

Curriculum Vitae
MANISHA DESAI
November 2023

PERSONAL INFORMATION

Place of birth: Walnut Creek, California
Citizenship: USA

Address: Quantitative Sciences Unit
Department of Medicine
Stanford University
3180 Porter Drive, Room 116
Palo Alto, CA 94304

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ACADEMIC TRAINING

Boston University	1993	B.A.	Mathematics
Boston University	1993	M.A.	Mathematics
University of Washington	1997	M.S.	Biostatistics
University of Washington	2000	Ph.D.	Biostatistics

DOCTORAL DISSERTATION

Title: Mixture Models for Genetic Changes in Cancer Cells
Sponsor: Mary J. Emond, Assistant Professor of Biostatistics, University of Washington

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

The American Statistical Association
International Biometric Society
The Society for Clinical Trials
New York Academy of Sciences
Association of Clinical & Translational Science (ACTS)
American Medical Informatics Association
Society for Industrial and Applied Mathematics
Society for Epidemiologic Research

ACADEMIC APPOINTMENTS

2000-2009	Assistant Professor of Clinical Biostatistics, Columbia University
Jan 2009-Jul 2009	Associate Professor of Clinical Biostatistics, Columbia University
Jul 2009-Feb 2012	Clinical Associate Professor of Medicine, Stanford University
Mar 2011-Feb 2012	Clinical Associate Professor of Health Research & Policy, Stanford University
Feb 2012-Jan 2017	Associate Professor of Medicine, Stanford University
Sep 2012-Jan 2017	Associate Professor of Health Research & Policy, Stanford University
Jan 2017- Present	Professor of Medicine, Stanford University
Jan 2017- Present	Professor of Biomedical Data Science, Stanford University
October 2021-Present	Kim and Ping Li Professor of Medicine, Biomedical Data Science, and (by courtesy), of Epidemiology and Population Health

ADMINISTRATIVE LEADERSHIP ROLES AT STANFORD

2009-Present	Founding Director, Quantitative Sciences Unit
2016-2017	Co-Director of Biostatistics Shared Resource, Stanford Cancer Institute
2017-Present	Director of Biostatistics Shared Resource, Stanford Cancer Institute
Jan 2018-Present	Section Chief of Biostatistics, Division of Biomedical Informatics
Jan 2020-Present	Kim and Ping Li Director of Computational Biology
Jul 2020-Present	Director of Biostatistics Epidemiology Research Design (BERD) for the Clinical and Translational Science Award (CTSA)
Sep 2020-Present	Associate Dean of Research in the Senior Associate Dean of Research Office in the School of Medicine

UNIVERSITY LEADERSHIP AT STANFORD UNIVERSITY (ORDERED BY CURRENT TO PAST ACTIVITIES)

2021- Present	Co-Chair, Secondary Data Use Review Committee
2021- Present	Member, Stanford Program on Research Rigor & Responsibility Advisory Board
2021- Present	Member, Department of Medicine Team Science Task Force
2020- Present	Member, Executive Committee, Stanford Data Science Center for Open and Reproducible Science (SDS-CORES)
2020- Present	Co-Chair, SoM Research Development Committee
2020	Co-Chair, University Student Data Oversight Committee
2020- Present	Member, Women in Data Science (WiDS) Faculty Advisory Council
2019- Present	Member, SoM Data Management & Access Committee
2018	Member, Leadership Committee for Collaboration with Uppsala University
2017- Present	Member, SoM Research IT Faculty Advisory Committee
2017- Present	Member, SoM Appointments and Promotions Committee
2014- Present	Member, Executive Committee, Biomedical Informatics Graduate Program
2014- Present	Member, Executive Committee, Biomedical Informatics Research Division
2017-2019	Member, SoM Committee on Academic Roles and Responsibilities
2016-2017	Member, HUB Committee

LEADERSHIP IN FACULTY AFFAIRS AT STANFORD UNIVERSITY

2014-2015	Chair, Search Committee for Neurosurgery and Medicine (Biostatistics Section) Faculty
2014-2016	Chair, Search Committee for Medicine (Biostatistics Section) Faculty
2015	Member, Search Committee for Associate Dean of Clinical Informatics
2015	Chair, Search Committee for Surgery Faculty
2016-2018	Chair, Search Committee for Neurology and Medicine (Biostatistics Section) Faculty
2017- Present	Member, SoM Appointments and Promotions Committee
2017-2019	Member, Search Committee for Pediatrics and Medicine (Biostatistics Section) Faculty

2018	Member, Search Committee for Medicine (Pulmonary Division) Faculty
2019	Member, Search Committee for Pathology and Medicine (Biostatistics Section)
2020-present	Chair, Search Committee for Emergency Medicine & Medicine (Biostatistics Section) Faculty
2020-Present	Member, Faculty Development Committee, Department of Biomedical Data Science, Stanford University
2021	Founding Chair, Advocacy Committee, BMIR, Stanford University
2022- Present	Chair Elect, Biostatistics, Epidemiology & Research Design (BERD) SIG, Associations for Clinical and Translational Science

UNIVERSITY LEADERSHIP AT COLUMBIA UNIVERSITY

2002–2004	Founder, Columbia University Microarray Working Group
2003-2009	Member, Executive Committee, Internal Advisory Board for Training Program in Cancer-Related Population Sciences
2003-2009	Co-Director, Columbia University Training Program in Cancer Biostatistics and Epidemiology Program
2007-2009	Member, Steering Committee, Mailman School of Public Health
2008–2009	Chair, Department of Biostatistics Masters Admissions Committee

NATIONAL AND INTERNATIONAL LEADERSHIP (ORDERED FROM MOST RECENT TO PAST ACTIVITIES)

2023	Member, NCI Review Committee for NYU Langone’s Comprehensive Cancer Center
2023	Member, North American Biostatistics Chairs
2023-2025	Chair-Elect, Biostatistics, Epidemiology and Research Design Special Interest Group (BERD SIG)
2022- Present	Member, External Advisory Committee (EAC) for University of Cincinnati’s Clinical and Translational Science Award
2022	Member, Informatics Special Interest Group (BERD Informatics SIG)
2021-2022	Member, Biostatistics, Epidemiology and Research Design Special Interest Group (BERD SIG)
2022	Member, Informatics Enterprise Committee (iEC)
2021	Member, American Statistical Association (ASA) StatFest Planning Committee
2021	Chair, ASA Statistical Consulting Section Nominations Committee
2021	Chair, ASA Statistical Consulting Section Membership Outreach and Diversity Committee
2021-Present	Founding member and Chair, California BERD (CA BERD) Consortium
2021	Member, JEDI SIG Consortium
2020	Chair, ASA Statistical Consulting Section
2019	Chair-Elect, ASA Statistical Consulting Section
2019-2020	Chair, Mentorship Award Committee, ASA Statistical Consulting Section
2017	Member, Education Advisory Committee, ENAR, International Biometric Society
2017-2019	Member, Regional Advisory Board, ENAR, International Biometric Society
2017-2020	Member, Executive Committee at Large, Statistical Consulting Section, ASA

AWARDS

2020	ASA Fellow
2017	ASA Statistical Consulting Section Outstanding Mentorship Award
2002–2003	Calderone Prize for Junior Faculty Achievement, Mailman School of Public Health, Columbia University
May 1993	Phi Beta Kappa National Honor Society, Boston University
May 1993	Distinction in Statistics, Boston University
May 1993	Magna Cum Laude, Boston University

May 1993
May 1993

Golden Key National Honor Society, Boston University
Pi Mu Epsilon National Mathematics Honor Society, Boston University

GRANT SUPPORT

(a) Active Support

May 2021-May 2025	Funder: NIH R01LM013355 Novel machine learning and missing data methods for improving estimates of physical activity, sedentary behavior and sleep using accelerometer data Role: Principal Investigator (PI: Desai)
Sep 2019-Aug 2024	Funder: NIH 1U24HL141727 01 Title: Data Coordinating Center for Arrest Respiratory Failure due to Pneumonia (ARREST PNEUMONIA) Role: Principal Investigator (PI: Desai)
Jul 2019-Jun 2024	Funder: NIH 1UL1TR003142 Title: SPECTRUM Stanford Center for clinical and Translational Research and Education Role: Director of Biostatistics Epidemiology Research Design (PI: O'Hara)
Oct 2020-Oct 2025	Funder: NIH-NHLBI-WH-11-10 Title: The Women's Health Initiative Extension Study Role: Director of Western Analytic Center (PI: Marcia Stefanick)
Sep 2018-Mar 2023	Funder: UNOCAR/NIH 1P01CA225597 Title: ASPIRE: Advancing Science & Practice in the Retail Environment Role: Principal Investigator of Data Core (MPI: Henriksen/Luke/Ribisl)
Jun 2015-May 2022	Funder: NIH 5P30CA124435-11 Stanford University Cancer Center Role: Director of the Biostatistics Shared Resource (PI: Steve Artandi)
Aug 2021-Apr 2023	Funder: Celtaxsys, Inc. Title: Acebilustat sub-protocol to: COVID-19 Outpatient Pragmatic Platform Study (COPPS): A pragmatic multi-arm, adaptive, phase 2, blinded, randomized placebo-controlled platform trial to assess the efficacy of different investigational therapeutics in reducing time to disease resolution or viral load cessation, as compared to standard supportive care in outpatients with COVID-19 Role: Co-Investigator (PI: Rogers)
Aug 2021-Jul 2026	Funder: NIH P01HL152953 Title: Air pollution disrupts Inflammasome Regulation in HEart And Lung Total Health (AIRHEALTH) Role: Director of Data Coordinating Center (PI: Nadeau)
Aug 2020-May 2027	Funder: NIH R01 AI147462 Title: SEAL (Stopping Atopic dermatitis and Allergy) Study: Prevent allergy by enhancing the skin barrier Role: Director of Data Coordinating Center (PI: Nadeau)
Feb 2019-Mar 2024	Funder: NIH 1R61 HL139929 01 Title: PCSK9 Inhibition after heart transplantation

	Role: Co-Investigator (PI: Fearon)
Apr 2019-Mar 2024	Funder: NIH 6U18DP006423-01 Title: Packaging and Spreading the Stanford Pediatric Weight Control Program - A Family-Based, Group, Behavioral Weight Control Program for Children with Obesity and their Families Role: Co-Investigator (PI: Robinson)
Aug 2017- Nov 2022	Funder: CSL Behring LLC / Duke Clinical Research Institute Title: AEGIS II: A phase 3 multicenter, double-blind, randomized, placebo-controlled, parallel-group study to investigate the efficacy and safety of CSL 112 in subjects with acute myocardial infraction. Role: Principal Investigator (PI: Desai)
Sep 2017-June 2022	Funder: NIH 5P30DK11607402 Title: Stanford Diabetes Research Center Role: Co-Principal Investigator of Clinical Translational Core (PI: Kim)
Jul 2018-Apr 2022	Funder: NIH 5R01HL129751 Title: Targeting cardiovascular events to improve patient outcomes after sepsis Role: Co-Investigator (PI: Walkey)
Sep 2018-May 2022	Funder: NIH 1R01LM01296601 Title: Deep learning for pulmonary embolism imaging decision support: a multiinstitutional collaboration Role: Co-Investigator (PI: Lungren)
Sep 2019-Aug 2023	Funder: Department of Defense Title: Biomarker driven targeted therapy for late-recurring ER-positive breast cancer Role: Co-Investigator (PI: Curtis)
Feb 2020-Jan 2025	Funder: National Institute of Health Title: Teamwork, Targets, Technology, and Tight Control in Newly Diagnosed Pediatric T1D: 4T Study Role: Co-Investigator (PI: Maahs)
Apr 2019-Mar 2023	Funder: NIH R01HL146690 Title: Genetic and Stem Cell Model of Cardiac Metabolic Disease Role: Co-Investigator (PI: Wu)
Jun 2019-May 2023	Funder: NIH R01LM013083 Title: Creating an artificial intelligence therapy-to-data feedback loop for child developmental healthcare Role: Co-Investigator (PI: Wall)
Sep 2019-Jun 2024	Funder: NIH R01DK123286 Title: Wise Social Psychological Interventions to Improve Outcomes of Behavioral Weight Control in Children with Obesity Role: Co-Investigator (PI: Robinson)
Aug 2020-Apr 2025	Funder: NIH R01 CA245533 Title: New Materials to Deliver mRNA: Applications in Cancer Immunotherapy Role: Co-Investigator (PI: Waymouth)

