

CURRICULUM VITAE

I. Biographical Sketch

NAME: Anna E. Barón

DATE and PLACE of BIRTH: July 30, 1955; El Paso, Texas USA

PRESENT POSITION: Professor
 Department of Biostatistics and Informatics
 Colorado School of Public Health
 University of Colorado Denver
 13001 East 17th Place, Campus Box B-119
 Aurora, CO 80045
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[Faculty Web Page](#)

<u>EDUCATION:</u>		<u>DEGREE</u>
1969-1973	Loretto Academy; El Paso, Texas -Valedictorian	Diploma
1973-1977	Rice University, Houston, Texas Major: Mathematical Science	B.A.
June-August 1977	Summer Session in Biostatistics Harvard School of Public Health- Statistical Epidemiology, Stochastic Processes Sampling and Nonparametric Statistics	
1977-1980	University of Texas School of Public Health Houston, Texas Major: Biometry	M.S.
1980-1984	University of Texas School of Public Health Houston, Texas Major: Biometry Minors: Epidemiology, Health Economics	Ph.D.

POSTGRADUATE TRAINING:

1986-1987 Ford Foundation Postdoctoral Fellowship for Minorities, University of Colorado Health Sciences Center, School of Medicine, Department of Psychiatry, National Center for American Indian and Alaska Native Mental Health Research. Sponsor: Spero M. Manson, Ph.D. Course of Study: Quantitative Methods in Psychiatric Epidemiology.

POSTGRADUATE TRAINING: (cont'd)

- June, 1988 Advanced Statistical Methods in Epidemiology, University of Washington School of Public Health.
- March, 1991 Counting Processes and Survival Analysis, Short Course at the Biometrics Meetings (ENAR); Houston, Texas.
- December, 1993 SUDAAN Short Course at the Research Triangle Institute, Research Triangle Park, North Carolina.
- November, 1995 Counting Processes and Survival Analysis, Short Course; Seattle, Washington.
- August, 1998 Longitudinal Data Analysis with SAS; Dallas, Texas
Generalized Estimating Equation modeling with SAS; Dallas, Texas
- April, 2000 Building and Fitting Mixed Effects Models with Random Location and Scale Effects
An Introduction to Model Building with Reproducing Kernel Hilbert Spaces (with Applications)
Bayesian Hierarchical Modeling
Interface 2000 meetings; New Orleans, Louisiana
- August, 2000 Statistical genetics
Statistical Methods for Modern Molecular Biology: RNA and Protein Analysis
JSM 2000, Indianapolis, Indiana
- June, 2003 Regression Modeling Strategies
Insightful Short Course, Philadelphia
- June, 2003 Pattern Mixture and Selection Models Demystified
WNAR/IMS 2003, Golden, Colorado
- July, 2005 Molecular Biology for Clinical Oncology, Senior Scientist Participant by invitation from the American Association for Cancer Research; July 1-7 Aspen, Colorado
- August, 2005 Statistical Methods for Evaluating Tests and Biomarkers in Medicine
JSM 2005, Minneapolis, Minnesota
- August, 2007 A Course in Multiple Comparisons and Multiple Tests
JSM 2007, Salt lake City, Utah
- August 2008 Bayesian Methods for Data Analysis
JSM 2008, Denver, Colorado
- June 2009 CU Online Summer Web Camp to Develop Online Course Materials
- August 2010 Integrating Computing into the Statistics Curriculum
NSF 2-day Workshop, Vancouver BC
- July 2014 Multi-state modeling
IBC 2014, Half-day short course, Florence, Italy
- July 2016 Joint modeling of longitudinal data and time to event outcomes
IBC 2016, One-day short course, Victoria, BC
- June 11-12
2020 Causal inference
Summer short course, University of Pennsylvania Center for Causal Inference

POSTGRADUATE TRAINING: (cont'd)

May 28 Frontiers in Causal Inference in Data Science: Perspectives from Leaders in Tech and Academia
2021 1-day Webinar, University of Pennsylvania Center for Causal Inference

APPOINTMENTS and PROFESSIONAL EXPERIENCE:

1977-1978 Graduate Assistant, Biometry Discipline, University of Texas School of Public Health,
Houston, Texas.

1978 Research Assistant, Hypertension Detection and Follow-Up Program, University of
Texas School of Public Health, Houston, Texas.

1979 Statistician, Summer Internship, National Center for Health Services Research,
Hyattsville, Maryland.

1980-1984 Senior Research Assistant, National Heart and Blood Vessel Research and
Demonstration Center, Baylor College of Medicine, Houston, Texas.

1983 Biostatistics Instructor, University of Texas School of Allied Health Sciences,
Houston, Texas

1984-1992 Assistant Professor of Biometrics, Department of Preventive Medicine and Biometrics,
School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado

1987-1996 Adjunct Assistant Professor and Biostatistician, National Center for American Indian and Alaska
Native Mental Health Research, Department of Psychiatry, School of Medicine, University of
Colorado Health Sciences Center, Denver, Colorado

1989-1990 Visiting Biostatistician, Epidemiology Unit, Centro di Riferimento Oncologico (CRO); Aviano
(PN), Italy (also May 1992; May 1994 and June 1995)

1992-2004 Associate Professor of Biometrics, with tenure, Department of Preventive Medicine and
Biometrics, School of Medicine, University of Colorado Health Sciences Center, Denver,
Colorado

1996-1997 Acting Head, Section of Biometrics and Biometrics Graduate Program, Department of
Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver,
Colorado

1996-1997 Acting Director, Biometrics Graduate Program, Department of Preventive Medicine and Biometrics,
University of Colorado Health Sciences Center, Denver, Colorado

1997-2002 Head, Section of Biometrics, Department of Preventive Medicine and Biometrics, University of
Colorado Health Sciences Center, Denver, Colorado

2002-2006 Head, Section of Biometrics and Informatics, Department of Preventive Medicine and Biometrics,
University of Colorado Health Sciences Center, Denver, Colorado

2004-2008 Professor of Biometrics, with tenure, Department of Preventive Medicine and Biometrics, School
of Medicine, University of Colorado Health Sciences Center, Denver, Colorado

June-July 2006 Visiting Faculty, Rice University Summer Institute of Statistics, Houston Texas

Sept-Nov 2006 Visiting Scientist, International Agency for Research on Cancer, Lyon France

APPOINTMENTS and PROFESSIONAL EXPERIENCE: (cont'd)

- 2008-present Professor of Biostatistics, with tenure, Department of Biostatistics and Informatics, Colorado School of Public Health (CSPH), University of Colorado Denver, Aurora, Colorado
- 2013-present Senior Biostatistician, VA Clinical Assessment Reporting and Tracking (CART) Program
- 2013-present Senior Biostatistician, VA Seattle-Denver Center of Innovation (COIN)

HONORS:

- 1973-1977 Robert H. Ray Memorial Scholarship, Rice University, Houston, Texas
- 1986-1987 Ford Foundation Minority Postdoctoral Fellowship
- 1989-1990 Research Fellowship funded by National Cancer Institute International Affairs Program, Italian National Research Council, and Centro di Riferimento Oncologico, Aviano (PN), Italy
- 2006 Visiting Scientist Fellowship Award, International Agency for Research on Cancer, Lyon France
- 2010 Induction as Faculty Member into the Alpha Upsilon Chapter of the Delta Omega Honorary Society in Public Health

OTHER ACTIVITIES:

- 1975-1983 Classical Music Announcer, KTRU Rice University
- 1980, 1982 SAS Computer Consultant with V. Lance Tarrance and Associates, Houston, Texas
- 1980, 1981 Survey Consultant to American Medical Student Association, Chantilly, Virginia
- 1981 Workshop Participant and Role Model for Chicano Health Policy Development, Inc., San Antonio, Texas
- 1983-1984 Consultant, Center for Health Promotion Research and Development, University of Texas Health Science Center; Houston, Texas
- 1985-1986 Newsletter Editor for the Colorado-Wyoming Chapter American Statistical Association
- 1985-1988 Representative from the Committee for Minorities in Statistics to the Council's Committee on Videotape Development, American Statistical Association
- 1987-1988 Member, Executive Committee, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center
- 1987-1988 Representative-at-Large 1987-88, Caucus for Women in Statistics
- 1987-1989 Member of Committee on Minorities in Statistics, American Statistical Association
- 1987-1991 Member of Committee on Women in Statistics, American Statistical Association
- 1988-1989 Representative to Faculty Senate, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center
- 1988-1989 Consultant to Craniosynostosis Project, Colorado Department of Health

OTHER ACTIVITIES: (cont'd)

