of Parametric-Based Error Rate Estimators for the Two-Population Linear Discriminant Function. Presented at Southwest Decision Sciences Meeting. Co-authored with Laurie M. Meaux and John W. Seaman, Jr, 1997.
- Positive-Definite Independence Distribution-Preserving Joint Covariance Structures for the Two Population Case. Presented at the Joint Statistical Meetings. Co-authored with Danny W. Turner, 1996.

- Nonnegative-Definite Independence Distribution Preserving Covariance Structures for the Sample Covariance Matrix. Presented at the Joint Statistical Meetings, 1995.
- On a More Efficient Method of Quadratic Logistic Discrimination. Presented at the South-Central Regional SAS User's Group Conference. Co-authored with Samuel L. Seaman, 1994.
- Independence-Distribution Preserving Nonnegative-Definite Covariance Structures for the Sample Variance. Presented at the Joint Statistical Meetings, 1994. Co-authored with Laurie M. Meaux and Leah Lehman.
- A Comparison of Parametric-Based Conditional Error Rate Estimators for the Two-Population Linear Discriminant Function. Presented at the Joint Statistical Meetings, 1994. Co-authored with Laurie M. Meaux and John W. Seaman, Jr.
- A Kolmogorov Inequality for Partial Sums of Independent Bernoulli Random Variables with Unequal Means. Presented at the Joint Statistical Meetings, 1993. Co-authored with Danny W. Turner and John W. Seaman.
- Probability Inequalities for the Sum of Certain Discrete Unimodal random variables when Sampling Without Replacement. Presented at the IMS-ASA-ENAR Spring Statistics Meeting, 1992. Co-authored with Sharon Navard and John W. Seaman, Jr.
- A Probability Inequality for Sums of Independent Bernoulli Random Variables. Presented at the Joint Statistical Meetings, 1991. Co-authored with Danny W. Turner and John W. Seaman, Jr.
- A Bias-Corrected Maximum Posterior-Probability Estimator of the Conditional Error Rate of the Sample Linear Discriminant Function. Presented at the 22nd Meeting of the Interface Between Statistics and Computing Science, 1991. Co-authored with John W. Seaman, Jr.
- Evaluating Fuzzy Methods. Presented at the 21st Meeting of the Interface Between Statistics and Computing Science, 1991. Co-authored with John W. Seaman, Jr.
- A Note on the Stochastic Ordering of Order Statistics. Presented at the Central Meeting of the Institute of Mathematical Statistics, Houston, Texas, 1991. Co-authored with Sharon E. Navard and John W. Seaman, Jr.
- A Kolmogorov Inequality for Partial Sums of Independent Bernoulli Random Variables. Presented at the Regional Meeting of the Mathematical Association of America, 1991. Co-authored with Danny W. Turner and John W. Seaman, Jr.

- A Power Comparison of Eight Test Statistics for Detecting Nonnormality. Presented at the Seventeenth Annual Meeting of the Southwestern Federation of Administration Disciplines, 1990. Co-authored with Samuel L. Seaman.
- A Kolmogorov Inequality for sums of Bernoulli Random variables with Unequal Means. Presented at the Annual Meeting of the Texas Academy of Science, 1990. Co-authored with Danny W. Turner and John W. Seaman, Jr.
- An Empirical Comparison of Variable Selection Techniques Applied to Bankruptcy Prediction Models. Presented at the Nineteenth Annual Meeting of the Western Decision Sciences Institute, 1990. Co-authored with Samuel L. Seaman.
- An Empirical Comparison of Variable Selection Techniques Applied to Bankruptcy Prediction Models. Presented at the Western Decision Sciences Meeting, 1990. Co-authored with Jane Baldwin and Samuel L. Seaman.
- A Nonparametric Variable-Selection Algorithm for Allocatory Quadratic Discriminant Analysis. Presented at Interface '90, 1990. Co-authored with John W. Seaman, Jr. and Samuel L. Seaman.
- An Improved Maximum Posterior-Probability Estimator of the Conditional Error Rate of the Sample Linear Discriminant Function. Presented at Interface '90, 1990. Co-authored with Samuel L. Seaman and John W. Seaman, Jr.
- A Computational Algorithm for Generating Covariance Matrices with Specified Departures from Sphericity. Presented at the Statistical Computation Conference, 1990. Co-authored with John Cornell and Tom Bratcher.
- Power and Robustness of Tests for Sphericity. Presented at the 98th Annual convention of the American Psychological Association, 1990. Co-authored with John Cornell, Roger Kirk, and Samuel L. Seaman.
- A Test for Multivariate Normality within the θ -Generalized Normal Family. Presented at the Winter Conference of the American Statistical Association, 1989. Co-authored with Virgil R. Marco.
- Nonparametric Variable Selection for the Linear Discriminant Function. Presented at the Texas Academy of Science, 1989. Co-authored with Samuel L. Seaman.
- A Kolmogorov Inequality for the Binomial Distribution. Presented at the Texas Academy of Science, 1989. Co-authored with Danny W. Turner and John W. Seaman, Jr.

