

Curriculum Vitae

Donald E. Ramirez
Emeritus Professor
Department of Mathematics
University of Virginia

PERSONAL

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EDUCATION

1963 Bachelor of Science, Tulane University, New Orleans, Louisiana
1966 Ph.D. in Mathematics, Tulane University, New Orleans, Louisiana

SPECIAL AREAS OF INTEREST

Mathematical Statistics and Abstract Harmonic Analysis

AWARDS AND INVITED ADDRESSES

1963 Woodrow Wilson Fellow
1963 NSF Graduate Fellowship, Tulane University
1966-67 Office of Naval Research Associate, University of Washington
1967 Assistant Professor, University of Virginia
1969 Colloquium, Wesleyan University
1969 Invited Speaker, Harmonic Analysis Conference, Oberwolfach, Germany
1971 Sesquicentennial Associate of the Center for Advanced Studies, University of Virginia
1971 Invited Speaker, International Conference on Harmonic Analysis, University of Maryland
1971 Associate Professor, University of Virginia
1973 Invited Speaker, AMS Conference on Harmonic Analysis, Evanston, Illinois
1973 Invited Speaker, AMS Conference on Topological Semigroups, San Francisco, California
1974 Invited Speaker, Special Functions Conference, Virginia Polytechnic Institute and State University
1975 Invited Speaker, Symposium in Memory of Pasquale Porcelli, University of Houston
1975 Invited Speaker, Research Workshop on Almost Periodicity, Virginia Commonwealth University
1975 Editor, Semigroup Forum
1976 Invited Speaker, AMS Special Session on Harmonic Analysis, Rome, Italy
1976 Editor, Semigroup Forum
1980 Invited Speaker, AMS Special Session on Harmonic Analysis, Evanston, Illinois
1980 Editor, Semigroup Forum
1981 Invited Speaker, AMS Conference on Harmonic Analysis, Pittsburgh, Pennsylvania
1981 Invited Speaker, International Conference on Semigroup, Szeged, Hungary
1981 Invited Speaker, Semigroup Conference, Oberwolfach, Germany
1981 Editor, Semigroup Forum

1982 Editor, Semigroup Forum
1983 Director of the Statistics Forum, University of Virginia
1983 Vice-Chairman of the Virginia Academy of Science Statistics Council, the Virginia Chapter of the American Statistical Association
1983 Editor, Semigroup Forum
1984 Panelist, Virginia Academy of Science, Richmond, Virginia on "What Statistics Courses Should be taught at the Undergraduate and Master's Levels?"
1984 Invited Speaker, Virginia Chapter of the ASA, Richmond, Virginia.
1984 Invited Commencement Speaker, 25th Graduating Class of the Benjamin Franklin Senior High School, New Orleans, Louisiana
1984 Director of the Statistics Forum, University of Virginia
1984 Invited Participant, Symposium on Harmonic Analysis on Semigroups, Virginia Commonwealth University
1984 Vice-Chairman of the Virginia Academy of Science Statistics Council
1984 Vice-President of the Virginia Chapter of the American Statistical Association
1984 Editor, Semigroup Forum
1985 Invited Speaker, Pennsylvania State University
1985 Invited Speaker, Virginia Chapter of the ASA, Williamsburg, Virginia
1985 Invited Panelist on Statistics Education, Annual Meeting of the American Statistical Association, Las Vegas
1985 Editor, Semigroup Forum
1986 Sesquicentennial Associate of the Center for Advanced Studies, University of Virginia
1986 Editor, Semigroup Forum
1986 Invited Speaker, Advanced Symposium on Multivariate Statistical Modeling and Data Analysis, James Madison University
1986 Invited Speaker, Statistical Modeling and Model Evaluation, Annual Meeting of the Psychometric Society, Toronto, Canada
1987 Editor, Semigroup Forum
1987 Invited Speaker, Conference on Algebraic Theory of Semigroups and Applications, Vienna, Austria
1988 Acting Director, Statistics Forum, University of Virginia
1988 Invited Speaker, University of Colorado
1988 Invited Speaker, Virginia Tech
1988 Editor, Semigroup Forum
1989 Invited Participant, Conference on Modern Computer Intensive Methods for Exploring and Modeling Multivariate Data, George Washington University
1990 Invited Participant, NSF Summer Workshop on Statistical Process Control Techniques, University of Tennessee
1991 Sesquicentennial Associate for the Center for Advanced Studies, University of Virginia
Invited Speaker, Virginia Tech
1991 Virginia Academy of Sciences Representative to the American Statistical Association
1992 Invited to the International Conference in Modern Analysis and Applications, New Delhi
1993 Invited Speaker, Medical College of Virginia
1993 Invited Participant, National Center for Education Statistics Conference on Longitudinal Study of Teacher Supply, Demand, and Quality, Washington, DC
1995 Invited Speaker, Session on Recent Advancements in Multivariate Statistics, Southern Research Council on Statistics (SRCOS/ASA), Melbourne, Florida