1988	Ad Hoc Reviewer, Special Study Section of the National Institute for Allergy and Infectious Disease
1990-Present	Member Policy Committee - MSPH Graduate Program, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center
1990	Consultant to the Division of Mental Health, State of Colorado, On an Outcome Study of Chronically Mentally Ill Client Types and System Reform
1990	Consultant to Denison Library Survey on Paper Deterioration, University of Colorado Health Sciences Center
1990-1993	Consultant to Emergency Medicine Clinical Research Center, School of Medicine, University of Colorado Health Sciences Center
1990-Present	Protocol Review Committee, University of Colorado Cancer Center
1991, 1992 2003, 2005	Minority Student Recruitment - Meeting of the Society for the Advancement of Chicanos and Native Americans in Science
1991, 1992	Member, Nominating Committee - Statistics Section, American Public Health Association
1991	Member, Nominating Committee, Caucus for Women in Statistics
1991	Consultant to the Colorado Department of Health on Lead Exposure Studies
1991-Present	Member, Committee on Education for Public Health Practitioners, Colorado Department of Health
1991, 1992	Member, Admissions Committee, Graduate Program in Biometrics
1992, 2000	Member, Admissions Committee, MSPH Program
1992-1994	Panel Reviewer, Howard Hughes Medical Institute Predoctoral Fellowship Program
1993-1994	Member, Search Committee for Cancer Epidemiologist, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center
April, 1994	Consultant to Kaiser Permanente Medical Group on Physician Profile Analysis
1994-2002	Member, Appointments and Promotions Committee, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center
1994-1996	Representative to Faculty Senate, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center
1994-1996	Treasurer for the Colorado-Wyoming Chapter - American Statistical Association
1995	Ad Hoc Reviewer, Special Study Section of the National Institute on Aging for Minority Dissertation Proposals
1995, 1996	Panel Reviewer, American Cancer Society Institutional Grant Review Committee, University of Colorado Cancer Center

OTHER ACTIVITIES: (cont'd)

- 1996-1997 Chair, Search Committee for Biostatistician at The Children's Hospital and the Department of Preventive Medicine and Biometrics
- 1997 WNAR Student paper competition – judge for presentations
- 1997, 1999 Member, Nominating Committee, WNAR of the International Biometric Society
- 1997 Panel Reviewer, National Science Foundation Minority Predoctoral Fellowship Program
- 1998 Member, Regional Advisory Committee, WNAR of the International Biometric Society (3-year term)
- 1999 Ad Hoc Reviewer, National Science Foundation, Pre-doctoral Fellowships in Mathematics and Statistics
- 2000 Organizer, Invited paper session at the Joint Statistical Meetings, Indianapolis, Indiana. Global Statistics: The Collaboration between the US and Chile as an Example of a Success Story.
- 2001 Organizer, Tutorial in Bioinformatics at the WNAR Meeting, Burnaby BC, June 2001.
- 2001-2012 Biostatistics and Bioinformatics Core Director, University of Colorado Cancer Center
- 2001-2019 Biostatistics and Bioinformatics Core Director, Lung SPORE, University of Colorado Cancer Center
- 2001-2011 Member of DSMB for the UCHSC Polycystic Kidney Disease projects
- 2002 President-elect, WNAR of the International Biometric Society (3-year term)
- 2002 Member, Search Committee, Chair of Orthopedics, University of Colorado School of Medicine
- 2002-2003 Member, MSPH Diversity Scholarship Committee, Department of Preventive Medicine and Biometrics, UCDHSC
- 2003 Organizer, Invited Panel at the WNAR/IMS 2003 meeting, Golden, Colorado
So Many Opportunities, So Few of Us: What Can We Do as a Profession to Address the Impending Shortfall in the Supply of Biostatisticians?
- 2003-2011 Advisory Board Member, Rice Summer Institute in Statistics, Javier Rojo, Ph.D., PI
- June 2006 Ad hoc Panel Reviewer, Biostatistical Methods and Research Design Study Section, NIH
- July 2007-
June 2011 Panel Reviewer, Biostatistical Methods and Research Design Study Section, NIH
- February-
June 2008 CSPH representative, UCD Provost Search Committee
- September 2008 -
July 2010 Chair, Appointments, Promotions and Tenure Committee, Colorado School of Public Health
- October 2009 -
January 2011 Chair, Search Committee for Senior Biostatistics Faculty and Director, Biostatistics and Bioinformatics Core, University of Colorado Cancer Center

OTHER ACTIVITIES: (cont'd)

- February 2010 Ad hoc Panel Reviewer, NCI SPORE Program, NIH
- August 2010 - August 2015 Member, Appointments, Promotions and Tenure Committee, Colorado School of Public Health
- October 2010- March 2016 Advisory Board Member (3 2-year terms), President's Fund for the Humanities, University of Colorado
- February 2011 - 2012 Member, Search Committee for Senior Biostatistics Faculty and Director, Biostatistics Core, University of Colorado Cancer Center
- July 2012 - June 2015 CSPH Faculty Senate President-elect (3-year term)
- October 2012 Ad hoc Panel Reviewer, NCI Epidemiology of Cancer Study Section, NIH
- July 2013 - December 2013 Panel Reviewer, Epidemiology of Cancer Study Section (EPIC), NIH
- January 2014 - June 2015 Panel Reviewer, Cardiovascular and Sleep Epidemiology (CASE)/EPIC – Panel B Study Section, NIH
- June 2014- June 2015 Member, External Advisory Board, Myeloproliferative Disorders Research Consortium, Mount Sinai School of Medicine
- October 2014 - present Advisory Board Member, MedAware Systems, Inc. Broomfield, Colorado
- September 2015 - August 2021 CSPH Representative to the Vice Chancellor's Advisory Committee on Appointments, Promotions and Tenure, University of Colorado Anschutz Medical Campus
- June 2016 Panel Reviewer, Special Emphasis Panel, NCI Research Specialist Award
- January 2017 - January 2021 Department of Biostatistics and Informatics Representative to the CSPH Research Committee
- April to June 2017 Member, Department of Biostatistics and Informatics, Faculty Search Committee
- April to June 2017 UCCC, Faculty Search Committee for Director of Thoracic Oncology Initiative
- February 2018, February 2019, January 2021, January 2022 Panel Reviewer, CCTSI Pilot awards for novel or translational methods
- May 2018- June 2020 Member, Search Committee for Chair, Community and Behavioral Health, CSPH
- October 2018 - October 2019 Faculty advisor, STATCOM Chapter, CSPH
- October 2018 - present Member, Professionalism Committee – Faculty Representative, CSPH

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OTHER ACTIVITIES: (cont'd)

October 2019 - Chair, Search Committee for Tenure Track Assistant Professor on Big Data/Data Science,
March 2020 Biostatistics and Informatics, CSPH

August 2020 - Member of the BIOS Department Social Committee
July 2021

December 2020 - Member of the BIOS Committee on Peer Evaluation of Teaching
present

January to May 2021 Member of the BIOS Research Administration Committee

December 2021 - Member Planning Committee for 2022 CSPH Research Exchange Day
September 2022

REFEREE WORK:

1983-1999	Contributor to <i>Current Index to Statistics</i>
1986, 1995, 1997 1998, 2003, 2015	Manuscript Referee, <i>American Journal of Epidemiology</i>
1989	Manuscript Referee, <i>Journal of the American Statistical Association</i>
1995	Manuscript Referee, <i>Biometrics</i>
1995	Manuscript Referee, <i>Journal of Agricultural Safety and Health</i>
1995	Manuscript Referee, <i>American Journal of Public Health</i>
1995-2000	Biostatistical Consultant and Referee to <i>Arthritis and Rheumatism</i>
1998	Pre-publication review of mathematical statistics text, Springer-Verlag
2000	Manuscript Referee, <i>Child Abuse and Neglect</i>
2000	Pre-publication review of introductory online statistics text, Atomic Dog Publishing
2004-present	Manuscript Referee, <i>Journal of Clinical Oncology</i>
2011	Manuscript Referee, <i>Journal of Biopharmaceutical Statistics</i>
2018	Manuscript Referee, <i>Cancer Genetics</i>
2018	Manuscript Referee, <i>Clinical Cancer Research</i>

SOCIETIES:

American Statistical Association – Sections: Biometrics Section, Statistical Learning and Data Science, Lifetime Data Science, Medical Devices and Diagnostics, Statistical Computing (past), Epidemiology (past), Imaging (past), TSHS (past), CO-WY Chapter
International Biometric Society (IBC) – WNAR

LANGUAGES:

English (native speaker), Spanish (very good proficiency), Italian (fair to good proficiency)

TEACHING:

Thesis Committee Member (Chair or Mentor, where noted):

Deborah Hauck, MSPH. Study of the Medically Indigent in Adams County and Aurora, Colorado, from Health Care Providers, 2/86.

Francis Boadi-Boateng, Ph.D. in Biometrics. Unbalanced Designs and Serial Correlation in Longitudinal Data, 8/86.

Deb Gregan, MSPH. IUD Use and Invasive Cervical Cancer, 8/86. (Refereed Publication No. 21.)

Sharon Keefer, M.S. in Biometrics. Analysis of Recurrent Hospitalizations Among Insulin-Dependent Diabetics Using Proportional Hazards Regression Extended for Multiple Failures, 4/87. (Chair of Thesis Committee).

