

CURRICULUM VITAE

JIANWEN CAI

(April 2024)

Business Address:

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Education:

1992 - Ph.D. (Biostatistics), University of Washington, Seattle, Washington.
1989 - M.S. (Biostatistics), University of Washington, Seattle, Washington.
1985 - B.S. (Mathematics), Shandong University, Jinan, P. R. China.

Positions:

Cary C. Boshamer Distinguished Professor:	Department of Biostatistics, University of North Carolina at Chapel Hill,	2015-present.
Interim Co-Chair:	Department of Biostatistics, University of North Carolina at Chapel Hill,	2020-2021.
Interim Chair:	Department of Biostatistics, University of North Carolina at Chapel Hill,	2016 - 2017.
Vice Chair:	Department of Biostatistics, University of North Carolina at Chapel Hill,	2012-2016; 2017-2020.
Co-Interim Director:	Collaborative Studies Coordinating Center (CSCC), Department of Biostatistics, University of North Carolina at Chapel Hill,	2011-2012.
Associate Chair:	Department of Biostatistics, University of North Carolina at Chapel Hill,	2006-2012.
Interim Chair:	Department of Biostatistics, University of North Carolina at Chapel Hill,	2006.

Professor:	Department of Biostatistics, University of North Carolina at Chapel Hill,	2004 - 2015.
Associate Professor:	Department of Biostatistics, University of North Carolina at Chapel Hill,	1999 - 2004.
Assistant Professor:	Department of Biostatistics, University of North Carolina at Chapel Hill,	1992 - 1999.
Research Associate:	Fred Hutchinson Cancer Research Center,	1992 - 1992.
Research Assistant:	Cardiovascular Health Study, University of Washington,	1988 - 1990.
	Fred Hutchinson Cancer Research Center,	1990 - 1992.
Teaching Assistant:	Department of Biostatistics, University of Washington,	1988 - 1990.

Professional Societies:

American Statistical Association (ASA)
 International Biometric Society (ENAR)
 Institute of Mathematical Statistics (IMS)
 International Chinese Statistical Association (ICSA, life time member)

Research Interests:

Survival Analysis and Regression Models, Design and Analysis of Clinical Trials,
 Analysis of Correlated Responses, Case-Cohort Study Design, Epidemiological Models,
 Cardiovascular Disease Research, Dental Research, Geriatric Research,
 Disease Prevention Research, Hispanic/Latino Health, Obesity Research.

Awards/Honors:

UNC School of Public Health McGavran Award for Excellence in Teaching, 2004
 American Statistical Association Fellow, 2005
 Elected Member of Delta Omega Honorary Public Health Society, 2008
 Institute of Mathematical Statistics Fellow, 2009.

Professional Service:

Associate Editor: Biometrics: 2000-2016.
Lifetime Data Analysis: 2002-present.
Statistics in Biosciences: 2009-present.
Journal of the American Statistical Association (A&C): 2012-2018.
Journal of the Royal Statistical Society, Series B: 2020-2023.
New England Journal of Statistics in Data Science: 2021-present.

Board Member: ENAR Regional Advisory Board, 1996-1998.
ENAR Regional Committee (RECOM), 2008-2010.
ICSA Board Member, 2009-2011.

Treasurer/Secretary: ASA Biometrics Section, 2007-2008

Chair Elect/Chair
/Past Chair: ASA Biometrics Section, 2012-2014
ASA Lifetime Data Science Section, 2018-2020

President Elect/President
/Past President: ENAR, 2015-2017

Member: ENAR Student Travel Award Committee, 2001, 2005-2008
ASA Committee on International Relations, 2007-2009
ASA Samuel S. Wilks Memorial Medal Committee, 2012-2014
COPSS FN David Award Committee, 2012-2016 (Chair, 2015)
ASA Biometrics Section Byar Award Committee, 2011-2014 (Chair, 2014)
Committee of Presidents of Statistical Societies, 2015-2017
ASA Fellowship Committee, 2018-2020 (Chair, 2020)
ASA COPSS Distinguished Achievement Award and
Lectureship Committee, 2021-2024 (Chair, 2022)

Chair: ENAR Education Committee, 2015-2016
ENAR Nomination Committee, 2017
ENAR Distinguished Student Paper Award Committee, 2017
ASA LIDS Nomination Committee, 2020

Short Courses: Analysis of Recurrent Event Data, ASA LIDS conference, 2023

General
Methodology Chair: 2006 Joint Statistical Meetings Program Committee, JSM.

Program Committee
Member: First Joint Biostatistics Symposium in China, 2010

Second Joint Biostatistics Symposium in China, 2012
Third Joint Biostatistics Symposium in China, 2014
Fourth Joint Biostatistics Symposium in China, 2016
10th ICSA International Conference, 2016
The ASA LiDA-IG 2017 Conference, 2017
Fifth Joint Biostatistics Symposium in China, 2018
The ASA LiDA-IG 2019 Conference, 2018-2019
ICSA-China International Conference, 2018
12th ICSA International Conference in Hong Kong, 2022-2023

Organizing Committee

Chair for Symposium: Emerging Methodological Issues in Population-based
Chronic Disease Research, Seattle, 2011

Referee:

Annals of Statistics
Biometrics
Biometrika
Biostatistics
Communication in Statistics
Computational Statistics and Data Analysis
Controlled Clinical Trials
Epidemiology
International Journal of Epidemiology
Journal of American Statistical Association
Journal of Biopharmaceutical Statistics
Journal of Multivariate Analysis
Journal of Nonparametric Statistics
Journal of Royal Statistical Society, Series B
Journal of Statistical Computation and Simulation
Journal of Statistical Planning and Inference
Lifetime Data Analysis
Nonlinearity in Biology, Toxicology and Medicine
Psychological Methods
Scandinavian Journal of Statistics
Statistics in Biopharmaceutical Research
Statistics in Medicine
Statistical Sinica