May 2020-Apr 2023	Funder: Leona M & Harry B Helmsley Charitable Trust Title: Exercise education at new onset of T1D Role: Co-Investigator (PI: Zaharieva)
Sep 2020-Oct 2022	Funder: NIH U54CA260517 Title: Mechanisms and Duration of Immunity to SARS-CoV-2 Role: Co-Investigator (PI: Boyd)
Mar 2020- Feb 2025	Founder: NIH R33HL146775 Title: RE-NERGIZE FONTAN – Randomized exercise intervention designed to maximize fitness in pediatric FONTAN patients Role: Co-Investigator (PI: Tierney)

(b) Past Support

2016-2022	Funder: NIH 5U54MD010724 Title: Monitoring COVID-19 and building capacity with Northern Plains Tribes for the future of pandemic Role: Co-Investigator (PI: Maldonado)
2017- 2022	Funder: Duke Clinical Research Institute Title: Data coordination for DSMB-activities related to Randomized, Double-blind, Placebo-controlled Study to Investigate the Efficacy and Safety of Injectafer® (Ferric Carboxymaltose) as Therapy for Patients with Heart Failure and Iron Deficiency Role: Principal Investigator (PI: Desai)
2020-2021	Funder: Sanifit Therapeutics S.A. Title: SANIFIT - Study SNFCT2017-06 Role: Principal Investigator (PI: Desai)
2018-2022	Funder: Apple, Inc. Project Tara: Assessment of wristwatch-based photoplethysmography to identify cardiac arrhythmias (Apple Heart Study 1.0) Role: Co-Investigator and Principal Investigator of Data Coordinating Center (PI: Turakhia)
2018-2022	Funder: Apple, Inc. Apple Heart Study 1.2 Role: Co-Investigator and Principal Investigator of Data Coordinating Center (PI: Perez)
2017-2022	Funder: NIH 1R01AI127250-01A1 Title: Big Data Analysis of HIV Risk and Epidemiology in Sub-Saharan Role: Co-Investigator (PI: Bendavid)
2019-2021	Funder: SANOFI iDEA Award Transporting trial findings to target populations in the presence of missing data Role: Principal Investigator (PI: Desai)
2020-2021	Funder: SANOFI US Services Inc. Guidelines for applying methods to translate findings to real world target populations Role: Principal Investigator (PI: Desai)

2020- 2021	Funder: Stanford RISE Title: Data-Driven Strategies for Informing Reopening of Counties in a COVID Era. Role: Principal Investigator (PI: Desai)
2015-2021	Funder: Ferring Pharmaceuticals Title: A Multi-Center, Randomized, Open-Label, Assessor-Blinded, Controlled Trial Comparing the Occurrence of Major Adverse Cardiovascular Events (MACEs) in Patients with Prostate Cancer and Cardiovascular Disease Receiving Degarelix (GnRH antagonist) or Leuprolide (LHRH agonist) Role: Lead of DSMB (PI: Mahaffey)
2013-2020	Funder: Chiesi Title: Secondary Analyses of the CHAMPIONS Trial Database Role: Principal Investigator (PI: Desai)
2019-2020	Funder: Bayer Corporation Title: The Vitality Study Role: Principal Investigator (PI: Desai)
2013-2020	Funder: AstraZeneca Title: DECLARE TRIAL Role: Principal Investigator (PI: Desai)
2018-2019	Funder: SANOFI iDEA Award Novel methods for generalizing randomized clinical trial findings by calibrating missingness through propensity score-based methods Role: Principal Investigator (PI: Desai)
2017-2019	Funder: Merck Sharp & Dohme Corp. Title: Data coordination for DSMB-activities related to VICTORIA. A randomized parallel-group, placebo-controlled, double-blind, event-driven, multi-center pivotal phase III clinical outcome trial of efficacy and safety of the oral sGC stimulator vericiguat (BAY 1021189) in patients with heart failure and reduced ejection fraction (HFrEF) - VeriCiguaT gLObal study in patients with heart failure and Reduced ejection frAction (VICTORIA) Role: Principal Investigator (PI: Desai)
2018-2019	Funder: Child Health Research Institute Novel Statistical Methods for Analysis of Accelerometer Data: Improving Estimates of Children's Physical Activity, Sedentary Behavior and Sleep in Free-Living Settings Role: Principal Investigator (PI: Desai)
2013-2019	Funder: Patient-Centered Outcomes Research Institute Title: The handling of missing data induced by the inclusion of time-varying covariates in comparative effectiveness research involving HIV patients Role: Principal Investigator (PI: Desai)
2016-2018	Funder: Janssen Research & Development Title: smartADHERE - Smartphones to Improve Rivaroxaban ADHEREnce in Atrial Fibrillation Role: Co-Investigator (PI: Turakhia)
2012-2018	Funder: NIH NIDDK R01DK09183101A1

	<p>Title: Do Genotype Patterns Predict Weight Loss Success for Low Carb vs. Low Fat Diets?</p> <p>Role: Biostatistician leading the design and analysis of DIETFITS trial (PI: Christopher Gardner)</p>
2010-2018	<p>Funder: NIDDK</p> <p>Title: Clinic, Family & Community Collaboration to Treat Overweight and Obese Children.</p> <p>Role: Co-Investigator to develop methods for group randomized clinical trials (PI: Thomas Robinson)</p>
2013-2018	<p>Funder: NIH Director's New Innovator Award</p> <p>Title: Harnessing natural killer cell memory to fight viruses</p> <p>Role: Biostatistician (PI: Catherine Blish)</p>
2015-2017	<p>Funder: Stanford Child Health Research Institute</p> <p>Title: Measuring Children's Physical Activity and Sleep in the Real World: Processing and Analysis of High-Dimensional Accelerometry Data Using Statistical Learning Techniques</p> <p>Role: Principal Investigator (PI: Desai)</p>
2014-2017	<p>Funder: Phylisius Pharma, Inc.</p> <p>Title: Data coordination of DSMB for Levo-CTS trial</p> <p>Role: Principal Investigator (PI: Desai)</p>
2015-2017	<p>Funder: Janssen Research & Development, LLC</p> <p>Title: Gemini</p> <p>Role: Lead of DSMB Team (PI: Robert Harrington)</p>
2012-2017	<p>Funder: NIH/NHLBI grant K24HL086703</p> <p>Title: Mentoring for the Development of Translational Scientists</p> <p>Role: Mentor (PI: Randall Stafford)</p>
2012-2016	<p>Funder: 2012 Beckman Young Investigators Program</p> <p>Title: Novel Strategies to Develop Comprehensive Understanding of Antiviral NK Cell Function</p> <p>Role: Biostatistician (PI: Catherine Blish)</p>
2014-2015	<p>Funder: National Institutes of Health</p> <p>Title: AMP RA/SLE Leadership Center</p> <p>Role: Lead of Statistical Research Group (PI: PJ Utz)</p>
2013-2015	<p>Funder: VHA, HSR&D Service</p> <p>Title: Cost-effective uses of new Hepatitis C treatments and their VA budgetary impact</p> <p>Role: Co-Investigator (PI: Doug Owens)</p>
2012-2015	<p>Funder: NIH/NIDDK</p> <p>Title: Mentoring patients oriented clinical investigators in Nephrology</p> <p>Role: Co-mentor (PI: Glen Chertow)</p>
2013-2015	<p>Funder: Duke University (Prime Sponsor Regado Biosciences)</p> <p>Title: Statistical coordination for DSMB advising on REGULATE-PCI Trial</p> <p>Role: Principal Investigator (PI: Desai)</p>

2014-2014	Funder: VA IPA Title: Cancer Center Evaluation for Manisha Desai Role: Oversee design and analysis of studies in Ci2i (PI: Stephen Asch)
2012-2014	Funder: Health Services Research & Development (HSR&D) HSR&D Merit Review Award (Parent I01) Title: Management of HIV as a Chronic Disease Role: Co-Investigator to develop methods for causal inference (PI: Doug Owens)
2013-2014	Funder: VA IPA Title: IPA for Manisha Desai Role: Lead statistical component for randomized clinical trial of coordinated care for end-stage cancer (PI: James Kahn)
2012-2013	Funder: Department of Defense Congressionally Directed Medical Research Programs, Investigator-Initiated Research Award Title: Subgrouping Chronic Fatigue Syndrome Patients by Genetic and Immune Profiling Role: Co-Investigator to develop methods for analysis of high throughput data (PI: Jose Montoya)
2013-2013	Funder: Beckman young Investigators Program Title: Novel Strategies to develop comprehensive understanding of antiviral NK cell function Role: Biostatistician (PI: Catherine Blish)
2013-2013	Funder: Mayo Clinic Title: Immune signatures of pregnancy Role: Biostatistician (PI: Catherine Blish)
2013-2013	Funder: Doris Duke Charitable Foundation DDCF Clinical Scientist Development Award Title: Systems immunology to understand antiviral deficits during pregnancy Role: Biostatistician (PI: Catherine Blish)
2009-2013	Funder: Brennan Family Gift Fund Title: Gene expression and immune system dynamics of infection in acute and chronic diseases Role: Biostatistician, Develop methods for analysis of high throughput data (PI: Jose Montoya)
2010-2013	Funder: UCAKK SPO#4949 California Breast Cancer Project Title: Measuring real world breast cancer outcomes award Role: Co-Investigator to develop new methods for the analysis of studies derived from multi-source data research network (PI: Allison Kurian)
2010-2011	Funder: NIH K24 grant DK085446 Title: Mentoring Patient Oriented Clinical Investigators in Nephrology. Role: Co-Mentor (PI: Glenn Chertow)
2011-2011	Funder: NIH/NIA grant R01AG026291 Title: Disease, Disability and Death in an Aging Workforce Role: Co-Investigator (PI: Mark Cullen)

2009-2011	<p>Funder: NIH grant RC1A1086927 Title: Comparative effectiveness of ART for HIV in patients with comorbidities. Role: Co-Investigator to develop methods for analysis of time-varying exposures (PI: Doug Owens)</p>
2004-2009	<p>Funder: NIH grant U54 CA101598-01 Title: Cancer research in older minority populations with a Caribbean American emphasis. Role: Director of Biostatistics Core (PI: Alfred Neugut)</p>
2003-2009	<p>Funder: NIH grant R25 CA94061-01 Title: Training program in cancer-related population sciences. Role: Co-Director (PI: Alfred Neugut)</p>
2006-2009	<p>Funder: Breast Cancer Research Foundation grant: BCRF CU2001101 Title: DNA repair & methylation & breast cancer risk. Role: Biostatistician to develop methods for analysis of high throughput and missing data (PI: Regina Santella)</p>
2007-2009	<p>Funder: NCI grant K23 CA101669 Title: Targeted biochemoprevention in Barrett's Esophagus. Role: Biostatistician to develop methods for analysis of high throughput data (PI: Andrew Joe)</p>
2006-2009	<p>Funder: NIH grant U54 UL1 RR023568-01 Title: Clinical and Translational Science Award. Role: Co-Investigator to develop methods for interdisciplinary studies and provide research infrastructure (PI: Henry Ginsberg)</p>
2002-2009	<p>Funder: NIH grant P30 CA13696-32 Title: Columbia Cancer Center Support Grant. Role: Oversee design and analysis of all cancer-related studies; Develop methods for the analysis of cancer-related studies (PI: Ricardo Dalla-Favera)</p>
2000–2007	<p>Funder: T.J Martell Foundation for AIDS and Cancer Research Role: Biostatistician to develop methods for cancer-related studies (PI: M. Benson)</p>
2004–2006	<p>Funder: ACS grant RSGT 01-024-04 Title: Effectiveness of cancer care in the elderly. Role: Biostatistician to develop methods for analysis of cancer-related studies (PI: Alfred Neugut)</p>
2002-2004	<p>Funder: Cystic Fibrosis Foundation grant CFFN Saiman 03A0 Title: Infection control and microbiology practices in cystic fibrosis. Role: Biostatistician to design study and utilize survey methods for analysis (PI: L. Saiman)</p>
2003–2004	<p>Funder: NIDCR grant DE14898-01 Title: Diabetes mellitus periodontal disease in children and adolescents. Role: Biostatistician to develop methods for analyzing clustered data (PI: I.B. Lamster)</p>
2003–2004	<p>Funder: CDC grant CU220685-0 Title: Dissemination of cervical cancer screening to primary care physicians.</p>