- Efficient Generation of Exponential Power Variates. Presented at the 16th Annual Meeting of the Southwest Federation of Administrative Disciplines, 1989. Co-authored with Danny W. Turner and John W. Seaman, Jr.
- A Nonparametric Backward Elimination Algorithm for Variable Selection in Allocatory Discriminant Analysis. Presented at the 16th Annual Meeting of the Southwest Federation of Administrative Disciplines, 1989. Co-authored with Samuel L. Seaman.
- A Monte Carlo Test of the Robustness of Parametric and Nonparametric ANCOVA Against Conditional Non-normality and Heterogeneity of Variances. Presented at Western Decision Science Institute, 1989. Co-authored with Samuel L. Seaman.
- Simulation-Based Critical Values for the Lagrange-Multiplier Test for Normality Within the Exponential Power Family. Presented at Western Decision Sciences Institute, 1989. Co-authored with Samuel L. Seaman.
- On the Practice of Quality Control in Small Manufacturing Firms. Presented at Western Decision Sciences Institute, 1989. Co-authored with Van Gray and Samuel L. Seaman.
- Evaluation of Expert Systems. Presented at the International Conference on Computing and Information, 1989. Co-authored with Patrick L. Odell.
- A Comparison of the Linear, Logistic, and Quadratic Discriminant Functions in Bankruptcy Prediction. Presented at the National Meeting of the Decision Sciences Institute, 1989. Co-authored with Jane Baldwin and Samuel L. Seaman.
- On the Robustness and Power of Parametric and Rank ANCOVA Against Conditional Nonnormality and Heterogeneity of Variances. Presented at the Joint Statistical Meetings, 1989. Co-authored with Samuel L. Seaman.
- A Lagrange-Multiplier Test for Univariate Normality Within the Skew Exponential-Power Family of Distributions. Presented at the Joint Statistical Meetings, 1989. Co-authored with Samuel L. Seaman.
- On Sufficient Conditions for Pitman Nearness. Presented at the Joint Statistical Meetings of the American Statistical Association, 1989. Co-authored with John W. Seaman, Jr.
- Multivariate Versions of Grubbs' Test and Bartlett's Test Without the Usual Independence Assumptions. Presented at the Decision Sciences Institute Annual Meeting, 1989. Co-authored with Robert Pavur.

- Error-Rate Estimation for the Sample Linear Discriminant Function. Presented at the Joint Statistical Meetings of the American Statistical Association, 1988. Co-authored with Frank Wyman.
- An Efficient Algorithm for Variable Selection in Allocatory Discriminant Analysis. Presented at the Joint Statistical Meetings, 1988. Co-authored with Samuel L. Seaman.
- An Efficient Algorithm for Variable Selection in Allocatory Discriminant Analysis. Presented at the Annual Meeting of the Southwest Decision Sciences Institute, 1988. Co-authored with Samuel L. Seaman,
- On the Choice of p in the Unrelated-Question Randomized Response Model. Presented at the Annual Meeting of the Western Decision Sciences Institute, 1988. Co-authored with Michael Tuley and Samuel L. Seaman.
- On the Sensitivity to Nonnormality of Wilks' Test for a Single Multivariate Outlier Against Heavy-Tailed Distributions. Presented at the National Meeting of the Decision Sciences Institute, 1988. Co-authored with Samuel L. Seaman.
- A Note on a Kolmogorov Inequality for the Binomial Distribution. Presented at the Texas Section of the Mathematics Association of America, 1988. Co-authored with Danny W. Turner and John W. Seaman, Jr.
- Low-Dimensional Representation of High-Dimensional Data From Multiple Populations with Unequal Covariance Matrices. Presented at the SAS Users Group International Meeting, 1987. Co-authored with Virgil R. Marco.
- A Comparison of Linear Asymptotic Expansions for the Expected Probability of Misclassification in Discriminant Analysis. Presented at the Texas Academy of Science, 1987. Co-authored with Virgil R. Marco.
- Probability Inequalities for Bounded Continuous Unimodal Distributions with Applications. Presented at the Texas Academy of Science, 1987. Co-authored with Danny W. Turner and John W. Seaman, Jr.
- An Algorithm for Allocatory Variable Selection in Linear Discrimination. Presented at the Texas Academy of Science, 1987. Co-authored with Samuel L. Seaman.
- Predictive Discrimination of an Autoregressive Time Series. Presented at Central Regional Meeting of the Biometric Society, 1987. Co-authored with Virgil R. Marco.
- Estimation and Prediction in a Semi-Markov Evasive Motion Model. Presented at the Joint Statistical Meetings, 1987. Co-authored with Danny W. Turner and Virgil R. Marco.