1995 Invited Speaker, University of Edinburgh, Scotland
1996 Full Professor, University of Virginia
1996 Invited speaker, Symposium on Computational Statistics, Barcelona, Spain
1996 Invited speaker, annual meeting of the Northeast and Mid-Atlantic Regions of the North American Association of Summer Session, Charlottesville, VA
1996 President of the Virginia Academy of Science Statistics Section
1997 Colloquium speaker, Virginia Tech
1997 Contributed paper, Symposium on Computing Science and Statistics, Houston, Texas
1997 Contributed paper, Virginia Academy of Science Statistics Section and the Virginia Chapter of the American Statistical Association, Blacksburg, VA
1997 President of the Virginia Academy of Science Statistics Section
1997 Sesquicentennial Associate of the Center for Advanced Studies
1998 UVa USEM Summer Research Grant
1999 Invited reviewer of the statistics program at Mary Immaculate College, Limerick

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Statistical Association
Virginia Academy of Science

UNIVERSITY SERVICE

1999-2000 Chair, College Committee Education Policy and the Curriculum
1999-2000 Steering Committee, Center for Science, Mathematics and Engineering Education
1998-2007 Actuarial Major Advisor
1996-2007 Chair, Faculty Advisory Committee for the Summer Session
1995-2005 College Committee Education Policy and the Curriculum
1982-2007 Faculty Advisory Committee on the Summer Session
1980-2007 Summer Chairman, Department of Mathematics, University of Virginia
1990-2008 University Faculty Associate
1988 Acting Director of the University of Virginia's Statistics Forum
1986 Faculty Advising Committee to the U.Va. Honor Committee
1980-85 Director of Undergraduate Studies in Mathematics
1985 Member of the Honor Committee's Faculty Advisory Panel
1984 Member of the Dean of the Faculty's Committee on Cheating and Plagiarism
1982-84 Director of the University's Statistics Forum
1982-83 Associate Provost's Computer Action Group
1982-83 President's Council on Academic Computing
1981 University's Computer Committee
1976-81 President's Procession Committee
1973-74 Steering Council of the Learning Enrichment Program

DEPARTMENTAL SERVICE

2012-present Directory of Undergraduate Studies in Mathematics
2007-2010 Chair, Mathematics Department
1999-2007 Associate Chair, Mathematics Department
1996-2007 Mathematics Department Actuarial Major Advisor
1996-2007 Mathematics Department Lower Division Committee
1996-2007t Mathematics Department Computer Committee

1992-2007 Mathematics Department Transfer Credit Advisor
1981 Organized the Scientific Computing Minor
Designed the Mathematics Department course evaluation and software
Instrumental in introducing MATH 105, 112, 200, 205, 206, 512, 513

ACADEMIC SERVICE

1996-1997 President of the Virginia Academy of Science Statistics Section
1989-91 VAS Representative to the American Statistical Association
1985-86 Counselor to the American Statistical Association
1986 Board Member, Virginia Academy of Science
1986 Member, American Statistical Association Subcommittee on Undergraduate Programs in Statistics
1974-88 Editor, Semigroup Forum
1983-85 Vice-President, Virginia Chapter of the A.S.A.
1983-85 Vice-President, Statistics Chapter of the V.A.S.