Role: Biostatistician (PI: S. Sheinfeld-Gorin)

2002–2003	Funder: NIEHS grant 009089-05 Title: Environmental health in northern Manhattan. Role: Biostatistician (PI: R. Miller)
2002-2003	Funder: Columbia University Title: Calderone Prize for Junior Faculty Achievement Role: Principal Investigator (PI: Desai)
2000–2003	Funder: ESSEL Foundation grant ESSELD CU51432001 Title: Mental health clinical research center in schizophrenia studies. Role: Biostatistician to develop methods for analyzing studies of schizophrenia (PI: J.M. Gorman)
2000–2002	Funder: NIH grant R01 MH59114 Title: Jerusalem Perinatal Cohort Schizophrenia Study. Role: Biostatistician to develop methods for analyzing family-based study (PI: D. Malaspina)

UNIVERSITY SERVICE

2021-Present	Member, Evaluation Committee for Dr. Jonathan Chen, SU
2020- Present	Member, Senior Associate Dean of Research Continuity Committee, SU
2020- Present	Member, School of Medicine COVID Clinical Research Working Group Committee, SU
2020- Present	Member, Restarting Computing Research Working Group, SU
2020- Present	Member, School of Medicine post-COVID clinical research committee, SU
2020- Present	Member, Clinical Human Subjects Research Committee, SU
2020- Present	Member, non-Clinical Human Subjects Research Committee, SU
2019- Present	Member, Stanford Research Park Steering Committee Meeting
2019	Member, Evaluation Committee for Dr. Nigam Shah, SU
2018	Member, Evaluation Committee for Dr. Kristin Sainani, SU
2017	Member, Evaluation Committee for Olivier Michel Simonne Gevaert, SU
2017	Member, Evaluation Committee for Purvesh Khatri, SU
2017-present	Member, Scientific Review Committee, Stanford Cancer Institute
2016	Member, Search Committee for MCL BMIR Faculty, SU
2015-2017	Member, Alignment Committee, SU
2011	Member, Associate Professors Advisory Committee, SU
2009-2011	Member, Steering Committee on Population Sciences Institute, SU
2007-2008	Member, Department of Biostatistics Masters Admissions Committee, CU
2007-2009	Member, Department of Biostatistics IT Support Search Committee, CU
2007-2009	Member, Department of Biostatistics Ph.D. Admissions Committee, CU
2003-2004	Organizer, Department of Biostatistics Colloquium Series, CU
2003-2009	Member, Protocol Review Committee for the Herbert Irving Comprehensive Cancer Center, CU
2002–2003	Member, Department of Biostatistics Computing Committee, CU
2001–2002	Member, Department of Biostatistics Ph.D. Admissions Committee, CU

ADVISORY BOARDS AND PROFESSIONAL MEMBERSHIPS

2023	Member, Supportive Cancer Care Advisory Board Meeting
2023	Member, NCI Review Committee for NYU Langone's Comprehensive Cancer Center
2022-Present	Member, External Advisory Committee for University of Cincinnati's Clinical and Translational Science Award

2019-2021	Member, Editorial Board of Journal of Clinical Oncology
2017-Present	Member, Steering Committee, Apple Heart Study
2017-Present	Member, External Advisory Board, Mobilize Center, Stanford University
2016-Present	Member, Editorial Board for Data Science: Methods, Infrastructure, and Applications
2016	Member, External Advisory Board, Graduate School of Biomedical Sciences at the Icahn School of Medicine at Mount Sinai
2015	Member, PCORI Methods Program Business Meeting

DATA & SAFETY MONITORING BOARDS

2023	Member, Data & Safety Monitoring Board (DSMB) for Myeloma related Clinical Trials, Stanford University
2018-Present	Chair, Data & Safety Monitoring Board (DSMB) for the ENGAGE trial for the University of Illinois
2018- Present	Member, Data & Safety Monitoring Committee (DSMC) for Stanford Cancer Institute
2017	Member, Data & Safety Monitoring Board (DSMB) for Predicting Analgesic Response to Acupuncture – A Practical Approach, Stanford University
2016	Member, Data & Safety Monitoring Board (DSMB) for An Open-Label, Dose-Escalation Phase Ib Study Evaluating the Safety and Preliminary Efficacy of Oral SA100 in the Treatment of Patients With Mild-to-Moderate Ulcerative Colitis, Stanford University
2016	Member, Data & Safety Monitoring Board (DSMB) for Study to Assess the Efficacy and Safety of AF-219 in Subjects with Treatment Refractory Chronic Cough, Afferent Pharmaceuticals, Inc.
2015-	Member, Data & Safety Monitoring Board (DSMB) for the Vida Sana trial, Palo Alto Medical Foundation's Research Institute
2015	Member, Data & Safety Monitoring Board (DSMB) for the Predicting Analgesic Response to Electroacupuncture in Chronic Low Back Pain Study
2015	Member, Data & Safety Monitoring Board (DSMB) for the ELITE Latinos trial, Palo Alto Medical Foundation's Research Institute
2014	Member, Data & Safety Monitoring Board (DSMB) for the Advanced Directive study, University of Pennsylvania
2014-2019	Chair, Data & Safety Monitoring Board (DSMB) for the RAINBOW- ENGAGE trial, Palo Alto Medical Foundation's Research Institute
2013	Member, Data & Safety Monitoring Board (DSMB) for the DASH trial, Palo Alto Medical Foundation's Research Institute
2010–2015	Member, Data & Safety Monitoring Board (DSMB) for the “BE WELL” trial, Palo Alto Medical Foundation's Research Institute

RESEARCH SERVICE FOR THE NATIONAL INSTITUTES OF HEALTH (NIH) & OTHER FUNDING AGENCIES

2023	Reviewer for NCI of New York University (NYU) Perlmutter Cancer Center
2021	Ad-hoc Reviewer for NIH Study Section on Neurological, Aging, and Musculoskeletal Epidemiology
2021	Ad-hoc Reviewer for NIH CSR Biostatistical Methods and Research Design Study Section and <i>invited to be a Full Member</i>
2016- Present	Reviewer for NIH Study Section on Health Services Organization and Delivery
2015- Present	Reviewer for PCORI Study Section for Pragmatic Trials

EDITORIAL ACTIVITIES

I have served as a referee for the following journals:

Journal of Clinical and Translational Science
Journal of Computational and Graphical Statistics
Journal of Clinical Investigation
Clinical Cancer Research
Statistics in Medicine
American Journal of Epidemiology
American Journal of Public Health
Journal of the American Medical Association
Journal of Biomedical Health Informatics
International Journal of Epidemiology
Journal of Data Methods Infrastructure and Applications
JAMA Cardiology
Biostatistics

I am member of editorial board, or editor for the following journals:

Member of Journal of Clinical Oncology Editorial Board
Editor for Data Science: Methods, Infrastructure and Applications

TEACHING EXPERIENCE

Biostatistics P6104, Columbia University
Introduction to Biostatistical Methods
Spring 2001, 2002, 2003
Enrollment = 11–19

Biostatistics P8110, Columbia University
Applied Regression II
Spring 2004, 2005 (co-taught with Dr. Melissa Begg), 2007, 2008
Enrollment = 19–36

Biostatistics P8114*, Columbia University
Statistical Issues in Microarray Data
*(*developed new course)*
Fall 2005, 2006
Enrollment = 14–23

Topics in Trial Design, IntroSem, Stanford University
February 2017-2018
Guest Lecturer
Enrollment = 20-24

Intensive Course in Clinical Research Methods, Stanford University
Spring 2010-2012
Fall 2009-2019, 2021
Biostatistics mentor

Fall 2022
Lecturer

Led Grant Writing Workshop for Stanford Child Health Research Institute, Stanford University
December 2017

Introduction to Research Methods, Stanford University

Developed short-course and co-delivered with QSU members to various groups including Pediatric Heart Center and Hospital Medicine

Fall 2016-2019

Enrollment = 5-15

How to partner with data scientists. Stanford KL2 Seminar Series, Stanford University

Fall 2019-2020

Guest Lecturer

Enrollment = 15

Data Science Solutions to COVID-19. Stanford Education as Self-Fashioning Series: Unintended Consequences, Stanford University

October 2020

Guest Lecturer

Enrollment = 30

Introduction to Study Design and Commonly Applied Statistics

Stanford Hospital Medicine Short Course

January 2021

Course developer and co-instructor

Developed the course and organized its delivery with 4 instructors

Enrollment = 20

Clinical Trials and Tribulations in a Global Pandemic

Stanford TRAM MED121/221

March, 2021

Guest Lecturer

Enrollment=20

Missing data in RCTs, Clinical Trial Course, Stanford University

April 2015 - 2022

Guest Lecturer

Enrollment= 25-40

Gear-Up Workshop: Data Science in Practice

Stanford University

October, 2022

Guest Speaker

KL12 Statistical Analysis in Basic and Clinical Science

Stanford University

March 2023

Guest Speaker

Enrollment = 15

Team Science Principles for Data Scientists

Statistical Horizons

September 2023

Lecturer

Enrollment = 8-12

Hands-on Training in Team Science Principles for the Practicing Data Scientist

Stanford University

April-June 2024
Lecturer
Enrollment pending

DOCTORAL THESIS AND EXAMINATION COMMITTEES

2024	Chloe Su, Department of Epidemiology and Clinical Research, Stanford University
2023	Minh Nguyen, Department of Biomedical Data Science, Stanford University
2023	Michael Hittle, Department of Epidemiology and Population Health, Stanford University
2023	Minh Nguyen, Department of Biomedical Data Science, Stanford University
2023	Jessica Ansari, Department of Epidemiology and Population Health, Stanford University
2022	Jessica Hinman, Department of Epidemiology and Population Health, Stanford University
2022	Heather Hall, Biomedical Informatic Student, Stanford University
2022	Rocky Aikens, Biomedical Informatics Student, Stanford University
2019	Christophe Toukam Tchakoute, Epidemiology Student, Stanford University
2017	Albee Ling, Biomedical Informatics Student, Stanford University
2015	Heather Hall, Biomedical Informatics Student, Stanford University
2013	Julie Kranick, Department of Epidemiology, Columbia University
2010	Yihong Zhao, Department of Biostatistics, Columbia University
2007	Heather Greenlee, Department of Epidemiology, Columbia University
2005	Elizabeth L. Kaufman, Department of Epidemiology, Columbia University
2004	John J. Doyle, Department of Epidemiology, Columbia University
2002	Mark Opler, Department of Epidemiology, Columbia University

GRADUATE STUDENT, FELLOWS, AND JUNIOR FACULTY MENTEES

Past:

2022-2022	Jessica Hinman, PhD candidate, Stanford University
2021-2022	Rocky Aikins, PhD candidate, BMI, Stanford University
2021	Safaa Dorian, MS student, San Francisco State University
2021	Sydney Nwakanma, MS student, San Francisco State University
2019 - 2021	Gopal Dhondalay, Postdoc Fellow, Stanford University
2019 - 2021	Ziyuan He, Postdoc Fellow, Stanford University
2019 - 2020	Christophe Toukam Tchakoute, PhD candidate, Stanford University
2017- 2020	Sandra Andorf, Assistant Professor, Cincinnati University
2016-2020	Albee Ling PhD, Stanford University (<i>winner of 2019 JSM travel award</i>)
2016-2020	Margaret Mary Antonio, PhD candidate, BMI, Stanford University
2018- 2019	Xiaorui Han, PhD, Fellow, Stanford University
2015- 2019	Maya Mathur, PhD, Assistant Professor, Stanford University
2017-2018	Nadine Zawadzki, PhD candidate, University of Southern California
2017-2018	Sahej Randhawa, Medical Student, University of California, San Diego
2015-2018	Madalina Fiterau, PhD, Assistant Professor, UMass Amherst
2015-2017	Manoj Sharma, PhD, Director of Biostatistics, Adaptive Biotechnologies
2015-2017	Jorge Banda, PhD, Assistant Professor, Purdue University
2015-2016	Patricia Chen, PhD, Postdoc Fellow, Stanford University
2012-2014	Hilary Boudet, PhD, Associate Professor, Oregon State University
2011-2013	Tammy Sirich, MD, Assistant Professor, Stanford University
2008-2010	Yihong Zhao, PhD, Associate Professor, Rutgers University
2006-2008	Rob Mitchell, MD, Medical Doctor at Concord Hospital, NH
2001-2002	Lilli Link, MD, Medical Doctor at Parsley Health, NY

Present:

2023	Chloe Su, PhD Candidate in Epidemiology & Clinical Research, Stanford University
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2022-Present	Ekene Enemchukwu MD, Stanford University
2022-Present	Rania Awaad MD, Stanford University
2022-Present	Michael Hughes, Instructor, Stanford University
2022-Present	Clifford Shecter MD, Stanford University
2022-Present	Michael Hittle, PhD Student, Stanford University
2021-Present	Neha Joshi, Fellow, Stanford University
2021-Present	Oana Maria Enache , PhD candidate, BMI, Stanford University
2021-Present	Kevin Yu, MS candidate, Stanford University
2021-Present	Jessica Ansari MD, MS candidate, Stanford University
2021-Present	Bryan Bunning, PhD candidate, BMI, Stanford University
2020-Present	Margaret Guo, PhD candidate, BMI, Stanford University
2020-Present	Shaimaa Bakr, MS candidate, BMI, Stanford University
2020-Present	Nicolas Deveau, MS candidate, BMI, Stanford University
2019-Present	Stephanie Lejeune PhD, Postdoc Fellow, Stanford University
2019-Present	Bibek Paudel PhD, Postdoc Fellow, Stanford University
2019-Present	Hesam Movassagh PhD, Postdoc Fellow, Stanford University
2019-Present	Seda Tierney MD, Stanford University
2019-Present	Alex Perino MD, Stanford University
2019-Present	Andy Sweatt MD, Stanford University
2019-Present	Jennifer Lee Caswell-Jin, MD, Stanford University
2019-Present	Abhinav Kaushik, Postdoc Fellow, Stanford University
2018-Present	Rayhan A. Lal, Stanford University
2018-present	Tiffany Eulalio, PhD candidate, BMI, Stanford University
2018-Present	Anava Wren, Assistant Professor, Stanford University
2018-Present	Marilyn Opppezzo, Stanford University
2018-Present	Laya Ekhlaspour, Instructor, Stanford University
2018-Present	Justin Thomas Parizo, Fellow, Stanford University
2018-Present	Zihuai He, PhD, Assistant Professor, Stanford University
2018-Present	John Patrick Hegarty, Postdoc Fellow, Stanford University
2017-present	Elizabeth Chin, PhD candidate, BMI, Stanford University
2017-present	Kelley Paskov, PhD candidate, BMI, Stanford University
2017-Present	Matthew Lungren, MD, Assistant Professor, Stanford University
2016-Present	Andrew Gentles, PhD, Assistant Professor, Stanford University
2015-Present	Hyatt Moore, PhD, Postdoc Fellow, Stanford University
2015-Present	Summer Han, PhD, Assistant Professor, Stanford University

PROGRAM DEVELOPMENT AND MENTORING

2003-2009	Co-Director of the Training Program in Cancer-Related Population Sciences, CU
2008	Mentor for Biostatistics Enrichment Summer Training (BEST) Program, CU
2008	Developed and delivered short course and mentored trainees in research methods for the Student Training Summer Institute, CU
2009- Present	Director, Quantitative Sciences Unit at Stanford University. As Founding Director of the QSU, I serve as mentor to over 30 data scientists including 4 junior faculty within the QSU.
2009-2015	Mentor, Patient Oriented Clinical Investigators in Nephrology at SU
2009-Present	Mentor, Intensive Course in Clinical Research (ICCR) at SU
2012- Present	Mentor, Development of Translational Scientists at SU
2014- Present	Member, Executive Committee for the Biomedical Informatics Research Program at SU
2018-2019	Mentor in the Interstellar Initiative workshop at the New York Academy of Science
2020-Present	Mentor, Data Scientists in Sean N. Parker Allery & Asthma Center at SU

COMMUNITY SERVICE

2002-2004	Tutor and Mentor, Grosvenor House, a community center providing after school childcare and education for underprivileged children aged 5-12 in New York, New York
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BIBLIOGRAPHY

(a) *Original, Peer-Reviewed Articles* (Total: 222; *indicates leadership role in authorship)

1. Liu PY, LeBlanc M, **Desai M**. False-positive rates for randomized phase II designs. *Control Clin Trials* 1999 Aug; 20(4):343-52. *Developed and implemented studies to investigate the implications of relying on randomized Phase II studies as definitive by simulating binary and exponential survival data for a range of plausible scenarios and characterizing the false-positive rates; Demonstrated the importance of the role of the Phase III study in providing conclusive evidence.*
2. Carr DB, McDonald GB, Brateng D, **Desai M**, Thach CT, Easterling TR. The relationship between hemodynamics and inflammatory activation in women at risk for preeclampsia. *Obstet Gynecol* 2001 Dec;98(6):1109-16. *Used a derived variables approach to correlate trajectories of inflammatory markers with high risk of pre-eclampsia, where trajectories were summarized by the rate of change in markers over time, and supplied principal interpretation.*
3. Lam JS, **Desai M**, Mansukhani MM, Benson MC, Goluboff ET. Is Hispanic race an independent risk factor for pathological stage in patients undergoing radical prostatectomy? *J Urol* 2003 Dec;170(6 PT 1):2288-91. *Applied logistic regression techniques to assess association between Hispanic race and pathologic stage for patients undergoing radical prostatectomy after adjusting for preoperative confounders. Provided principal interpretation and authored Methods and Results sections of manuscript.*
4. Weisberg SP, McCann D, **Desai M**, Rosenbaum M, Leibel RL, Ferrante AW Jr. Obesity is associated with macrophage accumulation in adipose tissue. *J Clin Invest* 2003 Dec;112(12):1796-808. *Developed novel application of Kendall's tau correlation statistic to identify genes relevant for adiposity. Challenges included high dimensionality of data on a small sample and the testing of a large number of hypotheses; Participated extensively in the design and interpretation of the study. Authored the Methods section of the manuscript.*
5. Goetzl MA, **Desai M**, Mansukhani M, Goluboff ET, Katz AE, Sawczuk IS, Benson MC, Olsson CA, McKiernan JM. Natural history and clinical outcome of sporadic renal cortical tumors diagnosed in the young adult. *Urology* 2004 Jan;63(1):41-5. *Utilized Cox proportional hazards models to characterize natural history of sporadic renal cortical tumors in the young adult; Supplied principal interpretation.*
6. Opler MG, Brown AS, Graziano J, **Desai M**, Zheng W, Schaefer C, Factor-Litvak P, Susser ES. Prenatal lead exposure, d- aminolevulinic acid, and schizophrenia. *Environ Health Perspect* 2004 Apr;112(5):548-52. *Supervised pre-doctoral trainee by aiding in designing the matched case-control study, identifying methods for analysis that included conditional logistic regression techniques and model selection methods that combined formal testing and assessment of changes in relevant parameters, implementing the analysis and interpreting the results.*
7. Bemis DL, Capodice JL, **Desai M**, Buttyan R, Katz AE. A concentrated aglycone isoflavone preparation (GCP) that demonstrates potent anti-prostate cancer activity in vitro and in vivo. *Clin Cancer Res* 2004 Aug 1; 10(15):5282-92. *Kruskal-Wallis methods and mixed effects models were applied to evaluate associations between an aglycone isoflavone preparation and proliferation of cells over time; Supplied principal interpretation and authored Methods and Results sections of manuscript.*
8. Chen AC, MacChia RJ, Conway F, Magai C, **Desai M**, Neugut AI. Prostate-specific antigen, sex steroid hormones, and the insulin-like growth factor axis in U.S.-born, Jamaican, and Haitian black men: a pilot study. *Urology* 2004 Sep;64(3):522-7. *Applied linear regression techniques to characterize known predictors of prostate cancer in U.S.-born, Jamaican, and Haitian black men; Supplied principal interpretation.*
9. Lam JS, Sclar JD, **Desai M**, Mansukhani MM, Benson MC, Goluboff ET. Is Hispanic race an important predictor of treatment failure following radical prostatectomy for prostate cancer? *J Urol* 2004 Nov;172(5 Pt 1):1856-9. *Developed Cox proportional hazards model to assess the importance of Hispanic race on treatment failure for men undergoing radical prostatectomy for prostate cancer; Supplied principal interpretation.*
10. ***Desai M**, Emond MJ. A new mixture model approach to analyzing allelic-loss data using Bayes factors. *BMC Bioinformatics* 2004 Nov 24;5:182. *Developed family of mixture models of beta-binomial distributions for the purpose of analyzing allelic-loss studies along with computational solutions for fitting proposed models,*

which involved the estimation of high-dimensional integrals; Designed and implemented experiments to evaluate proposed methods. Authored manuscript.