- The Misapplication of Observational Data: An Example and Alternative Approach. Presented at the Joint Meetings of the American Statistical Association, 1987. Co-authored with Johnathon Trower and Kris K. Moore.
- An Analysis of Covariance of Salary Levels for Male and Female Managers. Presented at the Joint Meetings, 1987. Co-authored with Kris K. Moore.
- A Comparison of Asymptotic Error Rate Expansions for the Linear Discriminant Function. Presented at the Joint Meetings, 1987. Co-authored with Virgil R. Marco
- A Low-Dimensional Representation for Comparing Multivariate Samples. Presented at the Joint Meetings, 1987. Co-authored with Virgil R. Marco.
- Sample-Size Selection for LIFO Index Estimation. Presented at the 1987 Annual Meeting of the Decision Sciences Institute, November 1987. Co-authored with Fred Hulme.
- An Alternative Approach to the Inventory Reorder Point Problem. Presented and the Joint National Meeting of TIMS/ORSA, October 1987. Co-authored with Candice Hamner.
- A Comparison of Shrinkage Estimators of the Covariance Matrix in Quadratic Discrimination. Presented at the Classification Society Meetings, 1985. Co-authored with Rodger Peck.
- On Error Rates for Two-Population Quadratic Discrimination with Known Parameters. Conference on Mathematics and Statistics in Aerospace, Industry, and Medical Science, 1985. Co-authored with Virgil R. Marco.
- Computer System Performance Evaluation Using Polyhedron Graphs. Presented at the Texas Academy of Science, 1985. Co-authored with John W. Seaman, Jr. and Danny W. Turner.
- An Upper Bound on the Error Rate of the Quadratic Discriminant Function. Presented at the Texas Academy of Science, 1985. Co-authored with Virgil R. Marco.
- Improving Small Sample Variance Estimators for Bounded Random Variables. Presented at the Texas Academy of Science, 1985. Co-authored with John W. Seaman, Jr.
- On Error Rates for Quadratic Discrimination. Presented at the Joint Meetings of Southwest Decision Sciences, 1985. Co-authored with Virgil R. Marco.

On the Robustness of Wilks' Test for Multivariate Outliers. Presented at the Joint Meetings of Southwest Decision Sciences, 1985. Co-authored with Danny W. Turner and Virgil R. Marco.

On the Expected Error Rate for the Euclidean Distance Classifier. Presented at Texas Academy of Science, 1984. Co-authored with Virgil R. Marco.

On Extensions of the Euclidean Distance Classifier, presented at Texas Academy of Sciences, San Antonio, Texas, 1984. Co-authored with Virgil R. Marco.

Linear Feature Selection for Predictive Classification. Presented at the Joint Statistical Meetings, Toronto, Canada, 1983. Co-authored with Virgil R. Marco and Patrick L. Odell.

A Nonparametric Approach to Times Series Discrimination. Presented at the 1980 International Time Series Conference, Houston, Texas, 1981. Co-authored with Linda W. Jennings.

Feature Selection in Pattern Classification. Presented at Texas Academy of Sciences, Austin, Texas, 1980. Co-authored with Patrick L. Odell.