Carlos Plasencia, MSPH. Decision Making Based on Results of the Stress Test, 3/88. (Refereed Publication No. 23)

Lori Borden, MSPH. A New Patient Satisfaction Survey for a Family Medicine Center, 5/88.

Marilyn Leff, MSPH. The Association Between Maternal and Infant Low Birthweight, 8/88. (Refereed Publication No. 24)

Boghuang Zhen, M.S. in Biometrics. Sample Size Determination for Survival Data with Unrestricted Covariates: Formulas in Simulation, 1/91.

Monica Jones, M.S. in Biometrics. Assessment of Placebo Responsivity within a Clinical Trial of Cyclosporine for the Treatment of Chronic-Progressive Multiple Sclerosis, 5/91.

Sandra Joshua, MSPH. A Case-Control Study of Risk Indicators for the Occurrence of Craniosynostosis in a Colorado-based Population (1978-1985), 5/91. (Refereed Publication No. 33)

Nancy Gegen, MSPH. A Case-Control Study of Potential Obstetric Risk Factors for Intra-Uterine Fetal Constraint and Their Association with Craniosynostosis, 9/91.

Denise Beaudoin, MSPH. Clear Creek Metals Exposure Study, 11/91.

Jan Ferguson, MSPH. Comparison of Questionnaire Response in Patients with Invasive and Non-Invasive Malignant Melanoma, 2/92.

Bonnie McCafferty, MSPH. Results of Group A Streptococcal Bacteremia Surveillance, 4/92.

Mark Doescher, MSPH. Associations Between Usual Source of Health Care Location and Insurance Category and Absence of Prior Mammographic Screening: An Analysis of the 1987 Survey of American Indians and Alaska Natives, 6/92.

Holly Halvorsen, MSPH. Adolescent Diet, Age at Menarche, and Risk of Breast Cancer, 12/92

Bill Stauffer, MSPH. The Effect of Prenatal Care on Birthweight: Bethel Wholistic Health Center and Bethany Hospital, 12/92.

Larry Wolk, MSPH. Factors Influencing Overutilization of a School-based Health Clinic, 2/93.

Terry Andres, MSPH. Tracking Sentinel Events: Urban Core Neighborhoods at Risk for Advanced Stage Female Breast Cancer, 4-93. (Refereed Publication No. 34.)

Thesis Committee Member (Chair or Mentor, where noted): (cont'd)

Linda Barbour, MSPH. Subclinical Heparin-Induced Osteoporosis in Pregnancy, 5/93. (Refereed Publication No. 31.)

Lisa Miller, MSPH. A Case-Control Study of Immunization in Colorado, 5/93. (Refereed Publication No. 30.)

Elaine Lowery, MSPH. Evaluation of a Parent-Held Health Record and Tracking System in a Private Pediatric Practice, 1/94.

Sharon Beck, M.S. in Biometrics. Benefits of Mammographic Screening, 1/94. (Chair of Thesis Committee).

Eric France, MSPH. Evaluation of Tuberculin Skin Test in an HMO, 2/94.

Boghuang Zhen, Ph.D. in Biometrics. Sample Size Determination for Survival Data with Unrestricted Covariates: Formulas and Simulation, 6/94.

Will Schluter, MSPH. Utility of HIV Post-Test Counseling by Telephone for Low Risk Clients of an Urban Sexually Transmitted Diseases Clinic, 5/95. (Refereed Publication No. 35.)

Renee Johnson, MSPH. Cost of Traumatic Spinal Cord Injury in a Population-based Registry, 7/95.

Brad Warner, Ph.D. in Biometrics. Extensions to the Generalized Linear Model Using Neural Networks, 5/96.

Bill Wright, MSPH. Do Self-Reported Health Behaviors Explain Differences in Health Care Utilization Among Adults in a Prepaid Health Setting?, 5/96.

Karen Hufnagel, MSPH. The Role of Maternal Experiences of Child Abuse as Antecedent to Subsequent Child Abuse Risk, 8/96.

Marci Sontag, MS in Biometrics. Pulmonary Function Percentile Curves for Normal Infants Using Longitudinal Mixed Effects Modeling; Application to infants with Cystic Fibrosis identified through the Newborn Screen, 8/96.

Kimberly Shavender, MSPH. Choice of Medical Care in a Pluralistic Medical System: Punta Gorda, Belize, 11/96.

Toni Harrison, MSPH. Environmental Radon and Mutant Frequencies in Peripheral Lymphocytes, 11/96.

Brian Montague, MS in Biometrics. Object Linking and Embedding and the Clinical Research Workstation, 6/97.

Deanna Martinez, MS in CHAPS Program. Non-traditional Predictors of Success in Mexican-American Health Practitioners: Selected Case Histories, 6/97.

Julie Vanderkolk, MSPH. Differences in Self-reported Risk Behavior Based on Positive HIV Serostatus Knowledge by Men Attending Sexually Transmitted Disease Clinics, 11/97.

Stephanie Tudor, MSPH. Incidence and Progression of Diabetic Retinopathy Among Hispanics and Non-Hispanic Whites with NIDDM: San Luis Valley Diabetes Study, 8/97. (Refereed Publication No. 41.)

Jennifer Barrow, MSPH. The Effectiveness of HIV Counseling and Testing on Changing Sexual Behaviors of Heterosexual Adolescents, 5/98.

Thesis Committee Member (Chair or Mentor, where noted): (cont'd)

Xuesheng Xu, MS in Biometrics. Identification of factors contributing to the variation of human hematopoietic progenitor cell engraftment in NOD/SCID mouse, 5/98.

Sue Duval, Ph.D. in Biometrics. Effects of Publication Bias in Meta-Analysis, 2/99.

Zhaoxing Pan, Ph.D. in Biometrics. Surrogate Markers for Survival Times in Clinical Trials: A Proposed Class of Intermediate Events as Marker Variables, 11/99.

Judy Shlay, MSPH. Predictors of Cervical Intraepithelial Neoplasia^{2/3} in Women with Atypia on Pap Smear, 11/99. (Refereed Publication No. 51.)

Nina Kadan-Lottick, MSPH. The Prevalence of Osteoporosis in Survivors of Pediatric Acute Lymphoblastic Leukemia, 11/99. (Refereed Publication No. 54.)

Karen Ramstrom, MSPH. Contraceptive Discontinuation: Influenced by Past or Present Side Effects or Practical Problems with Method Use, 6/00. (Refereed Publication No. 64.)

Lening Zhang, MS in Biometrics. Design of Cancer Clinical Trials with Potentially Lethal Treatments, 7/01.

Ann Deas, MSPH. Ambulatory Care Physicians' Attitudes & Beliefs about Antibiotic-Resistance, 11/01.

Shannon Brown, Ph.D. in Epidemiology. Lung cancer and internal lung doses among plutonium workers at the Rocky Flats Plant: a case-control study, 12/02. (Refereed publication No. 82.)

Chan Zeng, MS in Biometrics. Comparison of Statistical Summary Measures of ELISPOT Data, 12/02. (Co-Chair of Thesis Committee). (Refereed Publication No. 93.)

Chris Armijo, MSPH. Epidemiology of Cancer Incidence and Mortality Among Colorado Hispanics, 1/02. (Chair of Thesis Committee).

Heather Orton, MS in Biometrics. Alcohol and Marijuana Use in American Indian Adolescents: An Application and Extension of a Mixed-distribution Model With Correlated Random Effects, 5/02. (Co-Chair of Thesis Committee).

Susan Lukacs, MSPH. Effectiveness of an Asthma Management Program for Pediatric Members of a Large Health Maintenance Organization, 2/02. (Refereed Publication No. 68.)

Larry Martinez, Ph.D. in Pharmacology. The effect of total body water on the relationship between alcohol consumption and CDT levels, 5/02. (Refereed Publication No. 63.)

Rhonda Gonzalez, MSPH. An Evaluation of Associations of Social Support and Stressful Life Events in Breastfeeding by Colorado Women, 9/02.

Tim Webb, Ph.D. in Biometrics. Exact Test Size and Power for Small Samples Using an Internal Pilot Study, 10/02. (Mentor).

Mark Brown, MSPH. Association between Recombinant Human Erythropoietin Exposure and an Increased Risk for Retinopathy of Prematurity, 10/02. (Refereed Publication No. 107.)

Tim Wells, Ph.D. in Epidemiology. Analysis of Cancer Mortality and Incidence Among Nuclear Weapons Workers at the Rocky Flats Plant, 2/03.

Carolyn Fronczak, MSPH. *In utero* dietary exposures and risk of islet autoimmunity in offspring, 5/03. (Refereed Publication No. 76.)

Thesis Committee Member (Chair or Mentor, where noted): (cont'd)

Doug Wolf, MS in Biometrics. Quantitative and Qualitative Issues in the Assessment of Cellular Motility, 5/03. (Chair of thesis committee).

Deb Thompson, MSPH. Human Papillomavirus 16: Prevalence, Incidence, and Behavioral Risk Factors, 6/03. (Refereed Publication No. 87.)