11. Gorin SS, Ashford AR, Lantigua R, Hossain A, **Desai M**, Troxel A, Gemson D. Effectiveness of academic detailing on breast cancer screening among primary care physicians in an underserved community. *J Am Board Fam Med* 2006 Mar-Apr; 19(2):110-21. *Adapted mixed effects linear regression models to assess efficacy of academic detailing on breast cancer screening that accounted for the correlation of patients' responses treated by particular physicians; Supplied principal interpretation.*
12. Zhou J, Garber E, **Desai M**, Saiman L. Compliance of clinical microbiology laboratories in the United States with current recommendations for processing respiratory tract specimens from patients with cystic fibrosis. *J Clin Microbiol* 2006 Apr; 44(4):1547-9. *Designed study and utilized survey methods to assess compliance of recommended guidelines for processing specimens from patients with cystic fibrosis; Supplied principal interpretation.*
13. Mitchell RE, **Desai M**, Shah JB, Olsson CA, Benson MC, McKiernan JM. Preoperative serum prostate specific antigen remains a significant prognostic variable in predicting biochemical failure after radical prostatectomy. *J Urol* 2006 May; 175(5):1663-7. *Developed series of Cox proportional hazards models and utilized concordance indices to evaluate predictive ability of prostate specific antigen over time; supplied principal interpretation and authored the Methods and Results sections of manuscript.*
14. McKiernan JM, Masson P, Murphy AM, Goetzel M, Olsson CA, Petrylak DP, **Desai M**, Benson MC. Phase I trial of intravesical docetaxel in the management of superficial bladder cancer refractory to standard intravesical therapy. *J Clin Oncol* 2006 Jul 1; 24 (19): 3075-80. *Designed Phase I trial, performed analysis and supplied principal interpretation.*
15. Herman DB, Brown AS, Opler MG, **Desai M**, Malaspina D, Bresnahan M, Schaefer CA, Susser ES. Does unwantedness of pregnancy predict schizophrenia in the offspring? Findings from a prospective birth cohort study. *Soc Psychiatry Psychiatr Epidemiol* 2006 Aug; 41 (8): 605-10. *Applied Cox proportional hazards techniques to assess whether maternal attitude toward pregnancy was associated with development of schizophrenia; Supplied principal interpretation.*
16. Shen J, **Desai M**, Agrawal M, Kennedy DO, Senie RT, Santella RM, Terry MB. Polymorphisms in nucleotide excision repair genes and DNA repair capacity phenotype in sisters discordant for breast cancer. *Cancer Epidemiol Biomarkers Prev* 2006 Sep; 15(9):1614-9. *Conditional logistic regression models were developed to identify single nucleotide polymorphisms relevant to DNA repair processes. Challenges included accounting for correlation induced by matching in study design and the high dimensionality of the data; Supplied principal interpretation, and authored the Methods and Results section of the manuscript.*
17. Fine RL, Chen J, Balmaceda C, Bruce JN, Huang M, **Desai M**, Sisti MB, McKhann GM, Goodman RR, Bertino JS Jr, Nafziger AN, Fetell MR. Randomized study of paclitaxel and tamoxifen deposition into human brain tumors: implications for the treatment of metastatic brain tumors. *Clin Cancer Res* 2006 Oct 1; 12(19): 5770-6. *Developed multivariable linear regression models on transformed outcomes to assess the impact of a new combination therapy on concentration of active agent; Provided principal interpretation.*
18. Mitchell RE, Shah JB, **Desai M**, Mansukhani MM, Olsson CA, Benson MC, McKiernan JM. Changes in prognostic significance and predictive accuracy of Gleason grading system throughout PSA era: impact of grade migration in prostate cancer. *Urology* 2007 Oct; 70(4):706-10. *Applied Cox proportional hazards models together with concordance indices to evaluate change in association and predictive ability of Gleason score over time; Supplied principal interpretation and authored Methods and Results sections of manuscript.*
19. Guerrero-Preston R, Santella RM, Blanco A, **Desai M**, Berdasco M, Fraga M. Global DNA hypomethylation in liver cancer cases and controls: a phase I preclinical biomarker development study. *Epigenetics* 2007 Oct-Dec; 2(4):223-6. *Applied logistic regression techniques and Wilcoxon Rank Sum tests to correlate methylation with liver cancer; Participated in interpretation of results.*
20. Gorin SS, Ashford AR, Lantigua R, **Desai M**, Troxel A, Gemson. Implementing academic detailing for breast cancer screening in underserved communities. *Implement Sci* 2007 Dec 17; 2:43. *Identified appropriate methods involving Analysis of Variance techniques to evaluate efficacy of academic detailing on changes in*

breast cancer screening, implemented analysis and participated extensively in interpreting results.

21. Fine RL, Fogelman DR, Schreiber SM, **Desai M**, Sherman W, Strauss J, Guba S, Andrade R, Chabot J. The gemcitabine, docetaxel, and capecitabine (GTX) regimen for metastatic pancreatic cancer: a retrospective analysis. *Cancer Chemother Pharmacol* 2008 Jan; 61(1):167-75. *Applied Kaplan-Meier method to estimate survival by relevant groups and supplied principal interpretation. Authored Methods and Results section of manuscript.*
22. Kaufman EL, Jacobson JS, Hershman DL, **Desai M**, Neugut AI. Effect of breast cancer radiotherapy and cigarette smoking on risk of second primary lung cancer. *J Clin Oncol* 2008 Jan 20; 26(3):392-8. *Supervised pre-doctoral trainee by participating in designing the matched case-control study, developed conditional logistic regression models to account for the correlation induced by the design, and aided in interpreting results.*
23. ***Desai M**, Begg MD. A comparison of regression approaches for analyzing clustered data. *Am J Public Health* 2008 Aug; 98(8):1425-9. *Developed and implemented study to illustrate the proper specification of popular tools such as mixed effects models and generalized estimating equations approaches for analyzing data in the presence of clustering. Analyzed the results, proposed guidelines for appropriate use of methods when analyzing correlated data and authored the paper.*
24. *Garber E, **Desai M**, Zhou J, Alba L, Angst D, Cabana M, Saiman L; CF Infection Control Study Consortium.. Barriers to adherence to cystic fibrosis infection control guidelines. *Pediatr Pulmonol* 2008 Sep; 43(9):900-7. **Primary co-author. Participated extensively in securing funds for this project, designed study, applied survey methods for analyzing data, implemented analysis and interpreted results. Authored the manuscript.*
25. Laudano MA, Klafter FE, Katz M, McCann TR, **Desai M**, Benson MC, McKiernan JM. Pathological tumor diameter predicts risk of conventional subtype in small renal cortical tumors. *BJU Int* 2008 Nov; 102(10):1385-8. *Logistic regression techniques were used to determine whether tumor diameter aids in predicting histological subtypes in renal cortical tumors; Supplied principal interpretation. Authored Methods and Results sections of manuscript.*
26. Kaufman BD, **Desai M**, Reddy S, Osorio JC, Chen JM, Mosca RS, Ferrante AW, Mital S. Genomic profiling of left and right ventricular hypertrophy in congenital heart disease. *J Card Fail* 2008 Nov; 14(9):760-7. *Applied unsupervised hierarchical clustering and t-tests to identify genes potentially relevant to congenital heart disease; Provided principal interpretation.*
27. Mann MJ, DeCastro GJ, **Desai M**, Benson MC, McKiernan JM. Predictive significance of surgical margin status following prostatectomy for prostate cancer over the PSA era. *Urology* 2008 Dec; 72(6):1203-7. *Applied Cox proportional hazards models along with concordance indices to demonstrate persistent associations of positive margins with failure over time but decreasing contributions of positive margins in its predictive ability of failure over time. Provided principal interpretation.*
28. Pierorazio P, **Desai M**, McCann T, Benson M, McKiernan J. The relationship between preoperative prostate-specific antigen and biopsy Gleason sum in men undergoing radical retropubic prostatectomy: a novel assessment of traditional predictors of outcome. *BJU Int* 2009 Jan; 103(1):38-42. *Applied Cox proportional hazards techniques together with concordance indices to evaluate traditional predictors of biochemical failure for men undergoing radical prostatectomy and supplied principal interpretation of results. Wrote the Methods and Results sections of manuscript.*
29. Laudano MA, Lambert SM, Masson P, McCann TR, **Desai M**, Benson MC, McKiernan JM. How often do available preoperative risk factors accurately predict risk assessed postoperatively in localized prostate cancer? *BJU Int* 2009 Feb; 103(3):317-20. *Used logistic regression techniques to relate preoperative characteristics to post-operative change in prognosis; Supplied principal interpretation.*
30. Bemis D, Katz A, Capodice JL, **Desai M**, Hall J, Buttyan R. beta-carboline alkaloid enriched extract from the amazonian rainforest tree pao Pereira suppresses prostate cancer cells. *J Soc Integr Oncol* 2009 Spring; 7(2): 59-65. *Participated extensively in designing the study, identified a U-shaped dose response curve using flexible linear regression techniques suggesting potential efficacy of anti-growth activity within a narrow dose range and supplied principal interpretation.*

31. Crew KD, Gammon MD, Steck SE, Hershman DL, Cremers S, Dworakowski E, Shane E, Terry MB, **Desai M**, Teitelbaum SL, Neugut AI, Santella RM. Association between plasma 25-hydroxyvitamin D and breast cancer risk. *Cancer Prev Res (Phila)* 2009 Jun; 2(6):598-604. *Identified appropriate methods that involved logistic regression methods for analyzing data, implemented analysis and participated extensively in interpreting results.*
32. Greenlee H, Gammon MD, Abrahamson PE, Gaudet MM, Terry MB, **Desai M**, Teitelbaum SL, Neugut AI, Jacobson JS. Prevalence and predictors of antioxidant supplement use during breast cancer treatment: The Long Island Breast Cancer Study Project. *Cancer* 2009 Jul; 115(14): 3271-82. *Developed polytomous regression models to identify factors associated with the use of antioxidant supplements among breast cancer patients using a thoughtful model selection procedure that involved a combination of formal testing and assessment of changes in relevant parameters; Provided principal interpretation and authored Methods section of manuscript.*
33. Laudano MA, Badani KK, McCann TR, Mann MJ, Ritch C, **Desai M**, Benson MC, McKiernan JM. Significant change in predicted risk of biochemical recurrence after radical prostatectomy more common in black than in white men. *Urology* 2009 Sep; 74(3):660-4. *Designed study to evaluate whether popular tool for estimating risk of recurrence, the Kattan nomogram, should be updated to incorporate data on race using logistic regression techniques; Provided principal interpretation.*
34. Tehranifar P, Neugut AI, Phelan JC, Link BG, Liao Y, **Desai M**, Terry MB. Medical advances and racial/ethnic disparities in cancer survival. *Cancer Epidemiol Biomarkers Prev* 2009 Oct; 18(10):2701-8. *Adapted Cox proportional hazards models to describe increase in racial disparities for survival of cancer over secular time; Provided principal interpretation.*
35. Borgovan T, Bellistri JP, Slack KN, Kopelovich L, **Desai M**, Joe AK. Inhibition of BCL2 expression and activity increases H460 sensitivity to the growth inhibitory effects of polyphenon E. *J Exp Ther Oncol* 2009; 8(2): 129-44. *Designed study and applied unsupervised hierarchical clustering techniques to assess whether polyphenon E-sensitive cells clustered separately from polyphenon E-resistant cells; Derived list of genes potentially relevant to the growth inhibition process with careful consideration of multiple testing issues present in high throughput data by controlling the false discovery rate and supplied principal interpretation. Wrote the Methods and Results section of the manuscript.*
36. Murphy AM, Berkman DS, **Desai M**, Benson MC, McKiernan JK, Badani KK. The number of negative pelvic lymph nodes removed does not affect the risk of biochemical failure after radical prostatectomy. *BJU Int* 2010 Jan; 105(2): 176-9. *Designed study and developed series of models using Cox proportional hazards techniques, which, contrary to previous findings, indicated yield of lymph nodes did not indicate better survival for patients with radical prostatectomy and suggested sources of bias in previous studies; Provided principal interpretation.*
37. Laudano MA, Barlow LJ, Murphy AM, Petrylak DP, **Desai M**, Benson MC, McKiernan JM. Long-term clinical outcomes of a phase I trial of intravesical docetaxel in the management of non-muscle-invasive bladder cancer refractory to standard intravesical therapy. *Urology* 2010 Jan; 75(1): 134-7. *Designed study, identified appropriate methods for analyzing data, implemented analysis and supplied interpretation.*
38. Linde, R, Peng L, **Desai M**, Feldman D. The Role of vitamin D and the SLC01B1*5 gene polymorphism in statin-associated myalgias. *Dermato-Endocrinology* 2010 Apr; 2(2):77-84. *Designed retrospective cohort study and applied logistic regression techniques to address whether a particular single nucleotide polymorphism modified the effect of vitamin D on risk of statin-associated myalgias. Challenges included missing data on genotype, which induced a selection bias, and a small sample size, both of which demanded careful interpretation. Wrote the Methods and Results sections and co-wrote the Discussion section of the manuscript*
39. Kranick JA, Schaefer C, Rowell S, **Desai M**, Petrek JA, Hiatt RA, Senie RT. Is pregnancy after breast cancer safe? *Breast J* 2010 Jul-Aug; 16(4):404-11. *Supervised my pre-doctoral trainee by participating extensively in designing the matched case-control study, identifying appropriate methods involving Cox proportional hazards techniques stratified by matched sets to account for the correlation induced by the study design, and aiding in interpreting results.*