Reviewer:

National Science Foundation, 1998, 2002, 2004
Research Grant Council (RGC) of Hong Kong 2012
The Daniel Shiran Memorial Research Prize, Israel, 2009, 2013, 2016

Member: NIH Statistics Study Section, October 1998
NIH MBRS Review Panel, October 2002
NIH MBRS Review Panel, February 2004
NIH Epidemiology of Cancer (EPIC) Study Section,
March and October 2006, October 2007, October 2008
NIH Epidemiology of Cancer (EPIC) Study Section,
regular member, 2009-2013
Protocol Review Committee (PRC) for the NIH Heart Failure Network
DSMB for the HT Cervix trial, 2007-present
Women's Health Initiative OSMB, 2011-2014

Courses Taught:

Bios 107: "Matrix Theory in Biostatistics", Summer, 1993 and 1994.
Bios 180: "Introductory Survival Analysis", Fall, 1993-1995; Spring 1997-2004.
Bios 262/762: "Advance Linear Models I", Fall, 2005-2009.
Bios 342: "Practice in Statistical Consulting", Fall, 1994; Spring and Fall, 1996; Fall 2000, 2002.
Bios 600: "Principles of Statistical Inference", Fall, 2015.
Bios 660/672: "Probability and Statistical Inference I", Fall 2018, 2021, 2023.
Bios 780: "Theory & Methods for Survival Analysis", Spring 2011, 2012, Fall, 2013, 2014,
2020, 2022.

Principal Investigator/Project Leader on Grants/Contracts:

- 75N92019D00010, PI, National Heart, Lung and Blood Institute, 11/30/2018-11/29/25, Hispanic Community Health Study-Study of Latinos (HCHS-SOL): Coordinating Center.
- 1R01 DK137254-01A1, UNC Subcontract PI to University of Florida PI Zhao, NIH, 09/2023-05/31/2026, Sociocultural Factors, DNA Methylation and Risk of Diabetes in Hispanic/Latinos.
- R01 CA255082, UNC Subcontract PI to University of Washington PI Lindstroem, NIH, 02/2022-01/2027, The Impact of Lifestyle and Genetic Factors on Mammographic Density in a Cohort of Hispanic Women.
- R01 HL152475, UNC Subcontract PI to University of Pittsburgh Medical Center PI Celedon, NIH, 06/2021-05/2026, Nasal Epithelial Epigenomics and Transcriptomics and Asthma in Hispanic Adults.

- R01 HL152692, UNC Subcontract PI to University of Illinois at Chicago PIs Daviglius (contact), Budoff, Gallo, Hou, NIH, 06/2021-05/2025, Coronary Artery Calcium and its Association with Protective/Risk Factors and Epigenetic Patterns in Diverse US Hispanic/Latino Adults.
- RF1 NS127266, UNC Subcontract PI to University of Minnesota PIs Chen (contact), Gonzalez, Matsushita, NIH, 04/2022-03/2025, Cognitive Aging, Brain Morphology, and Arrhythmias in Hispanics/Latinos: Implications for Prevention and Management of Alzheimer's Disease-Related Dementias.
- R01 ES030994, UNC Subcontract PI to University of Washington PI Kaufman, NIH, 9/22/20-6/30/25, SOLAir: Environmental Factors and Diabetes Development in Latinos.
- RTI22-312-0217571-66178, UNC Subcontract co-PI to Columbia University PI Oelsner, NIH, 10/1/20-02/28/2025, Collaborative Cohort of Cohorts for COVID Research.
- 1 UG1 EY030410-01, UNC Subcontract PI to University of Illinois at Chicago PI Joslin, 9/1/2019-7/31/24, Hispanic Community Health Study/Study of Latinos (HCHS/SOL) Eye Study.
- R01 DK117209, UNC Subcontract PI to University of Texas Health Sciences Center PI Li, NIH, 6/19/2020-4/30/24, Statistical Modeling and Validation for Tackling Risk Prediction with Competing Risks by Integrating Multiple Longitudinal Biomarkers.
- R01 HL144707, UNC Subcontract PI to Northern California Institute for Research and Education PI Kizer, NIH, 9/1/19-8/31/23, Non-alcoholic Fatty Liver Disease and Cardiovascular Disease in Hispanics/Latinos.
- R01 MD013320, UNC subcontract PI for Emory University PI Suglia, NIH, 5/3/2019-12/31/23, Social Stress Epigenetics and Cardio-Metabolic Health Among Latinos.
- P01 CA142538, Project 1 Leader, 4/1/2015-3/31/21, Statistical Methods for Cancer Clinical Trials - Project 1: Innovative Biomarker-Integrated Clinical Trial Design and Analysis.
- R01 ES025159, UNC Subcontract PI to University of Illinois at Chicago PI Persky, NIH, 6/1/2016-5/31/20, Persistent Organic Pollutants, Endogenous Hormones and Diabetes in Latinos.
- HHSN2682013000011, PI, National Heart, Lung and Blood Institute, 11/30/2013-11/29/2018, Hispanic Community Health Study-Study of Latinos (HCHS-SOL): Coordinating Center.
- P01 CA142538, Project 1 Leader, 4/1/2010-3/31/2015, Statistical Methods for Cancer Clinical Trials - Project 1: Innovative Biomarker-Integrated Clinical Trial Design and Analysis.