Hilary Helinek, MSPH. Stressful Life Events Exposure in Early Childhood and Appearance of Islet Autoimmunity. The Diabetes Autoimmunity Study in the Young (DAISY), 05/04.

Kathleen Torkko, Ph.D. in Epidemiology. Vitamin D Receptor Gene Polymorphisms and Prostate Cancer, 4/05. (Refereed Publication No. 117.)

Jason Glanz, Ph.D. in Epidemiology. The Risk of Idiopathic Thrombocytopenic Purpura (ITP) Following Measles, Mumps, and Rubella (MMR) Vaccination: Attributable Risk and a Simulation Study to Evaluate Four Study Designs, 4/05.

Katherine Pratte, MSPH. Plasminogen Activator Inhibitor-1's Association with Coronary Artery Calcification in Type 1 Diabetes, 7/05. (Refereed Publication No. 125.)

Kathe Bjork, PhD in Biostatistics. Robust Singular Value Decomposition and Mixture Modeling for Detecting Informative Genes and Gene Clusters from Microarray Experiments, 5/06. (Chair)

Heather Brady, PhD in Epidemiology. The Vitamin D Receptor Gene and Vitamin D Status in Children Who Are at Increased Risk of Developing Type 1 Diabetes, 6/06.

Chan Zeng, PhD in Biostatistics. Multivariate General Linear Model Under Permutation Theory with Application to Gene Expression Data, 9/07. (Chair) (Refereed Publication No. 77.)

Dexiang Gao, PhD in Biostatistics. Analysis of Longitudinal Count Data, 11/07. (Chair)

Xian Lu, MS in Biostatistics. Use of Marginal Structural Models to Estimate the Causal Effect of Environmental Tobacco Smoke Exposure on Asthma Rescue Medication Use in Asthmatic Children, 7/08.

Blessing Wazara, MPH in Biostatistics. Socioeconomic Factors for RSV in Indonesian Children, 12/08.

Lijing Zhang, MS in Biostatistics. Optimal Risk Window for Self-Control Case Series Designs in Vaccine Safety Studies, 12/08.

Adam Boyd, PhD in Biostatistics. Censoring-robust Treatment Effect Estimation in Clinical Trials with Time-to-event Outcomes, 3/09. (Chair)

Patrick Hosokawa, MS in Biostatistics. Data Imputation of lab values: Which method works best?, 5/09.

Alma Palisoc, MSPH. The contribution of immigration to the increasing hepatocellular carcinoma incidence: A thirty year analysis of trends in the SEER 9 data from 1975 to 2004, 5/09.

Lynn Johnson, MS in Biostatistics. Cardiac Procedures Following Acute Myocardial Infarction: Sequence, Timing, and Mortality, 5/09.

Xiang Yin, PhD in Biostatistics. Monitoring Clinical Trials with Multiple Dose Groups, 6/09.

Miranda Grote, MS in Biostatistics. A Comparison of Methods to Test Intermediate Endpoint Effects in Logistic Regression, 9/09.

Thesis Committee Member (Chair or Mentor, where noted): (cont'd)

Carol-Ann Goheen De Maio, MSPH. Validation of a hereditary cancer screening tool for genetic testing for Hereditary Breast and Ovarian Cancer and Hereditary Non-polyposis Colorectal Cancer syndromes for use in a primary care setting, 12/09. (Chair)

Melissa Simpson, PhD in Epidemiology. Mucosal Immunity and the Risk for Type 1 Diabetes, 3/10. (Refereed Publication No. 134.)

Matt Haemer, MPH in Epidemiology. A clinical model of obesity treatment is more effective in preschoolers and Spanish speaking families. 5/11. (Refereed Publication No. 145.)

Bryan McNair, MS in Biostatistics. Survival Analysis: Modelling Website Usability with Mixed Discrete Survival Models, 12/11. (Chair and mentor)

Mike Bade, PhD in Clinical Sciences. Improving Strength and function After Total Knee Arthroplasty, 6/12.

Christina Clarke, MS in Biostatistics. Natural history of left ventricular ejection fraction in patients with heart failure, 11/12. (Refereed Publication No. 150.)

Rebecca Vigen, MS in Clinical Sciences. Association of testosterone therapy with mortality, myocardial infarction, and stroke in men with low testosterone levels, 5/13. (Refereed Publication No. 151.)

Brandy Ringham, PhD in Biostatistics. Reducing Decision Errors in the repeated Measures Studies with Missing Data, 7/13.

Brittini Frederiksen, PhD in Epidemiology. Age-related Etiologic Heterogeneity in the Onset of Islet Autoimmunity, 3/14. (Refereed Publication No. 158.)

Sarah Kreidler, PhD in Biostatistics. On the Selection of Sample Size for the General Linear Model and the General Linear Mixed Model, 3/14. (Refereed Publication No. 147.)

Patricia Valverde, PhD in Health Services Research. Understanding the Effect of Socioeconomic Gradient within Racial/Ethnic Groups on Breast, Colorectal and Prostate Cancer Outcomes, 5/14.

Eric Grimm, MS in Epidemiology. Risk of Thyroid Nodules as Related to Iodine-131 Dose in a Ukrainian Cohort Following the Chernobyl Accident, 5/15.

Kim Martin, PhD in Clinical Sciences. Ultrasonic vs. Radio Frequency Energy Sealing of the Cystic Duct in Patients with Chronic Cholecystitis, 5/15.

Miranda Dally, MS in Biostatistics. A Two-part Mixed Model using the Generalized Gamma Distribution to Model Zero Inflated Workers' Compensation Claims Data, 12/15.

Colin O'Donnell, PhD in Biostatistics. Separating Between and Within Cluster Effects for Hierarchical Time Varying Covariates in Time to Event Analyses, 4/16. (Chair)

Dick Lambert, MS in Biostatistics. Design and Implementation of Group Sequential Trials for Censoring-Robust Hazard Ratio Estimators, 5/16.

Ken Scott, PhD in Epidemiology. Falls, Fall Injuries and the Aging Workforce, 8/16. (Refereed Publications No. 181, 193.)

Derek Smith, MS in Biostatistics. Beryllium Lymphocyte Proliferation Test (Be-LPT) Uninterpretable: An assessment of over proliferation and poor growth test results, 6/17. (Co-Chair) (Refereed Publication No. 188.)

Thesis Committee Member (Chair or Mentor, where noted): (cont'd)

Justin Eagles, MS in Biostatistics. Conserved cancer stem cell populations in a patient-derived xenograft model of salivary gland cancer, 7/17.

Katherine Page Gelman, DrPH in Community and Behavioral Health. Using Latent Variable Modeling to Explore the Factors Influencing Marijuana Use Trajectories among American Indian Youth, 7/17.

Katherine Roberts, MS in Biostatistics. Machine Learning Methods with Hierarchical Data, 9/17.

Kevin Josey, MS in Biostatistics. Power for balanced linear mixed models with complex missing data processes, 12/17. (Refereed Publication No. 219.)

Danielle Ostendorf, PhD in Epidemiology. Determining the Optimal Level of Objectively Measured Physical Activity for Long-term Weight Loss and the Association Between Motivational Profiles and Physical Activity Adoption and Maintenance, 4/18.

Alan Arakkal, MS in Epidemiology. The Effect of Traumatic Brain Injury State Laws on Incident and Recurrent Concussion Rates, 5/19. (Refereed Publication No. 209.)

Piper Williams, MS in Biostatistics. Assessment of Biomarker Testing Strategies in Lung Cancer Risk Prediction, 8/19. (Co-Chair)

Ted Warsavage, MS in Biostatistics. Quantifying the Incremental Value of Deep Learning: Application to Lung Nodule Detection, 12/19. (Refereed Publication No. 210.)

Chong Kim, MS in Biostatistics. Extension of the Sequential K Nearest Neighbors Algorithm with Predictive Mean Matching (PMMSKNN), 5/20.

Annika Hebbe, MS in Biostatistics. Assessing the Performance of Different Models for Paired Recurrent Event Data, 7/20.