40. Lee DJ, Ritch C, **Desai M**, Benson MC, McKiernan JM. The interaction of body mass index and race in predicting biochemical failure after radical prostatectomy. *BJU Int* 2011 Jun;107(11):1741-7. *Utilized Cox proportional hazards techniques to evaluate synergistic effects of BMI and race and supplied principal interpretation.*
41. Korets R, Motamedinia P, Yeshchina O, **Desai M**, McKiernan JM. Accuracy of the Kattan nomogram across prostate cancer risk-groups. *BJU Int* 2011 Jul; 108(1):56-60. *Evaluated the predictive ability of a popular statistical tool for predicting recurrence of prostate cancer for patients of extreme risk (low or high) using concordance indices. Designed and carried out study, and supplied principal interpretation.*
42. Piggott K, Deng J, Warrington K, Younge B, Kubo JT, **Desai M**, Goronzy JJ, Weyand CM. Blocking the NOTCH pathway inhibits vascular inflammation in large vessel vasculitis. *Circulation* 2011 Jan 25; 123(3): 309-18. *Identified mixed effects models to account for the correlation of measurements within graft donor, implemented analysis and interpretation. Authored the Statistical Analysis section and co-authored the Results section.*
43. Chang TI, Friedman GD, Cheung AK, Greene T, **Desai M**, Chertow GM. Systolic blood pressure and mortality in prevalent hemodialysis patients in the HEMO study. *J Hum Hypertens* 2011 Feb; 25(2): 98-105. *Identified appropriate methods for analyzing data, which involved careful modeling of time-varying factors with Cox proportional hazards. Interpreted the results accounting for time-varying conditions enabled via multiple models with varying functional forms.*
44. Chang TI, **Desai M**, Solomon DH, Winkelmayer WC. Kidney function and long-term medication adherence after myocardial infarction in the elderly. *Clin J Amer Soc Nephrol* 2011 Apr; 6 (4): 864-9. *Identified appropriate methods for analyzing data, which included linear mixed effects models with a random effect and random slope to account for correlation of observations within a patient and participated extensively in interpreting results.*
45. Chang TI, Paik J, Greene T, **Desai M**, Bech F, Cheung AK, Chertow GM. Intradialytic hypotension and vascular access thrombosis. *J Am Soc Nephrol* 2011 Aug;22 (8): 1526-33. *Developed a negative binomial model fitted through generalized estimating equations that assumed an autoregressive correlation structure for clustered observations to identify correlates of fistula thrombosis. Challenges included correlated observations, overdispersed data, and time-varying covariates. The latter complicated interpretability, which was addressed through carefully designed sensitivity analyses. Provided principal interpretation and authored Methods and Results sections.*
46. ***Desai M**, Kubo J, Esserman D, Terry MB. The handling of missing data in molecular epidemiology studies. *Cancer Epidemiol Biomarkers Prev* 2011 Aug; 20(8). *Developed and implemented study to characterize the handling of missing data in molecular epidemiology and proposed guidelines for analyzing molecular epidemiology studies in the presence of missing data. Wrote the paper.*
47. ***Tan JC**, Paik J, Chertow GM, Grumet FC, Busque S, Lapasia J, **Desai M**. Validity of surrogate measures for functional nephron mass. *Transplantation* 2011 Dec 27;92(12):1335-41. *Derived and validated new prediction rule for measuring nephron mass using forward step-wise regression techniques. Authored the Methods, Results and Discussion sections of the manuscript.*
48. ***Desai M**, Esserman D, Gammon M, Terry MB. The use of complete-case and multiple imputation-based analyses in molecular epidemiology studies that assess interaction effects. *Epidemiologic Perspectives & Innovations* 2011 Oct 6;8(1):5. *Developed and implemented experiments to characterize the bias from a complete-case analysis when data are not missing at random; Assessed performance of particular multiple imputation-based approach when interest lies in assessing interactions. Authored the manuscript.*
49. Yang JY, Lee Tc, Montez-Rath ME, Paik J, Chertow GM, **Desai M**, Winkelmayer WC. Trends in acute non-variceal upper gastrointestinal bleeding in U.S. patients on dialysis. *J Am Soc Nephrol* 2012 Mar; 23(3):495-506. [Epub ahead of print]. *Developed novel application of Poisson regression models using generalized estimating equations together with multiple imputation in order to evaluate secular trends in upper GI bleeds.*
50. ***Khush K**, Kubo J, **Desai M**. Influence of donor and recipient sex mismatch on heart transplantation outcomes: Analysis of the ISHLT Registry. *J Heart Lung Transplant* 2012 May;31(5):459-66. *Adapted Cox proportional hazards models to evaluate synergistic impact of donor and recipient sex on heart transplant*

outcomes. One challenge included informative missingness of key variables requiring comparison of multiple models for interpretation. Authored the Methods and Results sections and co-authored the Discussion and Introduction sections of the manuscript.

51. Kim JP, **Desai M**, Chertow GM, Winkelmayer WC: Validation of Reported Predialysis Nephrology Care of Older Patients Initiating End-Stage Renal Disease Treatment. *J Am Soc Nephrol* 2012 Jun;23(6):1078-85. *Applied Kappa statistic and linear and Cox regression techniques to assess agreement between claims and the medical evidence report and to identify its correlates. Provided principal interpretation and wrote the Methods and Results sections of the manuscript.*
52. Yang JY, Lee TC, Montez-Rath ME, **Desai M**, Winkelmayer WC. Trends in the Incidence of Intestinal Perforation in U.S. Dialysis Patients (1992-2005). *J Nephrol.* 2012; 26(2)281-8. *Developed Poisson regression model using generalized estimating equations to account for the correlation of observations within patients to study secular trends in intestinal perforation over time and supplied principal interpretation.*
53. *Tan JC, Kim JP, Chertow GM, Grumet FC, **Desai M**. Donor-recipient sex mismatch in kidney transplantation. *Gender Medicine* 2012 Oct; 9(5):335-347. E2. *Adapted Cox proportional hazards techniques together with multiple imputation to enable understanding of the impact of donor sex as it varies by recipient sex on graft failure while accounting for severe systematic missingness of an important confounder. Authored the manuscript.*
54. Ladabaum U, Fioritto A, Mitani A, **Desai M**, Kim JP, Rex DK, Imperiale T, Gunaratnam N. Real-Time optical biopsy of colon polyps with narrow-band imaging in community practice does not meet key thresholds for clinical decisions. *Gastroenterology*; 2012 Oct; S0016-5085(12)01455-2. *Designed analysis plan and oversaw implementation of analysis. Provided principal interpretation. Wrote Methods and Results sections.*
55. ***Desai M**, Bryson SW, Robinson T. On the use of robust estimators for standard errors in the presence of clustering when clustering membership is misspecified. *Contemp Clin Trials* 2013; 34(2):248-56. *Designed simulation study to characterize the implications of mis-specifying cluster membership when robustly estimating standard errors in the presence and absence of clustering. Analyzed and interpreted the results. Wrote the manuscript.*
56. *Bavinger C, Bendavid E, Niehaus K, Olshen RA, Olkin I, Sundaram V, Wein N, Holodniy M, Hou N, Owens DK, **Desai M**. Risk of cardiovascular disease from antiretroviral therapy for HIV: a systematic review. *PLoS ONE* 2013; 8(3): e59551. *Developed methods for conducting meta-analysis. Challenges included heterogeneous definitions of exposure and outcome across studies and overlap of cohorts across individual studies. Identified methodological limitations of studies contributing to meta-analysis and provided interpretation of findings. Wrote manuscript.*
57. Sims ST, Kubo J, **Desai M**, Bea J, Beasley JM, Manson JE, Allison M, Seguin RA, Chen Z, Michael YL, Sullivan SD, Beresford S, Stefanick ML. Changes in physical activity and body composition in post-menopausal women over time. *Med Sci Sports Exerc.* 2013, 45(8)1486-92. *Developed analysis plan and oversaw implementation of analysis. Provided interpretation. Co-wrote manuscript with Jessica Kubo.*
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accounting for correlation of responses among employees, missingness that fails conventional methods for its handling, and variability of baseline hazard over time. Wrote the manuscript.

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32(11):1669-76. *Designed the study, developed analysis plan, and oversaw implementation of analysis. Provided principal interpretation. Wrote the methods, results, and discussion sections and co-wrote other sections.*

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profiling and chemotherapy in early-stage breast cancer: a study of linked electronic medical records, cancer registry data, and genomic data across two health care systems. *J Oncol Pract.* 2016 Jun;12(6):e697-709. *Designed the study, oversaw analysis, provided principal interpretation, and edited manuscript.*

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Neurosurgery. Epub: 2018 Apr 6. *Re-designed study. Oversaw analysis and provided principal interpretation of findings.*

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197. *Montez-Rath ME, Lubwama R, Kapphahn K, Ling AY, LoCasale R, Robinson L, Chandross KJ, **Desai M**. *Characterizing real world safety profile of oral Janus kinase inhibitors among adult atopic dermatitis patients: evidence transporting from the rheumatoid arthritis population*. *Curr Med Res Opin*. 2022 Aug;38(8):1431-1437. doi: 10.1080/03007995.2022.2088715. Epub 2022 Jun 28. PMID: 35699028.
198. Jia X, Cao S, Lee AS, Manohar M, Sindher SB, Ahuja N, Artandi M, Blish CA, Blomkalns AL, Chang I, Collins WJ, **Desai M**, Din HN, Do E, Fernandes A, Geng LN, Rosenberg-Hasson Y, Mahoney MR, Glascock AL, Chan LY, Fong SY; CLIAHUB Consortium; Chan Zuckerberg Biohub, Phelps M, Raeber O; Stanford COVID-19 Biobank Study Group, Purington N, Röltgen K, Rogers AJ, Snow T, Wang TT, Solis D, Vaughan L, Verghese M, Maecker H, Wittman R, Puri R, Kistler A, Yang S, Boyd SD, Pinsky BA, Chinthrajah S, Nadeau KC. *Anti-nucleocapsid antibody levels and pulmonary comorbid conditions are linked to post-COVID-19 syndrome*. *JCI Insight*. 2022 Jul 8;7(13):e156713. doi: 10.1172/jci.insight.156713. PMID: 35801588; PMCID: PMC9310538. *Participated in design, overseeing analysis and interpretation of findings.*
199. *Kapphan K, Banda J, Haydel F, Robinson T, **Desai M**. Simulation-based evaluation of methods for handling non-wear time in accelerometer studies of physical activity. *J Measurement of Physical Behaviour*. 2022 May. Published online 12 Jul 2022.
200. Hanlon A., Lozano A., Prakash S., Bezar E., Ambrosius W., Brock G., **Desai M.**, Pollock B., Sammel M., Spratt H., Welty L., Pomann G., *A Comprehensive Survey of Collaborative Biostatistics Units in Academic Health Centers*. *J STAT*. 2022 August. In Press.
201. Sun X, Haydel KF, Matheson D, **Desai M**, Robinson TN. *Are mobile phone ownership and age of acquisition associated with child adjustment? A 5-year prospective study among low-income Latinx children*. *Child Dev*. 2023 Jan. Published. doi: 10.1111/cdev.13851. Epub 2022 Sep 2. PMID: 36056573; PMCID: PMC9780147.
202. Zaharieva P D, Addala A, Prahalad P, Leverenz B, Arrizon-Ruiz N, Ding V, **Desai M**, Amy B. Karger, David M. Maahs; *An Evaluation of Point-of-Care HbA1c, Home Kit HbA1c, and Glucose Management Indicator: Potential Solutions to Glycemic Assessment for Telehealth*. 27 June 2022. Published 13 Sep 2022.
203. Jacobson KB, Purington N, Parsonnet J, Andrews J, Balasubramanian V, Bonilla H, Edwards K, **Desai M**, Singh U, Hedlin H, Jagannathan P. Inflammatory but not respiratory symptoms are associated with ongoing upper airway viral shedding in outpatients with uncomplicated COVID-19. *Diagn Microbiol Infect Dis*. 2022 Mar;102(3):115612. doi: 10.1016/j.diagmicrobio.2021.115612. Epub 2021 Nov 28. PMID: 34974350; PMCID: PMC8627385. *Participated in design, overseeing analysis and interpretation of findings.*