- HHSN268200625233C, PI, National Heart, Lung and Blood Institute, 2011-2013, Hispanic Community Health Study-Study of Latinos (HCHS-SOL): Coordinating Center.
- 5 R01 HL-57444, PI, NIH, 2007-2012, Competing renewal for R01 HL-57444, Statistical Problems in Multivariate Survival Analysis.
- 2 R01 HL-57444, PI, NIH, 2002-2007, Competing renewal for R29 HL-57444, Statistical Problems in Multivariate Survival Analysis.
- 1 R01 HL-69720, PI, NIH, 2001-2006, Semi-parametric Methods for Multivariate Survival Data.
- 1 R29 HL-57444, PI, NIH, 1997-2001, Statistical Problems in Multivariate Survival Analysis.
- UNC Research Council Award, 2000 - 2002, Statistical Methods for Analyzing Recurrent Events Data.
- UNC Junior Faculty Development Award, 1994, Statistical Methods for Analyzing Censored Multivariate Survival Data.
- UNC Research Council Award, 1993 - 1995, Estimating Equations for Correlated Failure Time Data.

Co-Investigator/Statistician on Grants/Contracts:

- 1R01 EY033907-01A1 (PI: Gower), 02/01/2023-1/31/2028, National Eye Institute, Characterizing Vision Impairment and Its Impact on Independence in Older Adults.
- R01 DK113415 (PI: Franceschini), 9/24/2017-4/30/24, National Institute of Diabetes and Digestive and Kidney Diseases, Leveraging Ancestry to Map Kidney Loci.
- R01 CA211093 (PI: Nichols), 8/5/2019-7/31/23, E. K. Shriver National Institute of Child Health and Human Development, In Vitro Fertilization Outcomes after Cancer.
- R01 DK117445 (PI: Franceschini), 9/22/2018-7/31/23, National Institute of Diabetes and Digestive and Kidney Diseases, Genetics of Kidney Disease in Diverse Populations.
- R01 FD006030 (PI: Ataga), 9/1/2017-8/31/22, Food & Drug Administration, The Association of Biomarkers of Endothelial Function with Prospective Changes in Kidney Function in Sickle Cell Anemia.
- P30 ES010126 (PI: Troester), 4/1/2016-3/31/21, National Institute of Environmental Health Sciences, UNC-CH Center for Environmental Health & Susceptibility - Biostatistics & Bioinformatics Facility Core.
- 5 U01 HL117659 (PI: Ataga), 8/15/2013-5/31/19 National Heart, Lung and Blood Institute, Targeted Anticoagulant Therapy for Sickle Cell Disease.

- 5 U01 HL103561 (PI: Stevens), 9/1/2010-4/30/19, National Heart, Lung and Blood Institute, Childhood Obesity Prevention and Treatment Research Coordinating Unit.
- 5 R01 ES021900-11 (PI: Zhou), 9/1/2013-5/31/17, National Institute of Environmental Health Sciences, Statistical Methods for Outcome-Dependent Sampling.
- 5 R01 HL111659 (PI: Ataga), 1/1/2012-12/31/17 National Heart, Lung and Blood Institute, Endothelial Dysfunction in the Pathogenesis of Sickle Cell Nephropathy.
- 02-2014-080 (PI: Nichols), Avon Foundation, 1/1/2015-12/31/16, Pregnancy Associated Breast Cancer: A Pooled Analysis of 18 Prospective Cohorts.
- 1 R01 DK097046 (PI: Stevens), 1/1/2014-12/31/16, National Institute of Diabetes and Digestive and Kidney, Percent Body Fat Equations for the United States Population.
- Duke Endowment (PI: Kizer), 1/1/2012-5/30/16, Proposal to Implement a Model of Post-Emergency Department Care to Reduce ED/Hospital Readmissions for the Elderly.
- 8 UL1 TR000083 (PI: Runge), 5/19/2008-4/30/14, National Center for Research Resources, UNC Clinical Translation Science Award - Biostatistics Core.
- John A. Hartford Foundation (PI: Busby-Whitehead), 9/16/2011-6/30/14, Utility of Home Visits to Reduce Costs and Readmission Rates: A Database Study.
- American Federation for Aging Research (PI: Busby-Whitehead), 7/1/2013-6/30/14, John A. Hartford Foundation's Center of Excellence in Geriatric Medicine and Training.
- 5 R21 HL097374 (PI: Stevens), 4/1/2010-4/30/13, National Heart, Lung and Blood Institute, State-level Policies, Demographics and Behaviors Associated with Youth Obesity.
- 1 ULI RR025747 (PI: A. Pisano), 2008-2013, National Center for Research Resources, UNC Clinical Translation Science Award-Biostatistics Core.
- 5 RC1 HL099429 (PI: Stevens), 9/30/2009-7/31/12, National Heart, Lung and Blood Institute, Weight-Related Measures and CVD in African American and White Adults.
- 3 P30 DK 056350-05S2, NIH/NIDDK, Obesity in Asians (J. Stevens, P.I.), 2004-2011.
- P3004209 (PI: Ammerman), 11/1/2007-4/30/10, W.K. Kellogg Foundation, Evaluation of the National Farm to School Network.
- Lance Armstrong Foundation, Quality of Life Among African-American Head and Neck Cancer Survivors (A. Olshan, P.I.), 2007-2010.
- 5 R01 HD050981, National Institute of Child Health, Primary Care and Communities Tackling Obesity in Kids (A. Ammerman, P.I.), 2005-2010.