MPH Practicum and/or Capstone Preceptor

Roy Yen, MPH in Applied Biostatistics. Determinants of Endoscopic Ultrasound Guided Fine Needle Aspiration Diagnosis of Gastric Stromal Tumors, 5/12. (Practicum and Capstone Preceptor)

Eun Cho, MPH in Applied Biostatistics. Associations of Body Site and Sex with Nevus Growth in a 1998 Birth Cohort of Colorado children: An Analysis of Change in Nevus Size Between the Ages of 12 and 13, 5/13. (Capstone Preceptor)

Laura Selmic, MPH in Applied Biostatistics. Comparison of carboplatin and doxorubicin-based chemotherapy protocols in 470 dogs following amputation for treatment of appendicular osteosarcoma, 8/13. (Practicum and Capstone Preceptor)

Ming Ma, MPH in Applied Biostatistics. Heterogeneity in Responding to Exercise Interventions for Parkinson Disease, 12/13. (Practicum and Capstone Preceptor)

Kismet Cordova, MPH in Applied Biostatistics. Differences in Baseline and Radiation Dose Related Excess Risks Among Atomic Bomb Survivors in Proximal and Distal Areas as a Function of Age and Gender, 5/15. (Capstone Preceptor)

Caroline Ledbetter, MPH in Applied Biostatistics and in Epidemiology. Association of Food Insecurity and Metabolic Syndrome among NHANES Participants 1999-2014, 5/17. (Capstone Preceptor)

Mohammad Dakkak, MPH in Applied Biostatistics. VUMC-CU R01 Randomized Clinical Trial Design, June-August, 2021. (Practicum Preceptor)

Course Director:

1983	Director for Introduction to Biostatistics, University of Texas School of Allied Health Sciences, Houston, Texas; a 3-credit required methods course for Allied Health students.
1984, 1988, 1991 1994, 1997, 1999 2004	Director for BIOM 6602, a required 3-credit statistical methods course with lab for graduate students in Public Health and others.
1988, 1990, 1991 1993, 1998, 2001 2002, 2007, 2010	Director for BIOM 6601, a required 3-credit statistical methods course with lab for graduate students in Public Health and others.
1985, 1988, 1989, 1991, 1995, 1997, 1999, 2001, 2005, 2009, 2011, 2012, 2014, 2016	Director for BIOM 6646, Survival Analysis, a 3-credit course for Biostatistics graduate students, emphasizing nonparametric estimation and semi-parametric and parametric survival regression methodology. (2 credits on semester system; 3 credits starting in spring 2011)
1985	Co-director for BIOM 500, a required, 2-credit statistical and epidemiologic methods course for first-year medical students.
1985	Co-director for ICM-IDPT 503, Epidemiology, a required, 2-credit statistical and epidemiologic methods course for first-year medical students.
1987	Director BIOM 6612, Computer Oriented Statistical Methods, a 3-credit course for Biometrics graduate students, emphasizing regression methodology using statistical packages.
1992, 1995, 2005 2009, 2011, 2013 2015, 2017	Director for BIOM 6611, Biostatistical Methods I (formerly: Computer Oriented Statistical Methods I), a 3-credit course for Biostatistics graduate students, emphasizing probability and hypothesis testing using sampling, simulation and resampling.
1993	Director for BIOM 6633, Introduction to Statistical Theory, a 3-credit course for Biometrics graduate students emphasizing the theory of hypothesis testing and nonparametric statistics.
2009-2010 2012-2013 2016	Co-Director, PUBH6955, Master's Project, a 1-2 credit course for MPH students to complete an independent Master's Project in which the student demonstrates public health competencies (1 credit) and a set of Capstone activities that include presentations and a reflective report of the project (1 credit).
2011	Co-Director, EPID7915, Analytic Epidemiology – 1 credit module on survival analysis with Gary Grunwald PhD
2012, 2014 2016, 2018	Director for BIOS 6629, Applied Survival and Longitudinal Data Analysis, a 3-credit course for MPH and non-biostatistics PhD students, emphasizing analysis of time to event data, longitudinal data and regression modeling strategies.
2018	Co-Director for BIOS 6645 and 7645, Predictive Analytics, 3-credit courses for MS and PhD students, respectively, emphasizing the development, validation and reporting of predictive models using regression and machine learning approaches.

Core Faculty:

- 1996-1997
1998, 2001-02 Director for BIOM 6621, Consulting Methods a 1-credit course for Biometrics graduate students emphasizing the development and use of consulting skills in the biomedical research environment.
- 1984 Biometrics 6682, an elective 3-credit computer literacy course which provides an introduction to programming and programming languages.
- 1985 Research Methods Course on Grant Development, a 6-week seminar offered for junior investigators by the Department of Preventive Medicine and Biometrics.

Other Teaching:

- 1985 Biostatistics Postgraduate Seminar Director for the American Occupational Medicine Association Meetings, April 28, 1985, Denver, Colorado. The seminar was intended to assist physicians in preparing for the Board examination in Occupational Medicine.
- 1987, 1988, 1991
2001, 2003, 2015
2016, 2017 Lecturer in PRMD 6631 Advanced Epidemiologic Methods for graduate students in Public Health.
- 1989, 1991 Instructor, Graduate Experience for Minority Student Summer Program (GEMS).
- 1991, 1992 Lecturer, Symposium on Research Methods in Emergency Medicine, UCHSC.
- 1991 Lecturer on Survival Analysis - Head and Neck Tumor Conference, UCHSC.
- 1991 Lecturer, PRMD 6629 Clinical Epidemiology for Preventive Medicine Residents others.
- 1991, 1992
1993, 1995 Guest Lecturer, Introduction to Epidemiology, Department of Environmental Sciences, Colorado State University.
- 1994, 1995 Guest Lecturer, Introduction to Statistical Consulting, Department of Applied Mathematics, University of Colorado at Denver.
- 1996, 1998 Lecturer, PRMD 6910 Field Study in Epidemiologic Research Methods, UCHSC
- 2012-2014 Organizer, Public Health Academy: Biostatistics Outreach Activities to Middle and High School Students in the Aurora School District
- 2016 Lecturer, CLSC 6585 A Master Course on Power and Sample Size for Multilevel and Longitudinal Health Behavior and Social Science Studies
- 2017 Lecturer for 5 weeks, BIOS 6602 Applied Biostatistics II, CSPH

TEACHING AWARDS:

- 1991 Biometrics Faculty Teaching Award - given by Graduate Students in Biometrics
- 1995 Departmental Teaching Award - given by the Graduate Students in Public Health and Biometrics
- 2001 Departmental Teaching Award - given by the Graduate Students in Public Health and Biometrics

RESEARCH EXPERIENCE and INTERESTS:

- 1977-1978 Discriminant Analysis: Determinants of choice and cost implications of Inpatient vs. Outpatient surgery in an HMO, with Dave Lairson, Ph.D.
- 1979-1984 Survival Analysis: Prognostic factors for survival after coronary artery bypass surgery. Led to Master's Thesis: Variable Selection in the Multiple Logistic and Cox Proportional Hazards Models with Applications to Survival After Coronary Bypass Surgery (September, 1980). Advisor: Abraham Silvers, Ph.D.
- 1982-1984 Longitudinal analysis and tracking of blood pressure in adolescents, with David Fixler, MD.
- 1982-present Discriminant Analysis: Classification by various methods under specific distributional assumptions. Led to Ph.D. dissertation: Distributional Properties Affecting Classification in Multiple Group Discriminant Analysis (July, 1984). Advisor: Ronald N. Forthofer, Ph.D.
- 1984-1985 Treatment of Cancer in the Elderly, with Jim Murphy, Ph.D.
- 1985-1990 Misclassification of covariates and its effect on estimates of risk, with David Savitz, Ph.D. and Beth Alderman, MD, MPH.
- 1986-1994 Psychiatric Epidemiology: Subjective well-being and Psychometric properties of the CES-D in older American Indians with chronic disease, with Spero Manson, Ph.D.
- 1989-1994 Cancer Epidemiology: Risk factors for renal cell cancer, cancers of the upper aero-digestive tract, and melanoma, with Silvia Franceschi, MD, and Renato Talamini, Ph.D.
- 1989-present Model identification: Additivity vs. multiplicativity of combined effects of risk factors.
- 1990-present Use of polychotomous logistic regression and general relative risk models to estimate and compare combined risk across disease groups.
- 1994-present Longitudinal Discriminant Analysis, with Guillermo Marshall, Ph.D.
- 1994-1998 Cancer Epidemiology: Body size and breast cancer in Italy, with Silvia Franceschi, MD.
- 1994-1996 Psychiatric Epidemiology: PTSD in American Indian Vietnam Veterans, with Jan Beals, Ph.D.
- 1995-2000 Evaluation of Socially focused HIV Preventive Interventions in Injection Drug Users, with Steve Koester, Ph.D.
- 2002-present Evaluation for biomarkers for early detection of lung cancer, with Leila Garcia, Ph.D., Holly Wolf, MSPH, Ph.D., Bill Feser, M.S., and York Miller, MD
- 2006-2010 Multiplex serology for *Helicobacter pylori* and severity of gastric lesions, with Martyn Plummer, Didier Colin, and Silvia Franceschi, MD.
- 2013-present Biomarker-enhanced prediction modeling for early detection of lung cancer in the pre-screening and the lung nodule settings, with Pierre Massion MD, Alex Kaizer PhD, Piper Williams BS, Erin Hirsch MSPH, Bill Feser MS, Ted Warsavage MS, Melissa New MD, Tami Bang MD, Danny Green MD, Matt Rieth MD MS, Jolene Strong RN, Heidi Chen PhD, Michael Kammer PhD, Eric Grogan MD MPH, Leila Garcia PhD, Holly Wolf MSPH PhD, Steve Malkoski MD PhD, Subho De PhD, York Miller MD, and Tim Byers MD MPH

FUNDED RESEARCH:

Epidemiology of Cancer in the Elderly, American Cancer Society Institutional Research Grant, Anna E. Barón, Ph.D. and James R. Murphy, Ph.D., Co-P.I.'s 10/1/84-8/31/85, \$2,000.