204. *Jreich, R., Montez-Rath, M., Meng, Z., Kapphahn, K., Chandross, K., **Desai, M.** *Transporting observational study results to a target population of interest using inverse odds of participation weighting.* PLOS ONE. 2022 Nov. In Press.
205. Ladabaum, U., Shepard, J., Weng, Y., **Desai, M.**, Singer, S. J., & Mannalithara, A. *Computer-Aided Detection of Polyps Does Not Improve Colonoscopist Performance in a Pragmatic Implementation Trial.* Gastroenterology. Published 2022 Dec 16. <https://doi.org/10.1053/j.gastro.2022.12.004>.
206. Myers LC, Knox D, Thai KK, Kipnis P, Jacobs J, Lee C, **Desai M**, Devis Y, Clancy H, Lu YW, Go AS, Liu VX, Walkey AJ. *Predicting Cardiovascular Events after Sepsis with Death as a Competing Risk.* Ann Am Thorac Soc. 2023 Jan. Published. 20(1):145-148. doi: 10.1513/AnnalsATS.202206-536RL. PMID: 36122170; PMCID: PMC9819256.
207. Tierney, E. S., Palaniappan, L., Leonard, M., Long, J., Myers, J., Dávila, T., Lui, M. C., Kogan, F., Olson, I., Pun, R., **Desai, M.**, Schneider, L. M., Wang, C.-H., Cooke, J. P., & Bernstein, D. *Design and rationale of re-energize fontan: Randomized exercise intervention designed to maximize fitness in Fontan patients.* American Heart Journal. 2023 Feb 6. Published. <https://doi.org/10.1016/j.ahj.2023.02.006>
208. Ong'uti SK, Artandi M, Betts B, Weng Y, **Desai M**, Lentz C, Nelligan I, Ha DR, Holubar MK. *A quality-improvement approach to urgent-care antibiotic stewardship for respiratory tract infections during the COVID-19 pandemic: Lessons learned.* Infect Control Hosp Epidemiol. 2023 Feb 23. Published.
209. *Pomann G., Truong T., Boulos M., Boulware L. E., Brouwer N R., Curtis L., Kapphahn K., Khalatbari S., McKeel J., Messinger S., O'Hara R., Pencina J. M., Samsa P. G., Spino C., Yang Z L., **Desai M.**, *Needles in a haystack: Finding qualitative and quantitative collaborators in academic medical centers.* Academic Medicine. Mar 2023, Published.
210. Walkey A., Myers C L., Thai K K. , Kipnis P., **Desai M.**, Go S A., Lu W Y., Clancy H., Devis Y., Neugebauer R., Liu X V. *Practice patterns and outcomes associated with anticoagulation use following sepsis hospitalizations with new-onset atrial fibrillation.* Circulation. Mar 2023. Published.
211. *Randhawa S. and Sharma M., Fiterau M., Banda J., Haydel F., Kapphahn K., Matheson D., Moore IV H., Ball R., Kushida C., Delp S., Wall D., Robinson T., and **Desai M.**, *Statistical learning methods to identify non-wear periods from accelerometer data.* Journal for the Measurement of Physical Behavior. Apr 2023. Published.
212. Addala A, Ding V, Zaharieva DP, Bishop FK, Adams AS, King AC, Johari R, Scheinker D, Hood KK, **Desai M**, Maahs DM, Prahalad P; Teamwork, Targets, Technology, and Tight Control (4T) Study Group. *Disparities in Hemoglobin A1c Levels in the First Year After Diagnosis Among Youths With Type 1 Diabetes Offered Continuous Glucose Monitoring.* JAMA Netw Open. 2023 Apr 3. Published. doi: 10.1001/jamanetworkopen.2023.8881. PMID: 37074715; PMCID: PMC10116368.
213. Levitt JE, Hedlin H, Duong S, Lu D, Lee J, Bunning B, Elkarra N, Pinsky BA, Heffernan E, Springman E, Moss RB, Bonilla HF, Parsonnet J, Zamanian RT, Langguth JJ, Bollyky J, Khosla C, Nicolls MR, **Desai M**, Rogers AJ. *Evaluation of Acebilustat, a Selective Inhibitor of Leukotriene B4 Biosynthesis, for Treatment of Outpatients With Mild-Moderate Coronavirus Disease 2019: A Randomized, Double-Blind, Placebo-Controlled Phase 2 Trial.* Clin Infect Dis. 2023 Jul 26. Published.
214. *Yu, Jingzhi, Kapphahn, Kristopher, Moore, Hyatt, Haydel, Farish, Robinson, Thomas, & Desai. Manisha. *Prediction Strength for Clustering Activity Patterns Using Accelerometer Data.* Journal for the Measurement of Physical Behaviour. 2023. Published <https://doi.org/10.1123/jmpb.2022-0049>.
215. Judson T., Zhang S., Lindan C., Boothroyd D., Grumbach K., Bollyky J., Sample H., Huang B., **Desai M.**, Gonzales R., Maldonado Y. and Rutherford G. Association of protective behaviors with SARS-CoV-2

infection: Results from a longitudinal cohort study of adults in the San Francisco Bay Area. *Annals of Epidemiology*. 2023 October. Published. <https://doi.org/10.1016/j.annepidem.2023.07.009>

216. Castaño N., Chua K., Kaushik A., Kim S., Cordts C. S., Nafarzadegan. D. C., Hofmann H. G., Seastedt H., Schuetz P. J., Dunham D., Parsons S. E., Tsai M., Cao S., **Desai M.**, Sindher B. S., Chinthraiah S., J. Galli S., Nadeau C. K., K. Y. Tang S.. *Combining avidin with CD63 improves basophil activation test accuracy in classifying peanut allergy*. *Allergy*. 2023 November. Published.
217. Lejeune S., Kaushik A., Parsons E S., Chinthraiah S., Snyder M., **Desai M.**, Manohar M., Prunicki M., Contrepolis K., Gosset P., Deschildre A., Nadeau K. *Untargeted metabolomic profiling in children identifies novel pathways in asthma and atop*. *Journal of Allergy and Clinical Immunology*. 2023 November. Published.
218. Zaharieva DP, Ding V, Addala A, Prahalad P, Bishop F, Hood K, **Desai M**, Wilson DM, Buckingham BA, Maahs DM. *Diabetic ketoacidosis (DKA) at diagnosis in youth with type 1 diabetes (T1D) is associated with a higher hemoglobin A1c even with intensive insulin management*. *Diabetes Technol Ther*. 2023 Nov 13. Published.
219. *Ling, A.Y., Montez-Rath, M.E., Carita, P., Chandross, K., Lucats, L., Meng, Z., Sebastien, B., Kapphahn, K. and **Desai, M.** An Overview of Current Methods for Real-World Applications to Generalize or Transport Clinical Trial Findings to Target Populations of Interest. *Epidemiology*. March 2023. In Press.
220. *Bunning B., Hedlin H., Chen H J., Ciolino D J., Ferstad O J., Fox E., Garcia A., Go A., Johari R, Lee J., Maahs M D., Mahaffey W K., Opsahl-Ong K., Perez M., Rochford K., Scheinker D., Spratt M, Turakhia M., and **Desai M**. The Evolving Role of Data & Safety Monitoring Boards for Real-World Clinical Trials. *Journal of Clinical and Translational Science*. June 2023. In Press.
221. Zimmermann F., Ding V., H.J. Pijls N., Piroth Z., Straten V., Szekely L., Davidavičius G., Kalinauskas G., Mansour S., Kharbanda R., Östlund-Papadogeorgos N., Aminian A., Oldroyd K., Al-Attar N., Jagic N., Dambrink J., Kala P., Angerås O., MacCarthy P., Wendler O., Casselman F., Witt N., Mavromatis K., Miner S., Sarma J., Engström T., Christiansen E., Tonino P., Reardon M., Otsuki H., Kobayashi Y., Hlatky M., Mahaffey K., **Desai M.**, Woo J., C. Yeung A., De Bruyne B., and Fearon W. Fractional Flow Reserve-Guided PCI or Coronary Bypass Surgery for Three-Vessel Coronary Artery Disease. *Circulation AHA*. 2023 July. In Press.
222. Myers L., Peltan I., Thai K., Kipnis P., **Desai M.**, Devis Y., Clancy H., Lu Y., Brown S., Go A., Neugebauer R., Liu V., Walkey A. *Predicting stroke risk after sepsis hospitalization with new onset atrial fibrillation*. *Journal of Hospital Medicine ICMJE*. 2023 November. In Press

(b) Other Publications

1. **Desai M.** A commentary on the study by Veleva, et al. Human Reproduction. *Advance Access*. 2009 Mar. doi:10.1093/humrep/dep042.
2. **Desai M.** The use of multiple imputation in molecular epidemiologic studies assessing interaction effects. *COBRA Preprint Series* 2010; Article 73. <http://biostats.bepress.com/cobra/ps/art73>
3. **Desai M.** The handling of missing data in molecular epidemiologic studies. *COBRA Preprint Series* 2010; Article 72. <http://biostat.bepress.com/ps/art72>.
4. Mathur MB, Kapphahn K, Garcia A, **Desai M**, Montez-Rath ME (2017). “SimTimeVar: Simulate Longitudinal Dataset with Time-Varying Correlated Covariates.” Retrieved from: <https://cran.r-project.org/web/packages/SimTimeVar/index.html>.
5. Turakhia MP, **Desai M**, Perez MV, Apple Heart Study Investigators. A smartwatch to identify atrial fibrillation. Reply. *The New England Journal of Medicine*. 2020 Feb 29.

6. Ling, A.Y., Montez-Rath, M.E., Carita, P., Chandross, K., Lucats, L., Meng, Z., Sebastien, B., Kapphahn, K. and **Desai, M.**, 2022. A Critical Review of Methods for Real-World Applications to Generalize or Transport Clinical Trial Findings to Target Populations of Interest. *arXiv preprint arXiv:2202.00820*. May 2023. Published.

INTERNATIONAL CONFERENCES

1. Desai M, Emond MJ. *Methods for Testing for More Than One Population of Proportions with Application to Allelic-loss Data*. International Biometric Society, Eastern North American Region (ENAR), Atlanta, GA 1999
2. Desai M, Emond MJ. *A New Importance-sampling Method for Computing Bayes Factors in Mixture Models with Application to Allelic-loss Data*, International Biometric Conference, Western North American Region (WNAR), San Francisco, CA 2000
3. Desai M. *Mixture Models for P-values Applied to Microarray Experiments*, Joint Statistical Meetings, New York, NY 2002
4. Desai M. *Multiple Imputation as a Bias-Reducing Tool for Non-Ignorably Missing Data*, Frontiers of Applied Computation and Mathematics, Newark, NJ 2008
5. Desai M, Terry MB. *Using Auxiliary Data in Molecular Epidemiologic Studies*, Society for Epidemiologic Research, Anaheim, CA 2009
6. Desai M. *Imputation Methods for Handling Missing data*, American Society of Nephrology, Denver, CO 2010
7. Desai M, Bryson S, Robinson T. *The Implications of Misspecifying Cluster Membership When Robustly Estimating Standard Errors in the Presence of Clustering*, Joint Statistical Meetings, San Diego, CA 2012
8. Desai M, Mitani A, Robinson T. *Multiple Imputation in the Presence of Derived Variables*, Joint Statistical Meetings, Montreal, Canada 2013
9. Desai M. Panel Discussion on *Strategies and Implications for Developing Biostatistical Entities in Academic Health Centers* with Dick Landis, Bradley Pollock, Michael Parides, J. Jack Lee. Moderated by Giovanni Parmigianni, Joint Statistical Meetings, Boston, MA 2014
10. Desai M, Panel Discussion on *Strategies for the Recruitment, Retention, and Successful Career Development of the Collaborative Biostatistician in an Academic Health Centers* with Dick Landis, Mimi Kim, Soledad Fernandez, Chris Lindsell. Moderated by Madhu Mazumdar, Joint Statistical Meetings, Seattle, WA 2015
11. Desai M. *The integration of the data scientist into the team: Implications and Challenges*. Women in Statistics and Data Science Conference, San Diego, CA 2017
12. Desai M. *Incorporating mobile health data into clinical trials*. Women in Data Science (WiDS) Conference. Stanford, CA. March 2018.
13. Desai M. *Collaborative Biostatistics: Finding a Happy Medium in Bridging the Gap between Theory and Practice*. Joint Statistical Meetings, Vancouver, July 2018
14. Desai M. *Data Scientists in DMC*. DCRI Think Tank: Emerging Techniques for Monitoring and Analyzing Data from Pragmatic Streamlined Trials, Washington DC, January 2019
15. Desai M. *Factor that influence the generalizability of the PCT*. DCRI Think Tank: Emerging Techniques for Monitoring and Analyzing Data from Pragmatic Streamlined Trials, Washington DC, January 2019
16. Desai M, Panel Discussion on *Building a career in data science*, Women in Data Science Conference, Stanford, CA, March 2019
17. Desai M, *Data Science in Health*, Women in Data Science Conference, Stanford University, March 2019
18. Desai M, *Statistical Challenges Involved in Incorporating Mobile Health Data into Clinical Trials*, Duke Industry Statistics Symposium, Durham, NC, April 2019

