UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY CURRICULUM VITAE

Xueya Cai, PhD

Department of Biostatistics and Computational Biology University of Rochester School of Medicine and Dentistry 601 Elmwood Avenue, Saunders Research Building 4208

Rochester, NY, 14642 Phone: 585-275-2162 Fax: 585-273-1031

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CURRENT POSITIONS

Research Associate Professor

University of Rochester School of Medicine & Dentistry, Rochester, NY

Editor in Chief. Health Services and Outcome Research Methodology

NIH Study Section Member: Health Services: Quality and Effectiveness (HSQE)

EDUCATION

Ph.D. Biostatistics, SUNY Buffalo, 2008 M.A. Biostatistics, SUNY Buffalo, 2006

B. Medicine Maternal and Child Health, Shanghai Medical University, China, 1997

FACULTY APPOINTMENTS

2015 – Present	Research Associate Professor (primary). Department of Biostatistics and Computational Biology, University of Rochester, Rochester NY
2018 – 2019	Research Associate Professor (secondary). Department of Ophthalmology. Rochester NY
2015 – 2018	Statistician (IPA). Canandaigua VA Medical Center. Canandaigua, NY
2011 – 2015	Research Assistant Professor. Department of Biostatistics and Computational
	Biology, University of Rochester. Rochester NY
2009 – 2011	Research Assistant Professor. Department of Internal Medicine, University of Iowa Carver College of Medicine. Iowa City IA
2008 – 2009	Assistant Professor. Division of Biostatistics, Indiana University School of Medicine. Indianapolis IN
2005 – 2008	Research Assistant. Division of Infectious Disease, Buffalo VA Medical Center. Buffalo NY
2004 - 2005	Research Assistant. Department of Biostatistics, SUNY Buffalo. Buffalo NY
2003 – 2004	Research Assistant. Periodontal Disease Research Center (PDRC), SUNY at Buffalo. Buffalo NY
1997 – 2001	Assistant Professor. Department of Biostatistics, Shanghai Medical University. Shanghai China

PROFESSIONAL NON-ACADEMIC EMPLOYMENT HISTORY

1999 – 2001 Biostatistician (Part-time). Shanghai Sunline Data Scientific Processing Company, China

HONORS AND AWARDS

2020	Journal of American Geriatrics Society Most Cited Award for the study "Li Y, Temkin-Greener H, Gao S, Cai X. COVID-19 infections and deaths among
	Connecticut nursing home residents: facility correlates. Journal of the
	American Geriatrics Society 2020, 68(9): 1899-1906
2018	Research to Prevent Blindness/American Academy of Ophthalmology Award
	for IRIS Registry Research
2011	Delta Omega Honorary Society in Public Health
2006	Award for Outstanding PhD's student. Department of Biostatistics, SUNY
	Buffalo
2005	Sidney Adelman Award for Outstanding Master's Student. Department of
	Biostatistics. SUNY Buffalo
2004	Prize for the Outstanding Student Poster. Bayesian Approach and Power
	Analysis for Temporal Gene Expression Data for the Treatment of IFN in
	Relapsing Multiple Sclerosis Patients. Buffalo Center for Biomedical
	Computing Retreat/Symposium

ACADEMIC & PROFESSIONAL ORGANIZATIONS

2005 – present	The American Statistical Association (national)
2019	The American Academy of Ophthalmology (national)
2012 - present	Member of the International Chinese Statistical Association (International)
2010	Member of the Academy Health (national)
2008	Member of the International Biometric Society (International)
2004	Member of the American Public Health Association (national)

COMMITTEES & OTHER ADMINISTRATIVE SERVICES

2022 – present	Surgical Health Outcomes & Research Enterprise (SHORE) Data Core Leader.
	URMC Department of Surgery (local)
2020 - 2022	Wilmot Community Outreach & Engagement (COE) Committee Data Core
	Leader. Wilmot Cancer Institute (local)
2016 - 2022	Medical Faculty Council, URMC (local)
2016 - 2019	Prospective Graduate Student Open House Committee member, URMC
	Department of Biostatistics and Computational Biology (local)
2008	Vice-president of Central Indiana Chapter (local)

EDUCATIONAL CONTRIBUTIONS:

2009

Teaching:	
2014 – present	BST467: Applied Statistics in the Biomedical Sciences (3 credits/year).
•	Graduate students in bioscience and biomedical engineering, UR.
2017	BME221: Biomedical Computation & Statistics (4 credits). Guest lecture for
	biomedical engineering undergraduate students, URMC.
2012 – 2014	PM463: Introduction to Mathematical Statistics (3 credits/year). PhD students
	in the Department of Public Health Sciences, URMC.
2012	PM464: Introduction of Linear Regression Analysis (3 credit). PhD students in
	the Department of Public Health Sciences, URMC.
2010	173:161: Introduction to Patient-Oriented Research: Hands-on Data Analysis
	(3 credits) Graduate students in biomedical areas, medical fellows, and junior

Faculty members. University of Iowa School of Medicine

BIOS651: Biostatistics I 2009 (3 credits). Graduate students in biomedical

areas, medical fellows, and junior Faculty members. Indiana University Purdue University Indianapolis (IUPUI).