American Indian and Alaska Native Mental Health Research and Development Center, R01 NH41424-05, 7/1/86-6/30/91, Spero M. Manson, Ph.D., P.I., Biostatistician - 50% (9/1/87-8/31/89), 20% (9/1/90-6/30/91), Annual Direct Costs = \$3000,000. NIMH.

Epidemiologic Study of Craniosynostosis Occurrence, R29 HD22831 02 5, 2/1/88-1/31/93, Beth W. Alderman, M.D., MPH, P.I., Biostatistician - 5% (2/1/88-8/31/89), Annual Direct Costs = \$63,193. NICHD.

University of Colorado Health Sciences Center Core Grant, 5P30 CA469634-03, 3/1/88-2/28/91, Paul Bunn, M.D., P.I., Biostatistics Core - 30% (9/1/90-2/28/91), Annual Direct Costs = \$943,327. NCI

American Indian and Alaska Native Mental Health Research and Development Center R01 NH41424-Renewal, 7/1/91-6/30/96, Spero M. Manson, Ph.D., P.I., Biostatistician - 20%, Total Direct Costs = \$4,582,173. NIMH.

Alcohol Use/Abuse Among Indian High School Students, R01 AA08747-01A1, 7/1/91-6/30/96, Spero M. Manson, Ph.D., & Janette Beals, Ph.D., Co-P.I.'s, Biostatistician - 5%, Total Direct Costs = \$3,300,000. NIAAA.

University of Colorado Health Sciences Center Cancer Center Core Grant, 5P30 CA46934-Renewal, 2/28/96-2/28/01, Paul Bunn, M.D., P.I., Biostatistics Core - 35% (current), Annual Direct Costs = \$106,878. NCI. (Active since 1990).

Passport Study, Bruce Scoggins, Ph.D. and William Frankenburg, M.D., Co-P.I.'s, Biostatistician - 5% (9/1/91-12/31/94), Annual direct Costs = \$221,000. Packard Foundation

Hispanic Health and Aging, San Luis Valley, CO. AG10940-01, Richard F. Hamman, M.D., Dr. P.H., P.I., 7/1/92-6/30/97, Biostatistician, 20%, Annual Direct Costs = \$308,078. NIA.

Initiating Contraception in an STD Clinic Setting, 13.974, Judy Shlay, M.D., P.I., 12/1/96-11/30/00, Biostatistician, 5%, \$19,893 (sub-contract), Health Services Research.

A Study of Individual/Network HIV Interventions for IDUs, PA 94-010, Stephen Koester, Ph.D., P.I., 10/1/96-12/31/2000, Biostatistician (Co-PI), 30%, Total Direct Costs = \$2,931,360. NIDA.

Nutritional Etiology of Prediabetic Autoimmunity, Jill M. Norris, Ph.D., P.I., 7/01/97 - 3/31/12 Biostatistician, 5%, Total Direct Costs= \$1,332,171, NIDDK.

Natural History of Pre-diabetic Autoimmunity, 5R01 DK32493-10A2, Marian Rewers. M.D. Ph.D., P.I., 07/01/97-06/30/00, Biostatistician, 5%, Total Direct Costs=\$323,683, NIDDK.

Medical Surveillance for Former Workers at the Rocky Flats Environmental Technology Site, A. James Rutenber, M.D., 10/1/96 - 9/30/01, Biostatistician, 5%, Total Direct Costs=\$465,566, DOE.

Multi-center Study of State/Trait Markers in Alcoholism, Boris Tabakoff, Ph.D., 5/1/98-12/31/98, Biostatistician, 20%, Total Direct Costs = \$ 467,768, NIAAA.

HIV/STD prevention research in 2 American Indian tribes, CM Mitchell, Ph.D., 01/01/99 - 12/31/03, Biostatistician, 10%, Total Direct Costs = \$ 1,602,000, NIMH.

UC Cancer Center Biostatistics Core, Anna E. Barón, Ph.D., 2/01/96-1/31/11, Core Director starting in 10/00, 20-25%, Total 5-yr. Direct Costs = \$936,414, NCI. Extension to 1/31/12.

FUNDED RESEARCH: (cont'd)

Fetal growth as a predictor of chronic disease risk, Tim Byers, MD, MPH, 3/1/99-2/28/02, Co-Investigator and Biostatistician, 0%, NHLBI.

Markers for Thrombotic events, Richard Marlar, Ph.D., 4/1/99-3/31/01, Co-Investigator and Biostatistician, 5%, VA.

Clinical Research in Stem Cell Transplantation, Scott Bearman, MD, 9/2000-08/2005, Co-Investigator and Biostatistician, 5%, Direct Costs = \$125,332, NCI.

UC Cancer Center Lung SPORE Biostatistics, Informatics and Bioinformatics Core, Anna E. Barón, Ph.D., 5/1/01-4/30/19, Core Director starting in 10/00, 10-25%, Total Direct Costs = \$170,749, NCI.

CD-ROM Intervention for Prostate Cancer Screening, Lori Crane, Ph.D., 09/02-9/04, Co-Investigator and Biostatistician, 10%, Direct Costs = \$281,938, CDC.

Alcohol Health Disparities in 2 Indian Populations, Doug Novins, MD, 09/15/02 - 9/14/05, Consultant and Biostatistician, 10%, Direct Costs = \$1,000,000, NIAAA.

Exercise, Physical Function, And Parkinson's Disease, Margaret Schenkman, Ph.D., 04/11/03-12//31/09, Co-Investigator and Biostatistician, 5%, Direct Costs= \$343,126, NICHD. No cost extension to June, 2011.

R21/R33-Quantitative HOX Expression as a Prognostic Marker in AML, Harry Drabkin, MD, 09/01/03-08/31/06, Co-Investigator and Biostatistician, 5%, Direct Costs = \$262,939, NCI.

Skin Cancer Prevention in a Pediatric Population, Lori Crane, Ph.D. 10/1/03-9/30/2007, Co-Investigator and Biostatistician, 10%, Direct Costs = \$463,981, NCI.

Overcoming Age-Related Barriers to Early Clinical Trials. Gail Eckhardt, MD, 8/1/2004-2/28/2005, Co-Investigator and Biostatistician, 5%, Direct Costs = \$ 869,778, NCI.

Early Detection Research Network: Biomarkers Development Laboratory, Wilbur Franklin, MD, 10/1/2004-9/30/2007, Co-Investigator and Biostatistician, 10%, Direct Costs = \$1,849,113, NCI.

Skin Cancer Prevention in a Pediatric Population, Lori Crane, Ph.D., 2/1/2010-1/31/2015 , Co-Investigator and Biostatistician, 10-15%, Direct Costs = \$1,997,715 , NCI.

The Six1/Eya Transcriptional complex as a mediator of lymphangiogenesis and lymphatic metastasis, Heide Ford, Ph.D. 04/01/2011 – 3/30/2016, Co-Investigator and Biostatistician, 5%, Direct Costs = \$207,500, NCI.

Multilevel and Longitudinal Study Sample Size Tools for Behavioral Scientists, Keith Muller, Ph.D. 12/09/2010-11/30/2014, Co-Investigator, 20%, Direct Costs = \$259,000, NIDCR.

Extension Funding: Cardiovascular Assessment, Reporting and Tracking System for Cath Labs (CART-CL) Project, John Rumsfeld, MD PhD. 01/01/2013 – 9/30/2018, Co-Investigator, 10%-45%, Direct Costs = \$1,126,000, VA OIA.

UC Cancer Center Lung SPORE Biostatistics, Project on Early Detection of Lung Cancer, York Miller, MD, 5/1/14-4/30/19, Co-PI starting in 5/14, 5-10%, Total Direct Costs = \$152,828, NCI.

Natural History of Pre-diabetic Autoimmunity, R37 DK32493, Marian Rewers. M.D. Ph.D., P.I., 04/01/2014-05/31/2020 (refunded June 3, 2016), Biostatistician, 5-10%, Total Direct Costs=\$323,683, NIDDK. Discontinued participation in June, 2018.

FUNDED RESEARCH: (cont'd)

Development and evaluation of biomarker-enhanced lung cancer risk prediction models, Gift of Life and Breath Foundation, Anna E. Barón, Ph.D. P.I., 4%, 03/01/2105-2/28/2017, Total Direct Costs = \$44,380. No-cost extension through June 30, 2017.

Multiple Autoantigens, Multiple Epitopes of Type 1 Diabetes, Marian Rewers. M.D. Ph.D., P.I., 07/15/1982-06/30/2020, Co-Investigator starting 7/15, 5%, Total Direct Costs = \$250,000, NIDDK. Discontinued participation in June, 2018.