- 5 R21 CA125735, National Cancer Institute, Development of a tool to measure food availability in the home (J. Stevens, P.I.), 2006-2009.
- S3521-24/26 (PI: Goeppinger), 10/1/2005-6/30/09, Assoc/Schools of Public Health, Arthritis Self Management Education - Dose Response.
- 5 U48 DP000059, Centers for Disease Control, UNC Center for Health Promotion and Disease Prevention-Biostatistical Support Unit (A. Ammerman, P.I.), 2004-2009.
- 5U48 DP000059, National Center for Chronic Disease Prevention and Health Promotion, Increasing CRC Screening in Urban African American Communities via Churches, (M. Campbell, P.I.), 2006-2009.
- 1 R21 HL089422, NIH, Environmental Determinants of Sleep Disturbance: Role of Ambient Air Pollution (J.C. Chen, P.I.), 2007-2009.
- 5 R01 DP000102, National Center for Chronic Disease Prevention and Health Promotion, Interventions to Control Obesity in Community Colleges, (L. Linnan, P.I.), 2004-2008.
- PA-03-015, NIH, Weight Loss and CVD Risk Factors (J. Stevens, P.I.), 2004-2006.
- R03 AG022353, NIH, Obesity in early and middle adulthood and retirement (J. Stevens, P.I.), 2003-2006.
- R03 AG022062, NIH, Obesity, diet and functional health in African-Americans (J. Stevens, P.I.), 2003-2005.
- R01 DE-13807, NIH, Endodontic Inflammation and Cardiovascular Outcomes (D. Caplan, P.I.), 2001-2003.
- SIP 9, CDC, Fitness, Fatness and Mortality (J. Stevens, P.I.), 2000-2003.
- American Heart Association, Fat Patterning and Intima-Media Thickness Change (J. Stevens, P.I.), 2000-2001.
- N01 HV-59224, NIH, International Component for the Collaborative Studies Coordinating Center (C.E. Davis, P.I.), 1996-2001.
- HL-07773, Statistical Aspects of CVD Clinical Trials (C.E. Davis, P.I.), 1995-2000.
- Electric Power Research Institute, Study on Electric Utility Workers (D. Savitz, P.I.), 1999.
- R01 DK-50776, NIH, The Impact of Age on Optimal Body Weight (J. Stevens, P.I.), 1995-1999.
- Laboratories Fournier, The Diabetes and Atherosclerosis Intervention Study (C.E. Davis, P.I.), 1993-1996.

- HC-55015, NIH, Atherosclerosis Risk in Communities (L.E. Chambless, P.I.), 1992-1996.

Student Advisory/Co-Advisory:

Doctoral:

- Gary Lu (PhD), Department of Biostatistics, 2023 – present. (co-advisor with S. Zhao)
- Yihan Tang (PhD), Department of Biostatistics, 2023 – present. (co-advisor with Q. Zhou)
- Haolin (Leo) Li (PhD), Department of Biostatistics, 2021 – present. (co-advisor with H. Zhou)
- Jonathan Zhang (PhD), Department of Biostatistics, 2021 – present. (co-advisor with X. Tan)
- Tamy Harumy Moraes Tsujimoto (PhD), “Statistical Methods for Receiver Operating Characteristic (ROC) Curves in Complex Sampling Surveys”, Department of Biostatistics, 2020 – 2022.
- Victor Ritter (PhD), “Time-to-Event Methods for Complex Survey Data with Focus on Non- and Semi- Parametric Inference for National Health Surveys”, Department of Biostatistics, 2020 – 2021.
- Busola Sanusi (PhD), “Statistical Methods for Marked Survival Data in the Presence of Dependent Censoring”, Department of Biostatistics, 2017 – 2021. (co-advisor with M. Hudegens)
- Benjamin Langworthy (PhD), “Extensions to Canonical Correlation Analysis and Principal Components Analysis with Applications to Survival and Brain Imaging Data”, Department of Biostatistics, 2020. (co-advisor with M. Kosorok)
- Adane Wogu (PhD), “Statistical Methods for Competing Risks in Case-Cohort Studies”, Department of Biostatistics, 2015 – 2020.
- Nicole Butera (PhD), “Statistical Methods for Imperfect Data”, Department of Biostatistics, 2017 – 2019.
- Poulami Maitra (PhD). “Statistical Methods for Data from Case-Cohort Studies”, Department of Biostatistics, 2015 – 2018.
- Yinghao Pan (PhD): “Secondary Analysis in Outcome-Dependent-Sampling Designs”, Department of Biostatistics, 2015 – 2017. (co-advisor with H. Zhou)
- Yu Deng (PhD): “Generalized Change-Point Hazard Models with Censored Data”, Department of Biostatistics, 2013 – 2016. (co-advisor with D. Zeng)