HONORS

1972 Sesquicentennial Associate of the Center for Advanced Studies
1986 Sesquicentennial Associate of the Center for Advanced Studies
1991 Sesquicentennial Associate of the Center for Advanced Studies
1997 Sesquicentennial Associate of the Center for Advanced Studies
2010 Sesquicentennial Associate of the Center for Advanced Studies

RECENT RESEARCH SUPPORT

1983-84 Funds for Excellent Project, Virginia State Council of Higher Education
1985-86 Biomedical Research Support Grant (BRSB) No. 5-24867 at the University of Virginia

COMPUTER EXPERIENCE

Proficient in BASIC, FORTRAN, Pascal, C, SPSS, BMDP, SAS
Published BASIC Programs:
LINPRO - a linear programming algorithm published in the Hewlett-Packard contributed software library
SIMP - an algorithm for solving simplex tableaux, matrix games, and best-fit of linear equations published in the Hewlett-Packard contributed software library
Published FORTRAN Programs
BFSOLV - an algorithm to compute the adjusted likelihood ratio test for the Behrens-Fisher problem
UTRANS - an algorithm to convert skewed multivariate data to nearly normal data
MTRANS - an algorithm to convert skewed multivariate data to nearly normal data jointly
FACAIC - an algorithm to find the number of factors in a factor analysis model using information criteria
FSCORE - an algorithm to compute factor scores
SMOOTH - an algorithm to smooth data with monotone splines
QPOWER - an algorithm to convert data to nearly quadratic data
T2BNDSS - an algorithm to compute descriptive levels for Hotelling's T2 under misspecification
ELLPTIC - an algorithm to compute the mean radius and surface measure of an ellipsoid

GRADUATE STUDENTS

Masters of Arts

1968 Catherine Bobzien

1970 David Copper

Masters of Science (with a concentration in Statistics)

1983 Elizabeth Claus

1986 Larry Bobbitt

1986 Jeffrey Tucker

1988 Mary Ann Duchna

1988 Clark Gaylord

Doctor of Philosophy

1970 Joseph Kent (with James England)

BIOMEDICAL CONSULTING EXPERIENCE

Dr. Harold Wanebo, M.D.

Department of Internal Medicine

University of Virginia Medical Center

Charlottesville, Virginia 22908

(a) Parametric Weibull model for censored cancer data

(b) Discriminant analysis on cancer patients

(c) Multiple comparisons of responses in a block design model

Dr. R. Brent Harrison, M.D.

Department of Radiology

University of Virginia Medical Center

Charlottesville, Virginia 22908

(a) Quantile estimation of censored data

Dr. Richard Lees, M.D.

Department of Radiology

University of Virginia Medical Center

Charlottesville, Virginia 22908

(a) Estimation of liver volume using cross-sectional ultrasonic images

(b) Prediction of liver volume from age, sex, height, and weight measurements

Dr. Wallace C. Nunley, M.D.

Department of Obstetrics and Gynecology

University of Virginia Medical Center

Charlottesville, Virginia 22908

(a) Regression models for clomiphene citrate

Ms. Elizabeth Woodruff

Penn, Stuart, Eskridge, and Jones

P.O. Box 749

Abingdon, Virginia 24210

(a) Comparison of two different techniques for measuring arterial blood gas values in coal miners

Dr. Robert S. Brown, M.D.
Department of Psychiatry
University of Virginia Medical Center
Charlottesville, Virginia 22908

- (a) Factor analysis of the Zung depression inventory
- (b) Study of the role of exercise in the treatment of depression in college-age patients
- (c) Designed the computer-aided test program for EDHS 482

MILITARY CONSULTING EXPERIENCE

Mr. Elden Wright
General Research Corporation
7655 Old Springhouse Road
McLean, Virginia 22102
(a) Officer Projection Aggregate Level System (9/86 - 9/87)

INDUSTRIAL EXPERIENCE

Designed bivariate control chart program for Metal Spray of Richmond for their quality control program (1994)