Nonparametric CUSUM approach to Quality Control. Presented at the Waco chapter meeting of the Society for Quality Control, 1980.

INVITED PRESENTATIONS:

Everything You Wanted to Know About Research in Statistics OR What They Don't Tell You in Graduate School. Presented at the Research Colloquium, University of Southwestern Louisiana, 1986.

Variance Bounds and Their Applications. Presented at the Joint Meetings of the Institute of Mathematical Statistics, 1987.

Variance Bounds for Continuous Unimodal Random Variables with Finite Support with Applications. Presented at the North Texas Chapter of the American Statistical Association, April 1987.

How to Identify Research Problems in Mathematical Statistics or Stuff They Don't Tell You at the Big U. Presented at the Patrick L. Odell Research Seminar at Sam Houston State University, 1992.

ASSOCIATE EDITORSHIPS:

Associate editor of *Pattern Recognition*, 1989 - 1998

JOURNAL REFEREE:

Journal of Multivariate Analysis

Pattern Recognition

Pattern Analysis and Machine Intelligence

Texas Journal of Science

Statistics and Probability Letters

Biometrics

Communications in Statistics: Theory and Methods

Communications in Statistics: Simulation and Computation

Annals of the Institute of Statistical Mathematics

SIAM

PROCEEDINGS REFEREE:

Southwest Decision Sciences Institute

National Decision Sciences

MASTERS THESIS DIRECTED:

Karin Ernstrom (2002).

DOCTORAL DISSERTATIONS DIRECTED:

Frank J. Wyman, (1987). A Comparative Study of Expressions for the Approximation and Estimation of Probabilities of Misclassification in Discriminant Analysis.

Leah M. Lehman (1993). Solutions of Matrix Equations and Distributions of Standard, Generalized, and Pseudo Quadratic Forms.

- Augustin Navarra (1995). Representations of Common Solutions to Certain Systems of Matrix Equations.
- Laura A. Thompson (1999). A Bayesian Analysis of Mislabeling of Training Observations in Linear Discriminant Analysis
- Peter Chen (2001). Error Rate approximation and Estimation for the Linear Discriminant Function for the Small Training sample size case.
- Doyle H. Boese (2003). Likelihood-Based Confidence Intervals for Proportion Parameters with Binary Data Subject to Misclassification
- Marsha M. Young (2003). Contributions to the Theory of quadratic Form and Generalized Quadratic Forms in Normal Random Matrices.
- Hassan Elsallhouk (2004). The Epsilon Skew-Exponential Power Distribution Family.
- Kent E. Riggs (2006). Maximum-Likelihood-Based Confidence Regions and Hypothesis Tests for Selected Statistical Models
- Songthip T. Ounpraseuth (2006). Contributions to Dimension Reduction and Other Topics in Statistical Discriminant Analysis
- Brandi A. Greer (2008). Bayesian and Pseudo-Likelihood Interval Estimation Comparing Two Poisson Rates Using Underreported Data

COURSES TAUGHT

SUBJECT	LEVEL	INSTITUTION
Mathematics for Consumers	undergraduate	El Centro Junior College
Statistics for Nurses	undergraduate	Richland Junior College
Linear Algebra	undergraduate	University of Texas at Dallas
Algebra and Trigonometry	undergraduate	Baylor University
Business Math	undergraduate	Baylor University
Introductory Information Systems	undergraduate	Baylor University
COBOL Programming	undergraduate	Baylor University
Quantitative Literacy	undergraduate	Baylor University
Elementary Statistical Methods	undergraduate	Baylor University
Statistical Methods	undergraduate	Baylor University
Calculus I	undergraduate	Baylor University
Intermediate Statistical Methods	undergrad, graduate	Baylor University

Statistical Methods	undergrad, graduate	Baylor University
Operations Management	undergrad, graduate	Baylor University
Mathematical Statistics	graduate	Baylor University
Multivariate Methods	graduate	Baylor University
Multivariate Analysis	graduate	Baylor University
Advanced Multivariate Analysis	graduate	Baylor University
Advanced Statistical Inference	graduate	Baylor University
Asymptotic Statistical Inference	graduate	Baylor University
Computational Statistics	graduate	Baylor University
Linear Models	graduate	Baylor University
Survival Analysis	graduate	Baylor University