19. Desai M, *Design considerations when drawing inference using high dimensional data from mobile technology*. Why Causation Matters: Stanford Second Colloquium on Machine Learning and Causal Inference. Stanford, CA. April 2019
20. Desai M. *Apple Heart Study Spotlight*, Big Data in Precision Health Conference. Stanford, CA. May 2019
21. Desai M. *Statistical challenges in the processing and analysis of accelerometer data*. Joint Statistical Meetings, Denver, CO. July 2019
22. Desai M. *Strategies for leading successful collaborative Biostatistics units in academic medicine*. Joint Statistical Meetings, Denver, CO. July 2019
23. Desai M. *Data in the Wild: Design Lessons Learned from the Apple Heart Study*. DIA, Silver Spring, MD, March 2020
24. Desai M. *Pathways to Mentorship*. ENAR Conference, March 2020
25. Desai M. *Ask Me Anything with CNSL Leadership for section members!* ASA Statistical Consulting Section, June 2020
26. Desai M. *Statistical challenges in incorporating data from mobile technology into clinical trials*. Joint Statistical Meetings 2020, Aug 2020
27. Desai M. *Design Lessons Learned from the Apple Heart Study*. Duke Industry Statistics Symposium. Virtual. April 2021.
28. Desai M. Panel discussion: *Challenging collaborations and lessons learned*. Joint Statistical Meetings 2021. Virtual. Aug 2021
29. Desai M. Panel discussion: *Data Safety Monitoring Board (DSMB) Service 101*. Translational Science Conference 2022, Chicago. April 2022
30. Desai M. Speaker. *The importance of engaging multidisciplinary data scientists in clinical and translational research*. Translational Science Conference 2023, Washington D.C. April 2023
31. Desai M. Speaker. *The Clinical and Translational Science Award's (BERD) Program as a Resource Multiplier*. Translational Science Conference 2023, Washington D.C. April 2023
32. Desai M. Speaker. *The important distinction between translational research and translational science*. Translational Science Conference 2023, Washington D.C. April 2023
33. Desai M. Panel discussion: *Mentorship of collaborative biostatistics faculty*. ACTStat Conference 2023, Toronto Canada. August 2023.

OTHER UNIVERSITY/INSTITUTION BASED INVITED TALKS (*indicates talk given outside of the institution)

1. *Desai M, Emond MJ. *Mixture models for genetic changes in cancer cells*, Boston, MA, Boston University 2000
2. *Desai M, Emond MJ. *Mixture models for genetic changes in cancer cells*, New York, NY, Columbia University 2000
3. *Desai M, Emond MJ, *Mixture models for genetic changes in cancer cells*, New York, NY, Memorial Sloan-Kettering Cancer Center 2001
4. *Desai M, Emond MJ, *Mixture models for genetic changes in cancer cells*, University Park, PA, Pennsylvania State University 2001
5. Desai M, Emond MJ, *Mixture models for genetic changes in cancer cells*, New York, NY, Columbia University Seminar in Genetic Epidemiology 2002
6. Desai M, *Overview of Statistical Approaches for Analyzing Microarray Data*, New York, NY, Columbia University Microarray Working Group 2002

7. Desai M, Emond MJ, *Mixture Models for Genetic Changes in Cancer Cells*, New York, NY, Columbia University Statistical Methods in Genetic Epidemiology 2002
8. Desai M, *An Introduction to Microarray Data Analysis*, New York, NY, Guest Lecture for Principles of Genetics for Biostatisticians 2003
9. *Desai M, *Assessing Interaction Effects on Emotional Status in Breast Cancer Screening*, New York, NY, Methods and Measurement Seminar, Long Island University 2003
10. Desai M, *An Introduction to Microarray Data Analysis*, New York, NY, Guest Lecture for Colloquium on Patient-Oriented Research, Columbia University 2004
11. Desai M, *An Introduction to Microarray Data Analysis*, New York, NY, Guest Lecture for Colloquium on Patient-Oriented Research, Columbia University 2005
12. Desai M, *An Introduction to Microarray Data Analysis*, New York, NY, Guest Lecture for Colloquium on Patient-Oriented Research, Columbia University 2006
13. Desai M, *An Introduction to Microarray Data Analysis*, New York, NY, Guest Lecture for Principles of Genetics for Biostatisticians, April 2007
14. *Desai M, *The Role of Biostatistics in Public Health*, Cherry Hill, NJ, Guest Speaker for Cherry Hill Rotary Club 2008
15. Desai M, *An Introduction to Missing Data and Multiple Imputation*, Department of Medicine, Division of Nephrology, Stanford University 2010
16. Desai M, *An Introduction to Missing Data and Imputation Methods*, Quantitative Sciences Unit Research Methods Seminar, Department of Medicine, Stanford University 2011
17. Desai M, Cullen M, Kubo M, *Modeling the Hazard of Injury as a Function of Experience among Hourly Aluminum Manufacturing Workers*, Quantitative Sciences Unit Research Methods Seminar, Department of Medicine, Stanford University 2011
18. Desai M, *Missing Data in Clinical Trials*, Guest Lecture for Health Research & Policy Design and Conduct of Clinical Trials (HRP 251), Stanford University, 2011-2019
19. *Desai M, *Modeling the Association Between Experience and Injury Risk*, Alcoa Research Symposium 2011
20. Desai M, *The Handling of Missing Data in Molecular Epidemiology Studies*, Epidemiology Research Seminar (HRP 236), Department of Health Research and Policy, Stanford University 2011
21. Desai M, *Multiple Imputation in Practice*, BMIR Colloquium, Department of Medicine, Stanford University, September 2014
22. Desai M, *Multiple Imputation in Practice*, Biostatistics Workshop, Department of Health Research & Policy, Stanford University, November 2014
23. *Desai M, *Multiple Imputation in Practice*, Biostatistics Colloquium, Department of Epidemiology and Biostatistics, University of California at San Francisco, December 2014
24. Desai M, *Missing Data in Oncology Studies*, Cancer Education Seminar, Stanford University, September 2015
25. Desai M, *Topics in Multiple Imputation*, BMI Talk Series, Stanford University, October 2015
26. Desai M, *Multiple Imputation for Accelerometer Studies*, Mobilize Center, Stanford University, November 2015
27. Desai M, *Modeling of Shedding for Transmission of Polio Virus*, Polio Study Designs Presentation, Stanford University, November 2015
28. Desai M, *Handling Missing Data in Clinical Trials of Immunology*, Allergy Center, Stanford University February 2016
29. *Desai M, *Challenges in Applying Multiple Imputation in Oncology Studies*, Columbia University April 2016

30. *Desai M, *Novel Application of Multiple Imputation in Three Scenarios*, Albert Einstein College of Medicine, April 2016
31. *Desai M, *Novel Application of Multiple Imputation in Three Scenarios*, University of Pennsylvania, July 2016
32. *Desai M, *The Handling of Missing Data Induced by Time-Varying Covariates in Comparative Effectiveness Studies*, PCORI Webinar, July 2016
33. Desai M, *Work/Life Balance*, BMI seminar, Stanford University, October 2016
34. Desai M, *Incorporating Data from Mobile Health Devices into Clinical Trials: Modern Technology, Classical Ideas*, CVI symposium, Stanford University, October 2016
35. Desai M, *Topics in Missing Data*, BMI Talk Series, Stanford University, January 2017
36. Desai, M, *Topics in Trial Design*, IntroSem, Stanford University, February 2017
37. *Desai M, *Multiple Imputation in Practice*, Columbia University, April 2017
38. Desai, M, *How to engage a data scientist*, Spectrum Scholar Seminar, Stanford University, July 2017
39. Desai M, *How to engage a data scientist*, Clinical Informatics Summer Intro Series, Stanford University, September 2017
40. Desai M, *How to engage a data scientist*, Echo Laboratory, Stanford University, October 2017
41. Desai M, *Data Science vs Statistics*, Biomedical Informatics Journal Club, Stanford University, July 2018
42. Desai M, *Partnering data scientists with clinical and basic scientists*, Research Career Accelerator Program (ReCAP), Stanford University, December 2018
43. Desai M, *Partnering data scientists with clinical and basic scientists*, Child Neurology Retreat, Stanford University, September 2019
44. *Desai M, *Calibrating missing data when generalizing clinical trial findings to real world target populations*, Sanofi, November 2019
45. Desai M, *Strategies for Engaging in Team Science*. Leading Team Science Teams Workshop, Stanford University, March 2020
46. Desai M, *Clinical Trials in a COVID Pandemic: Shared Infrastructure for Continuous Learning*. Stanford BMIR Research Colloquium, April 2020.
47. Desai M, *Characteristics of SARS-CoV-2 and COVID-19 Patients at Stanford*. Stanford Grand Rounds, May 2020.
48. Desai M, *Adaptive clinical trials – an innovative and nimble strategy for identifying effective therapies for patients with COVID-19*. Stanford Medicine Webinar, May 2020
49. *Desai M, *The importance of data integrity in COVID-19 clinical trials*. Women in Data Science @ Stanford University podcast, July 2020
50. Desai M, *Collaborative study supports California's reopening efforts with rigorous testing and community surveillance*. Stanford Medicine Webinar, July 2020.
51. Desai M, *COVID-19 Outpatient Pragmatic Platform Study*. Stanford Grand rounds, September 2020.
52. *Desai M, *Keynote Address: Designing trials in a pandemic*. San Francisco Bay Area Chapter of ASA keynote speaker invitation. December 2020.
53. *Desai M, *Clinical trials and tribulations in a global pandemic*. University of Pittsburg, April 2021
54. *Desai M, *Clinical trials and tribulations in a global pandemic*. Columbia University, April 2021
55. Desai M, *Biostatistics in Cancer Trials*. Stanford Frontiers in Cancer Clinical Translation series. April 2021

56. Desai M, Moderator of panel discussion on “Picture a Scientist”. QSU Research Methods Seminar, September 2021
57. Desai M., Guest speaker, Med-ID, Stanford University. January 2022
58. *Desai M., Organizer and Modereator, *Statistical Consulting Section (ASA) Picture a Scientist panel discussion*, July 2022.
59. Desai M, Teaching. *Gear-Up Workshop: Data Science in Practice*. Stanford University. October, 2022
60. Desai M. *Data Science in Practice*. Guest Speaker. Fall University IT Town Hall. Stanford University. October, 2022
61. Desai M, Teaching. *SURGE-C: Performance II-Data management & analysis*. Stanford University. November, 2022
62. *Desai M., Guest Speaker. *Data Science in Practice*. The Math/Stats Colloquium, San Jose State University, March 2023.
63. Desai M., Guest Speaker. *CTSA’s BERD as a Resource Multiplier*, Translatioonal Science Conference. April 2023
64. Desai M., KL12 Guest Speaker. *Statistical Analysis in Basic and Clinical Science*, Stanford University.
65. Desai M. Speaker. *Driving efficiencies in clinical trial design*. Stanford University. September 2023
66. *Desai M. Guest Speaker. *The integration of real-world data sources into translational research*. National Institues of Health. September 2023
67. Desai M. Guest Speaker. *An introduction to the SDRC Core: The Clinical Core*. Stanford University. October 2023