- Ai (Andy) Ni (PhD): “Variable Selection for Case-Cohort Studies with Failure Time Outcome”, Department of Biostatistics, 2012 – 2015.
2014 ENAR Student Travel Award winner.
2015 ASA Epidemiology Section Student Paper Award winner.
First job: Assistant Member at Memorial Sloan Kettering Cancer Center
- Fang-Shu Ou (PhD): “Quantile Regression Models for Interval-censored Failure Time Data”, Department of Biostatistics, 2012 – 2015. (co-advisor with D. Zeng)
2014 ENAR Student Travel Award winner.
2015 ENAR Poster Award winner.
First job: Assistant Professor at Mayo Clinic
- Hongtao Zhang (PhD): “Statistical Methods for Correlated Data from Observational Studies”, Department of Biostatistics, 2011 – 2015. (co-advisor with H. Zhou)
First Job: AbbVie Pharmaceutical Research and Development
- Hana Lee (PhD): “Marginal Structural Cox Models with Case-cohort Sampling”, Department of Biostatistics, 2011 – 2013. (co-advisor with M. Hudgens)
First job: Tenure track assistant professor at Brown University.
- Naomi Brownstein (PhD): “Analysis of Time-to-Event Data, Intermediate Phenotypes, and Sparse Factors in the OPPERA Study”, Department of Biostatistics, 2011 – 2013. (co-advisor with E. Bair)
First job: postdoc fellow at National High Magnetic Field Laboratory, Florida State University
- SoYoung Kim (Ph.D): “More efficient estimators for case-cohort studies with univariate and multivariate failure times” Department of Biostatistics, 2010 – 2013.
2012 ASA Biometrics Section Student Paper Award winner.
First job: postdoc fellow at Fred Hutchison Cancer Research Center
- Shankar Viswanathan (DrPH): “Statistical Methods for Recurrent Events Data in the Presence of a Terminal Event and Missing Covariate Information”, Department of Biostatistics, 2005 – 2011.
First job: assistant professor at Albert Einstein College of Medicine
- Jaeun Choi (Ph.D): “Statistical Methods for Joint Analysis of Survival Time and Longitudinal Data”, Department of Biostatistics, 2006 – 2011. (co-advisor with Dr. D. Zeng)
2010 ASA Biometrics Section Student Paper Award winner.
First job: postdoc fellow at Harvard University

- Xiaoyan Wang (PhD): “Semiparametric Regression Model for Recurrent and Terminal Event Data”, Department of Biostatistics, 2004 – 2010. (co-advisor with Dr. H. Zhou)
First job: Senior Statistician at the University of California - Los Angeles
- Sangwook Kang (Ph.D): “Statistical Methods for Case-Control and Case-Cohort Studies with Possibly Correlated Failure Time Data”, Department of Biostatistics, 2004 – 2007.
First Job: tenure track Assistant Professor in the Department of Epidemiology and Biostatistics at the University of Georgia.
- Leila Amorim (DrPH): “Estimating Time-Varying Treatment Effect for Recurrent Childhood Diseases”, Department of Biostatistics, 2003 – 2006. (co-advisor with Dr. D. Zeng)
First job: Assistant Professor at Universidade Federal da Bahia
- Guosheng Yin (Ph.D): “Quantile Inference, Regression and Additive Hazards Models in Multivariate Survival Analysis”, Department of Biostatistics, 2001 – 2003.
2003 ENAR Student Travel Award winner.
2002 R.L. Anderson Student Travel Award winner.
First Job: tenure track Assistant Professor in the Department of Biostatistics at the MD Anderson Cancer Center, Houston, TX.
- Lan Kong (Ph.D): “Analysis of Failure Time Data from Case-Cohort Studies with Semiparametric Transformation Models”, Department of Biostatistics, 2000 – 2003. (co-advisor with Dr. P.K. Sen)
First Job: tenure track Assistant Professor in the Department of Biostatistics at the University of Pittsburgh.
- Doug Schaubel (Ph.D): “Semiparametric Rate and Hazard Regression Methods for Sequentially Ordered Multivariate Failure Time Data”, Department of Biostatistics, 2000 – 2002.
2003 School of Public Health’s *Bernard G. Greenberg Award* winner
2003 Biostatistics *Barry H. Margolin Award* for Excellence in Doctoral Research winner
2002 ENAR Student Travel Award winner.
2002 ASA (Health Policy Statistical Section) Student Paper Competition winner.
First Job: tenure track Assistant Professor in the Department of Biostatistics at the University of Michigan.
- Jane Monaco (DrPH): “Bootstrap Analysis of Multivariate Failure-Time Data”, Department of Biostatistics, 2000 – 2003. (co-advisor with Dr. J. Grizzle)
First Job: Clinical Assistant Professor in the Department of Biostatistics at the University of North Carolina at Chapel Hill.

- Rosalie C. Dominik (DrPH): “Statistical Methods for Emergency Contraception”, Department of Biostatistics, 1997 – 2000. (co-advisor with Dr. H. Zhou).
2001 School of Public Health’s *Bernard G. Greenberg Award* winner;
2001 Biostatistics *Barry H. Margolin Award* for Excellence in Doctoral Research winner
First Job: Director of Biostatistics at Family Health International, Research Triangle Park, NC.
- Dina M. Schreinemachers (DrPH): “Multistat Survival Analysis”, Department of Biostatistics, 1996 – 1998. (co-advisor with Dr. C.E. Davis).
First Job: Health Scientist at US EPA, Research Triangle Park, NC.
- Wendy F. Greene (Ph.D): “Measurement Error in Multivariate Survival Analysis”, Department of Biostatistics, 1998 – 2000.
2001 ENAR Student Travel Award winner.
First Job: Senior Biostatistician at Rho, Inc, Chapel Hill, NC.
- Ming Zhong (Ph.D): “Correcting Measurement Error in Cox Proportional Hazard Model”, Department of Biostatistics, 1994 – 2000. (co-advisor with Dr. P.K. Sen).
1996 ENAR Student Travel Award winner.
First Job: Senior Statistician at ALZA Corp, Mountain View, CA.
- Limin X. Clegg (Ph.D): “Marginal Approach to Multivariate Failure Time Data with Generalized Dependence Structure”, Department of Biostatistics, 1995 – 1997. (co-advisor with Dr. P.K. Sen).
1998 Biostatistics *Barry H. Margolin Award* for Excellence in Doctoral Research winner
1998 ENAR Student Travel Award winner.
First job: Mathematical Statistician at National Cancer Institute of NIH.