Extension Funding: Cardiovascular Assessment, Reporting and Tracking System for Cath Labs (CART-CL) Project, Steve Waldo, MD. 10/01/2018 – 9/30/2020, Co-Investigator, 42%, VA OIA.

Extension Funding: Cardiovascular Assessment, Reporting and Tracking System for Cath Labs (CART-CL) Project, Steve Waldo, MD. 12/01/2020 – 9/30/2021, Co-Investigator, 51%, VA OIA.

Clinical Utility of Biomarkers Driven Management of Indeterminate Pulmonary Nodules, NIH/NCI, Pending, R01CA252964, Pierre Massion and Anna E. Barón, MPI, 04/01/2021-03/31/2026, 20%, Total Direct Costs = \$2,874,072. Pending (impact score at 6th percentile). Award information below.

Clinical Utility of Biomarkers Driven Management of Indeterminate Pulmonary Nodules, NIH/NCI, Pending, R01CA252964, Eric Grogan and Anna E. Barón, MPI, 05/01/2021-04/30/2026, 10%, Total Direct Costs = \$2,385,480.

Clinical utility of a combined biomarker approach to diagnose lung cancer, NIH/NCI (EDRN), 2U01CA152662-11, Eric Grogan and Stephen Deppen, MPI, 09/01/2022-08/31/2027, Co-Investigator, 8%, Total Direct Costs = \$6,274,785.

Bibliography

PUBLICATIONS in REFEREED JOURNALS: (* Resulted from student thesis.)

Complete List of Published Work in MyBibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/anna.baron.1/bibliography/47423282/public/?sort=date&direction=ascending>

1. Lairson, D.R., Barón, A.E., Swint, J.M., Greenlick, M.R., and Marks, S.D. (1980). Do-Not-Admit Versus Inpatient Surgery in an HMO: determinants of Choice and the Implications for Medical Care Costs. Health Services Research, 15(4):378-396.
2. Lawrie, G.M., Morris, G.C. Jr., Silvers, A., Wagner, W.F., Barón, A.E., Beltangady, S.S., Glaeser, D.H., and Chapman, D.W. (1982). The Influence of Residual Disease After Coronary Bypass on the Five Year Survival of 1274 Men with Coronary Artery Disease. Circulation, 66:717-723.
3. Lawrie, G.M., Morris, G.C. Jr., Calhoun, J.H., Safi, H., Zamora, J.L., Beltangady, M., Barón, A.E., Silvers, A. and Chapman, D.W. (1982). Clinical Results of Coronary Bypass in 500 Patients at Least 10 Years After Operation. Circulation: 66(suppl. 1): I-1-5.
4. Barón, A.E., Freyer, B.S., Fixler, D.E. (1985). Longitudinal Blood Pressures in Blacks, Whites and Mexican Americans During Adolescence and Early Adulthood. American Journal of Epidemiology, 123:809-817.
5. Alderman, B.W., Barón, A.E., Savitz, D.A. (1987). The Relationship Between Neighborhood Carbon Monoxide Levels and Infant Birthweight. Public Health Reports, 102:410-414.
6. Boyko, E.J., Alderman, B.W., Barón, A.E. (1988). Reference Test Errors Bias the Evaluation of Diagnostic Tests for Ischemic Heart Disease. Journal of General Internal Medicine, 3:476-481.
7. Savitz, D.A., Barón, A.E. (1989). Confounder Misclassification; Estimation of Effect and Method for Correction. American Journal of Epidemiology, 129:1062-9-1071.
8. Ackerson, L.M., Dick, R.W., Manson, S.M., and Barón, A.E. (1990). Properties of the Inventory to Diagnose Depression in American Indian Adolescents. J. Am. Acad. Child Adolesc. Psychiatry 29, 4:601-607.
9. Barra, S., Barón, A.E., Barzan, L., Caruso, G., Veronesi, A., Talamini, R., Comoretto, R., and Franceschi, S. (1990). Pilot Screening for Upper Aero-Digestive Tract Tumors in Northeastern Italy. Social and Preventive Medicine, 35:159-163.
10. Boyko, E.J., Alderman, B.W., Keane, E.M., and Barón, A.E. (1990). Effects of Childbearing on Glucose Tolerance and NIDDM Prevalence. Diabetes Care, 13:848-854.
11. Franceschi, S. Bidoli, E., Barón, A.E., and La Vecchia, C. (1990). Maize and Risk of Cancer of the Oral Cavity, Pharynx and Esophagus. Journal of the National Cancer Institute, 82:1407-1411.
12. Franceschi, S., Talamini, R., Barra, S., Barón, A.E., Negri, E., Bidoli, E., Serraino, D., and La Vecchia, C. (1990). Smoking and Drinking in Relation to Cancers of the Oral Cavity, Pharynx, Larynx, and Esophagus in Northern Italy. Cancer Research, 50:6502-6507.
13. Franceschi, S., Barón, A.E., and La Vecchia, C. (1990). The Influence of Female Hormones on Malignant Melanoma. Tumori, 76:439-449.
14. Franklin, G.M., Ringel, S.P., Jones, M., and Barón, A.E. (1990). A Prospective Study of Principal Care Among Colorado Neurologists. Neurology, 40:701-704.

PUBLICATIONS in REFEREED JOURNALS : (* Resulted from student thesis.) (cont'd)

15. Manson, S.M., Ackerson, L.M., Dick, R.W., Barón, A.E., and Fleming, C.M. (1990). Depressive Symptoms Among American Indian Adolescents : Psychometric Characteristics of the Center for Epidemiologic Studies Depressive Scale. Journal of Consulting and Clinical Psychology, 2:231-237.
16. Talamini, R., Barón, A.E., Barra, S., Bidoli, E., La Vecchia, C., Negri, E., Serraino, D., and Franceschi, S. (1990). A Case-Control Study of Risk Factors for Renal Cell Cancer in Northern Italy. Cancer Causes and Control, 1:125-131.
17. Barón, A.E. (1991). Misclassification Among Methods Used for Multiple Group Discrimination - the Effects of Distributional Properties. Statistics in Medicine, 10:757-766.
18. Franceschi, S., Bidoli, E., Barón, A.E., Barra, S., Talamini, R., Serraino, D., and La Vecchia, C. (1991). Nutrition and Cancer of the Oral Cavity and Pharynx in Northeast Italy. International Journal of Cancer, 47:20-25.
19. Neligh, G., Barón, A.E., Braun, P., and Czarnecki, M. (1991). Panic Disorder Among American Indians: A Descriptive Study. American Indian and Alaska Native Mental Health Research, 4:43-53.
20. Barra, S., Barón, A.E., Franceschi, S., Talamini, R., and La Vecchia, C. (1991). Cancer and Non-Cancer Controls in Studies on the Effect of Tobacco and Alcohol Consumption. International Journal of Epidemiology, 20:845-851.
21. Lasse, D.L., Savitz, D.A., Hamman, R.F., Barón, A.E., Brinton, L.A., and Levine, R.S. (1991). Invasive Cervical Cancer and Intrauterine Device Use. International Journal of Epidemiology, 20:865-870. *
22. McGregor, J.A., Leff, M., Orleans, M., and Barón, A.E. (1992). Fetal Gender Differences in Preterm Birth: Findings in a North American Cohort. The American Journal of Perinatology.
23. Plasencia, C.M., Barón, A.E., Alderman, B.W., and Boyko, E.J. (1992). A Method to Describe Physician Decision Thresholds and its Application in Examining the Diagnosis of Coronary Artery disease Based on Exercise Treadmill Testing. Medical Decision Making, 12:204-212. *
24. Leff, M., Orleans, M., Haverkamp, A.D., Barón, A.E., Alderman, B.W., and Freedman, W.L. (1992). The Association of Maternal Low Birth Weight and Infant Low Birth Weight in a Racially Mixed Population. Pediatric and Perinatal Epidemiology, 6:51-61. *
25. Gay, E.C., Cai, Y.H., Gale, S.M., Barón, A.E., Cruickshanks, K.J., Kostraba, J.N., and Hamman, R.F. (1992). Smokers with Insulin-Dependent Diabetes Mellitus Experience Excess Morbidity: The Colorado IDDM Registry. Diabetes Care, 15:947-952.
26. Alderman, B.W., Barón, A.E., and Savitz, D.A. (1993). Caution in the Use of Antecedents as Surrogates for Confounders. American Journal of Epidemiology, 137:1257-1272.
27. Barón, A.E., Franceschi, S., Barra, S., Talamini, R., and La Vecchia, C.A. (1993). Comparison of the Joint Effects of Alcohol and Smoking on the Risk of Cancer Across Sites in the upper Aero-Digestive Tract. Cancer Epidemiology, Biomarkers and Prevention, 2:519-523.
28. Serraino, D., Franceschi, S., Tassan, M., Barón, A.E., and Talamini, R. (1993). Cigarette Smoking Recidivism After Participation in the "Five-Day Plant to Stop Smoking" in Northeastern Italy. Preventive Medicine, 22:272-283.
29. Alderman, B.W., Bradley, C.M., Greene, C., Fernbach, S.K., and Barón, A.E. (1994). Increased Risk of Craniosynostosis with Maternal Cigarette Smoking During Pregnancy. Teratology, 50:13-18. *