Master:

- Yihan Tang (MS): “Estimating the incidence rate in the presence of interval censored data from a complex survey design”, Department of Biostatistics, 2020-2021.
- Michael Steffan (MS): “Sample Size/Power Calculation for Case-Cohort Studies with a Continuous Effect”, Department of Biostatistics, 2019-2020.
- Yu Deng (MS): “Empirical comparison of small sample performance for logrank test and resampling methods with high censoring rate”, Department of Biostatistics, 2011-2013.
- Xin Zhou (MS): “Practical use of Inverse Probability of Censoring Weighted (IPCW) methods to correct for informative censorship”, Department of Biostatistics, 2011-2013. (co-advisor with Dr. R. Dominik)

- Andrew Peng (MS): “Correcting for Informative Censoring in a Schizophrenia Study with IPCW Log-Rank Tests”, Department of Biostatistics, 2010-2011. (co-advisor with Dr. R. Dominik)
- Naomi Brownstein (MS): “Tests of Trend between Disease Outcomes & Ordinal Covariates”, Department of Biostatistics, 2009-2010.
Biostatistics 2011 Best Master’s paper award.
- Che-Chin Lie (MS): “Differentiating Tumor Malignancy using Vessel Attributes: a Case Study with Brain Image Data”, Department of Biostatistics, 2008. (co-advisor with Dr. D. Zeng)
- Zhaowei Hua (MS): “Comparison of Cure Rate Models”, Department of Biostatistics, 2006 - 2007.
- Junyuan Xiong (MS): “Comparison of Estimates for Probability, Relative Risk, and Risk Difference Based on Logistic, Poisson, Log-binomial and Binomial Models”, Department of Biostatistics, 2005 - 2006.
- Hyunsook Chin (MS): “Analysis of Recurrent Relapses for Patients with ANCA-associated Vasculitis”, Department of Biostatistics, 2004.
- Hongjian Li (MS): “General Linear Mixed Model for Correlated Failure Time Data”, Department of Biostatistics, 2002.
- Yawei Zhang (MS): “Comparison of Proportional Hazards and Poisson Models Using Simulated Data”, Department of Biostatistics, 2001.
- Yan Fang (MS): “Does Excluding the First Few Years of Death Eliminate the U-shaped Relationship Between BMI and Mortality?”, Department of Biostatistics, 1999 — 2000.
- Hong Liu (MS): “Small Sample Properties for Logrank Test for Correlated Failure Time Data”, Department of Biostatistics, 1999 – 2000.
- Xiang Qin (MS): “Rate Ratio Estimation Using Parametric Proportional Hazards Model in Case-Cohort Design”, Department of Biostatistics, 1998 – 1999.
- Brian Neelon (MS): “A Bootstrap Variance Estimator for Marginal Failure Time Models”, Department of Biostatistics, 1998 – 1999.
- Michelle Pritchard (MS): “Small Sample Properties for the Kaplan-Meier Estimator for Correlated Failure Time Data”, Department of Biostatistics, 1998 — 1999.
- Dominic Moore (MPH): “Comparison of Statistical Methods for Analyzing Survival Data with Missing Covariate”, Department of Biostatistics, 1997 – 1998.

- Hongyan Zhang (MS): “Comparison of Statistical Methods for Analyzing Stratified Case-Cohort Data with Binary Response through Simulation Studies”, Department of Biostatistics, 1997.
- Xiaojun Wang (MS): “Mortality for Construction Workers in North Carolina”, Department of Biostatistics, 1997.

Dissertation Committees:

BIOS Doctoral:

- Tianhao Song (PhD). Department of Biostatistics, 2024 – present.
- Kyle Grosser (PhD). Department of Biostatistics, 2023 – present.
- Wenyi Xie (PhD). Department of Biostatistics, 2023 – present.
- Beibo Zhao (PhD). Department of Biostatistics, 2023 – 2024.
- Huijun (Jean) Jiang (PhD). Department of Biostatistics, 2023 – 2024.
- Marissa Ashner (PhD). Department of Biostatistics, 2022 – 2023.
- Elaine Kowalewski (PhD). Department of Biostatistics, 2022 – 2023.
- Teeranan Pokaparakarn (PhD). Department of Biostatistics, 2020 – 2021.
- Bryan S. Blette (PhD). Department of Biostatistics, 2020 – 2021.
- Xiaotong Jiang (PhD). Department of Biostatistics, 2019 – 2020.
- Angel Davalos (PhD). Department of Biostatistics, 2017 – 2019.
- Sujatro Chakladar (PhD). Department of Biostatistics, 2017 – 2018.
- Jacob Wulff (DrPH). Department of Biostatistics, 2015 — 2018.
- Natalia Gouskova (PhD). Department of Biostatistics, 2013 – 2014.
- Noorie Hyun (PhD). Department of Biostatistics, 2011 – 2014.
- Baiming Zou (PhD). Department of Biostatistics, 2011 – 2013.
- Ruoqing Zhu (PhD). Department of Biostatistics, 2010 – 2013.
- Yi Zhang (DrPH). Department of Biostatistics, 2010 – 2013.
- Dustin Long (PhD). Department of Biostatistics, 2011 – 2012.