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30. Miller, L., Hoffman, R., Marine, W., Barón, A.E., and Malinkovich, P. (1994). Factors for Delayed Immunization Against Measles, Mumps, and Rubella in Colorado Two-Year Olds. Pediatrics, 94:213-219. *
31. Barbour, L., Kick, S., Steiner, J., LoVerde, M.E., Heddleston, L.N., Lear, J.L., Barón, A.E., and Barton, P.L. (1994). A Prospective Study of Heparin-Induced Osteoporosis in Pregnancy Using Bone Densitometry. American Journal of Obstetrics and Gynecology, 170:862-869. *
32. Marine, W.M., Kerwin, E.M., Moore, E.E., Lezotte, D.C., Barón, A.E., Grosso, M.A. (1994). Mandatory Seatbelts: Epidemiologic, Financial, and Medical Rationale from the Colorado Matched Pairs Study. Journal of Trauma, 36:96-100.
33. Alderman, B.W., Zamudio, S., Barón, A.E., Joshua, S.C., Fernbach, S.K., Greene, C., and Mangione, E.J. (1995). Increased Risk of Craniosynostosis with Higher Antenatal Maternal Altitude. International Journal of Epidemiology, 24:420-426.
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16. O'Connor, C., Hiltz, A., Barron, M., Zeng, C., Barón, A.E., McSweeney, P. Clinical Experience of Monotherapy vs. Combination Antifungal Therapy for the Treatment of Invasive Aspergillus (IA) in Patients (Pts) with a Hematologic Malignancy (HM), Solid Organ Transplant (SOT), or Hematopoietic Stem Cell Transplant (HSCT). Abstract submitted to ICAAC; accepted for poster presentation September 14-17, 2003; Chicago IL.

PAPERS and POSTERS PRESENTED at SCIENTIFIC MEETINGS:

1. Barón, A.E., Lairson, D.R., and Swint, J.M. Inpatient vs. Do-Not-Admit Surgery: A Cost Analysis. Oral Presentation at the Texas Public Health Association meetings, Houston, Texas, 1979.
2. Barón, A.E., Lairson, D.R., and Marsden, J.R. Demand Functions and Health Planning in an HMO. Oral Presentation at the Texas Public Health Association meetings, Galveston, Texas, March 1982.
3. Barón, A.E. Distributional Properties Affecting Classification in Multiple Group Discrimination. Oral Presentation at the American Statistical Association Joint Meetings, Philadelphia, Pennsylvania, August 1984.
4. Barón, A.E., Manson, S.M., and Ackerson, L.M. Depressive Symptoms in Older American Indians with Chronic Disease: Some Psychometric Considerations. Poster presentation at Mental disorders in General Health Care Settings: A research Conference, Seattle, Washington, June 1987.
5. Barón, A.E. Misclassification Among Methods Used for Multiple Group Discrimination --The Effects of Distributional Properties. Oral Presentation at the International Biometric Conference, Namur, Belgium, July 1988.
6. Barón, A.E., Manson, S.M., and Ackerson, L.M. Subjective Well-Being and Social Desirability in Older American Indians with Chronic Disease. Oral Presentation at the Epidemiology Research Exchange, Department of Preventive Medicine and Biometrics, November 1988.
7. Barón, A.E., Franceschi, S., Barra, S., Talamini, R., and La Vecchia, C. The Use of Polychotomous Logistic Regression to Compare the Joint Effects of Alcohol and Smoking on the Risk of Cancer Across Sites in the Upper Aero-Digestive Tract. Presented at the Epidemiology Research Exchange, Department of Preventive Medicine and Biometrics, November 1991.
8. Barón, A.E., Koester, S. and Glanz, J. Socially Focused Network Interventions in Injection Drug Users. Poster Presentation at the Meetings of the International Epidemiology Association, Florence, Italy, September 1999.
9. Barón, A.E. Implementing and Evaluating a Socially Focused Intervention in Injection Drug Users: A Dance of Quantitative and Qualitative Methods. Invited paper at the Meetings of the Society for the Advancement of Chicanos and Native Americans in Science, Portland, Oregon, October 1999.
10. Barón, A.E., and Marshall, G. Linear Discriminant Models for Unbalanced Longitudinal Data. Invited paper at the Joint Statistical Meetings, Indianapolis, Indiana, August 2000.
11. Barón, A.E., and Marshall, G. Classification of Pregnancy Outcome with Longitudinal Hormone Data. Invited paper at the Meetings of the Society for the Advancement of Chicanos and Native Americans in Science, Atlanta, Georgia, October 2000.
12. Barón, A.E. Windows of Teaching Opportunity: Mentoring and Thesis Advising in Biostatistics and Public Health. Invited paper at the Joint Statistics Meetings – Section on Teaching of Statistics in the Health Sciences, New York City, August 2002.

PAPERS and POSTERS PRESENTED at SCIENTIFIC MEETINGS: (cont'd)

13. Novins, D.K. and Barón, A.E. Hazards for Progression: Discrete Survival Analysis Applied to Indian Adolescent Substance Use. Invited paper at the meeting of the Society for the Advancement of Chicanos and Native Americans in Science, Anaheim California, September 2002.
14. Barón, A.E., Glanz, J., Koester, S.K. Implementing and Evaluating a Socially Focused Intervention in Injection Drug Users: A Dance of Quantitative and Qualitative Methods. Invited paper at the NCI-sponsored conference - Mixed Methodologies: using Context and Metrics for Health Behavior Change, Denver, Colorado, August, 2004.
15. Barón, A.E., Plummer, M., Mikel, A., Colin, D., Pawlita, M., Franceschi, S. Multiplex Serology for *Helicobacter pylori* and Histology of Pre-Cancerous Gastric Lesions in a High Risk Population. Poster Presentation at the AACR Frontiers in Cancer Prevention Research, Washington DC, November, 2008.
16. Barón, A.E., Kreidler, S.M., Glueck, D.H., Muller, K.E. Power and Sample Size for the Most Common Hypotheses in Mixed Models. Oral Presentation at the WNAR of the International Biometric Society, Ft. Collins, Colorado, June, 2012.
17. Barón, A.E., Kreidler, S.M., Glueck, D.H., Muller, K.E. Power and Sample Size for the Most Common Hypotheses in Mixed Models. Oral Presentation at the American Psychological Association, Orlando, Florida, August, 2012.
18. Barón, A.E., Kreidler, S.M., Glueck, D.H., Muller, K.E. Power and Sample Size for the Most Common Hypotheses in Mixed Models. Oral Presentation at the Society for Behavioral Medicine, San Francisco, California, March, 2013.
19. Barón, A.E., Kreidler, S.M., Munjal, A., Muller, K.E., Glueck, D.H. Selecting a Valid Sample Size for Longitudinal and Multilevel Studies. Poster Presentation at the International Biometric Conference, Florence, Italy, July 2014.
20. Barón, A.E., Kako, S.L., Feser, W.J., Merrick D., Garg, K., Malkoski, S., Pretzel, S.M., Byers, T., Siegfried, J.M., Franklin, W.A., Miller, Y.E., Wolf, H.J., Varella-Garcia, M. Clinical Utility of Chromosomal Aneusomy in High Risk Individuals. Oral Presentation at the NCI Lung SPORE Workshop, Rockville, Maryland, June 2015.
21. Barón, A.E., Kako, S.L., Feser, W.J., Merrick D., Garg, K., Malkoski, S., Pretzel, S.M., Byers, T., Siegfried, J.M., Franklin, W.A., Miller, Y.E., Wolf, H.J., Varella-Garcia, M. Clinical Utility of Chromosomal Aneusomy in High Risk Individuals. Oral Presentation at the World Conference on Lung Cancer, Denver, Colorado, September 2015.
22. Grogan, E.A. and Barón, A.E. (Co-Presenters). Clinical Utility Trial of a Combined Biomarker Model in Intermediate Risk Pulmonary Nodules - Overview and Statistical Considerations. Oral Presentation to the Lung Cancer Group of the NCI Early Detection Research Network, 39th EDRN Steering Committee Meeting, Seattle, Washington, November 2022.

Grand Rounds:

March, 1995 Longitudinal Discriminant Analysis, Department of Preventive Medicine and Biometrics,
University of Colorado Health Sciences Center, Denver, Colorado.

Invited Seminars:

January, 1997 Linear Discriminant Models for Unbalanced Longitudinal Data, Department of Mathematical
and Computer Sciences, Colorado School of Mines.

March, 2001 Linear and Quadratic Discriminant Models for Unbalanced Longitudinal Data, Department of
Statistics, University of Wyoming.

April 2003 Linear and Quadratic Discriminant Models for Unbalanced Longitudinal Data, Department of
Statistics, University of Colorado, Denver.