- Cicely Mitchel (DrPH). Department of Biostatistics, 2009 – 2011.
- Bingqing Zhou (Ph.D). Department of Biostatistics, 2008 – 2010.
- Yimei Li (Ph.D). Department of Biostatistics, 2008 – 2009.
- Eunhee Kim (Ph.D). Department of Biostatistics, 2006 – 2009.
- Michael Pennell (Ph.D): “Improved methods for Bayesian multiple event time analysis”, Department of Biostatistics, 2003 – 2006.
- Yueh-Yun Chi (Ph.D): “Methods for Jointly Modeling Longitudinal and Survival Outcomes”, Department of Biostatistics, 2004 – 2005.
- Qingxia Chen (Ph.D): “Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems”, Department of Biostatistics, 2004 – 2005.
- Karen L. Kesler (Ph.D): “Robust Methods for Multivariate Failure Time Models in the Presence of Nonproportional Hazards and Informative Cluster Size”, Department of Biostatistics, 1998 – 2000.
- Steve Wisseh (DrPH): “Statistical Inference from Recurrent Event Data with Complete-or-Truncated History”, Department of Biostatistics, 1998 – 2000.
- James Edward MacDougall (Ph.D): “Nonparametric Rank-based Analysis of Longitudinal Data”, Department of Biostatistics, 1999.
- Hsiao-Chuan Tien (Ph.D): “Association Patterns in Bivariate Survival Models with Interval Censoring”, Department of Biostatistics, 1997 – 1998.
- Hany Zayed (Ph.D): “Robustness of Rank Correlations”, Department of Biostatistics, 1994 – 1996.
- Hsing-Yi Chang (DrPH): “Detecting Overdispersion with Censored Data”, Department of Biostatistics, 1994 – 1996.
- Chin-Hua Wang (Ph.D): “Time Dependent Covariates for Survival Analysis”, Department of Biostatistics, 1994 – 1995.
- Ralph A. DeMasi (Ph.D): “Analogues of Proportional Hazards Models for Multivariate Failure Time Data with Generalized Competing Risks”, Department of Biostatistics, 1993 – 1994.
- Sergio R. Munoz (Ph.D): “Group Sequential Methods for Clustered Survival Data in Clinical Trials: a Proposed Analytic Method”, Department of Biostatistics, 1993 – 1994.
- Kathy Lipshutz (DrPH): “Evaluating Methods Analyzing Data with Multiple Events in Clinical Trials”, Department of Biostatistics, 1993 – 1994.

BIOS Master:

- Jose Santos Lopez (MS): “Comparison of Two Statistical Methods to Address Missing Accelerometer Data in HCHS/SOL Youth”, Department of Biostatistics, 2020.
- Alec McConnell (MPH): “An Analysis of Agreement between Self-Reported and Scanned-In Medications for Chronic Status among HCHS/SOL Study Participants”, Department of Biostatistics, 2019.
- Xiaoping Yang (MS): “Comparison of Different Methods for Generating Correlated Binary Variates”, Department of Biostatistics, 2000.
- Hsi-wen Liao (MS): “A Simulation Study of Estimators in Stratified Proportional Hazards Models”, Department of Biostatistics, 1997.
- Kathryn L. Andersen (MS): “Application of Ordinal Logistic Regression to Assess the Relationship Between Physical Abuse and Patterns of Substance Use Before and During Pregnancy”, Department of Biostatistics, 1995.
- Judith Bebchuk (MS): “The Effect of Income on Post-CABG Mortality in the United States and Manitoba”, Department of Biostatistics, 1994.

Non-BIOS:

- Gabrielle Patrice Jenkins (Ph.D), Department of Epidemiology, 2018 – 2022
- Kam Reynolds (Ph.D), Department of Epidemiology, 2017 – 2022
- Clare Meernik (Ph.D), Department of Epidemiology, 2020 – 2022
- Madison LeCroy (Ph.D), Department of Epidemiology, 2017 – 2018
- Dongyu Zhang (PhD), Department of Epidemiology, 2017 – 2018.
- Saira Khan (Ph.D), Department of Epidemiology, 2014 – 2016.
- Zhihong Wang (Ph.D), Department of Nutrition, 2013 – 2016.
- Amy Roberts (Ph.D), Department of Nutrition, 2013 – 2014.
- Eva Erber (Ph.D), Department of Nutrition, 2013 – 2014.
- Arnita Norwood (Ph.D), Department of Nutrition, 2011 – 2013.
- Carmina Valle (Ph.D), Department of Nutrition, 2009 – 2012.
- Lisa Lowenstein (Ph.D), Department of Nutrition, 2008 – 2011.
- Alison Gastafsun (Ph.D), Department of Nutrition, 2008 – 2010.

- May May Leung (Ph.D), Department of Nutrition, 2008 – 2010.
- Eva Katz (Ph.D), Department of Nutrition, 2007 – 2010.
- Katrina F. Trivers (Ph.D), Department of Epidemiology, 2004 – 2006.
- Yan Zhong (Ph.D), Department of Epidemiology, 2004 – 2006.
- Sherry Farr (Ph.D), Department of Epidemiology, 2003 – 2004.
- Tao Huang (Ph.D), Department of Statistics, 2002 – 2004.
- Denise Houston (Ph.D), Department of Nutrition, 2001 – 2004.
- Susan Hogan (Ph.D), Department of Epidemiology, 1999 – 2001.
- Stacy Geisler (Ph.D), Department of Epidemiology, 1999 – 2001.
- Shuanglin You (Ph.D), Department of Health Policy and Administration, 1998 – 2002.
- Youfa Wang (Ph.D), Department of Nutrition, 1998 – 2001.
- Kelly R. Evenson (Ph.D), Department of Epidemiology, 1997 – 1999.
- Rongling Li (MS), Department of Epidemiology, 1994.

PEER REVIEWED PUBLICATIONS:

(* student first author from dissertation work that I advised. ** co-first authors)

1. Prentice, R.L. and **Cai, J.**(1992): “Covariance and survivor function estimation using censored multivariate failure time data”, *Biometrika*, 79,3, pp. 495-512.
2. Pepe, M. and **Cai, J.**(1993): “Some graphical displays and marginal regression analysis for recurrent failure times and time dependent covariates”, *Journal of the American Statistical Association*, 88,423,pp. 811-820.
3. **Cai, J.** and Prentice, R.L.(1995): “Estimating equations for hazard ratio parameters based on correlated failure time data”, *Biometrika*, 82,1, pp. 151-164.
4. Robinson, J.G., Folsom, A.R., Nabulsi, A.A., Watson, R., Brancati, F.L. and **Cai, J.** (1996): “Can postmenopausal hormone replacement improve plasma lipids in women with diabetes?”, *Diabetes Care*, 19, 5, pp. 480-485.
5. Liao, D., **Cai, J.**, Brancati, F.L., Crow R., Barnes, R.W., Tyroler, H.A. and Heiss, G. (1995): “Association of vagal tone with serum insulin, glucose and diabetes mellitus - the ARIC study”, *Diabetes Research and Clinical Practice*, 30, pp. 211-221.

6. Li, R., **Cai, J.**, Tegeler, C., Sorlie, P., Metcalf, P.A., Heiss, G. (1996): "Reproducibility of extracranial carotid atherosclerotic lesions assessed by B-mode ultrasound: the atherosclerosis risk in communities study", *Ultrasound in Medicine and Biology*, 22, 7, pp. 791-799.
7. Liao, D., **Cai, J.**, Barnes, R.W., Tyroler, H.A., Rautaharju, P., Holme, I., Heiss, G. (1996): "Association of cardiac autonomic function and the development of hypertension - the ARIC study", *American Journal of Hypertension*, 9, pp. 1147-1156.
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9. **Cai, J.**, Zhou, H., and Davis, C.E. (1997): "Estimating the mean hazard ratio parameter for multivariate survival data with random clusters", *Statistics in Medicine*, 16, pp. 2009-2020.
10. Qaqish, B., Zhou, H., and **Cai, J.** (1997): "On the case-control sampling of clustered data", *Biometrika*, 84, pp. 983-986.
11. Liao, D., **Cai, J.**, Rosamond, W. D., Barnes, R. W., Hutchinson, R. G., Whitsel, E. A., Rautaharju, P., Heiss, G. (1997): "Cardiac autonomic function and incident coronary heart disease: a population based case-cohort study - the ARIC study", *American Journal of Epidemiology*, 145, 8, pp. 696-706.
12. Liao, D., Cooper, L., **Cai, J.**, Toole, J.F., Bryan, N.R., Burke, G., Shahar, E., Nieto, J., Mosley, T., Heiss, G. (1997): "The Prevalence and severity of white matter lesions, their relationship with age, ethnicity, gender, and cardiovascular disease risk factors: the ARIC study", *Neuroepidemiology*, 16, pp. 149-162.
13. **Cai, J.** and Prentice, R.L. (1997): "Regression estimation using multivariate failure time data and a common baseline hazard function model", *Lifetime Data Analysis*, 3, pp. 197-213.
14. Stevens, J., Tyroler, H.A., **Cai, J.**, Paton, C.C., Folsom, A.R., Tell, G.S., Schreiner, P.J., and Chambless, L.E. (1998): "Body weight change and carotid artery wall thickness", *American Journal of Epidemiology*, 147, pp. 563-573.
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16. Howard, G., Wagenknecht, L.E., **Cai, J.**, Cooper, L., Kraut, M.A. and Toole, J.F. (1998): "Cigarette smoking and other risk factors for silent cerebral infarctions in the general population", *Stroke*, 29, pp. 913-917.

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36. Shen, Y. and **Cai, J.** (2001): “Maximum of the weighted Kaplan-Meier tests with application to cancer prevention and screening trials”, *Biometrics*, 57, pp. 837-843.
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52. Chen, J., **Cai, J.**, and Zhou, H. (2004): "Two-step estimation for a generalized linear mixed model with auxiliary covariates", *Statistica Sinica*, 14, pp. 361-376.
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63. Houston, D.K., Stevens, J., **Cai, J.**, and Haines, P.S. (2005). Dairy, fruit, and vegetable intakes and functional limitations and disability in a biracial cohort: the Atherosclerosis Risk in Communities Study, *American Journal of Clinical Nutrition*, 81, 515-22.
64. * Yin, G. and **Cai, J.** (2005). Quantile regression models with multivariate failure time data, *Biometrics*, 61, 151-161.
65. Caplan, D., **Cai, J.**, Yin, G., and White, B.A. (2005). Root canal filled versus non-root canal filled teeth: a retrospective comparison of survival times, *Journal of Public Health Dentistry*, 65, 90-6.
66. Zeng, D. and **Cai, J.** (2005). Simultaneous modeling of survival and longitudinal data with an application to repeated quality of life measures, *Lifetime Data Analysis*, 11, 151-74.
67. Truesdale, K.P., Stevens, J., and **Cai, J.** (2005). The effect of weight history on glucose and lipids: the Atherosclerosis Risk in Communities study, *American Journal of Epidemiology*, 161, 1133-43.

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76. Houston, D.K., Stevens, J., **Cai, J.**, and Morey, M.C. (2005). Role of weight history and functional limitations and disability in late adulthood: the ARIC study, *Obesity Research*, 13:1793-1802.
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