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1997 – 2001	Principles of Biostatistics (4 credits/year) Medical students. Shanghai Fudan
	THE STATE OF THE S

University Medical Center, China

2000 Clinical Trial Design and Statistical Analysis (1 credit). Medical students.

Shanghai Fudan University Medical Center, China

Mentoring:

Graduate Students

2020 - present	Zijing Cheng, Ph.D. student Health Services Research. Research mentoring
2019 – 2021	Wenhao Guo, Ph.D. student Health Services Research. Research mentoring
2017 – 2020	Yunjiao Mao, Ph.D. Health Services Research. Research mentoring
2016 – 2020	Yeunkyung Kim, Ph.D. Health Services Research. Thesis mentoring
2016 – 2020	Meiling Ying, Ph.D. Health Services Research. Thesis mentoring
2013 – 2019	Xi Cen, Ph.D. Health Services Research. Research mentoring
2013 – 2016	Micah Segelman, Ph.D. Health Services Research. Research mentoring
2011 – 2017	Lauren Campbell, Ph.D. Health Services Research. Research mentoring
2010 – 2018	Zhiqiu Ye, Ph.D. Health Services Research. Research mentoring
2009 – 2014	Jun Yin, Ph.D. Health Services Research. Research mentoring
2011 – 2013	Joyce A Smith, Ph.D. Nursing. PhD thesis advisory committee

Medical Candidate and Resident

2021 – 2022 Melissa Holloway, URMC MD candidate. Research mentoring

Postdoctoral Fellow

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2022 – present	Anthony Loria, General Surgery Residency Program. SHORE mentee (SMD)
2022 – present	Chelsea Marin, General Surgery Residency Program. SHORE mentee (SMD)
2022 – present	Alexa Melucci, General Surgery Residency Program. SHORE mentee (SMD)
2022 – 2023	Patrick Donohue, Department of Medicine, Pulmonary Disease and Critical
	Care (SMD). Research mentoring
2021 – 2022	Evelyn Arana, Department of Surgery (SMD). Research mentoring
2021 – 2023	Margaret Connolly, Department of Medicine, Pulmonary Disease and Critical
	Care (SMD). Research mentoring
2020 – 2021	Abbas Farrukh, Department of Medicine, Pulmonary Diseases and Critical
	Care (SMD). Research mentoring
2019 – 2021	Lauren Karbach, Department of Orthopaedics (SMD). Research mentoring
Junior Faculty	
2022 – present	Karen Pineda-Solis. Assistant Professor – Department of Surgery (SMD). SHORE mentee
2020 - present	Katherine Rieth, Assistant Professor – Department of Otolaryngology-Head &
'	Neck Surgery (SMD). Research mentoring
2020 -present	Francisco Cartujano Barrera. Assistant Professor – Department of Public
•	Health Sciences (SMD). Research mentoring
2016 - 2020	Caroline Thirukumaran. Assistant Professor – Department of Orthopaedics,
	Center for Musculoskeletal Research (SMD). Research mentoring
2012 – 2016	Mona Mittal. Assistant Professor – Department of Public Health Sciences
	(SMD). NIH Career Development (K) Award mentoring
2010 – 2011	Helena Laroche. Assistant Professor – Department of Internal Medicine,
	University of Iowa School of Medicine. Research mentoring
2010 – 2011	Matthew Howren. Ph.D. Psychology - Department of Internal Medicine,
	University of Iowa School of Medicine. Research mentoring
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EXTERNAL ADVISORY / HEALTH COUNCILS & RESEARCH REVIEW COMMITTEES

2022-2023 Adhoc reviewer, Health Services: Quality and Effectiveness (HSQE) Study

Section, Health Care Delivery and Methodologies Integrated Review Group,

National Institute of Health. (national)

EDITORIAL ASSIGNMENTS IN PROFESSIONAL JOURNALS

Editorial Assignments

2021 - present Editor in Chief. Health Services and Outcome Research Methodology

(international)

2019 - present Statistics Reviewer. Circulation (international)

2017 – 2020 Associate Editor. Health Services and Outcome Research Methodology

(international)

Ad hoc reviews for:

Health Services and Outcome Research Methodology, Annals of Applied Statistics, PLoS ONE Journal of Applied Statistics, Communication in statistics – Simulation and Computation, Medical Care, International Journal of Biostatistics, International Journal for Quality in Health Care, Journal of General Internal Medicine, Journal of Thoracic and Cardiovascular Surgery, Nurse Aging, Clinical Experimental Immunology

GRANTS & CONTRACTS:

As Principal Investigator / Co-Principal Investigator

NIH/NIMH (1RF1MH117528-01) PI: Yue Li / Xueya Cai 07/01/2018 – 8/22/2023

Suicide Death Among Older Adults Receiving Residential Long-Term Care Role: Multiple PI Total Cost: \$1,626,390 13% FTE

American Academy of Opthamology PI: Xueya Cai 10/01/2018 – 02/29/2020

Research to Prevent Blindness/American Academy of Ophthalmology Award for IRIS Registry

Research

Role: Principal Investigator Total Cost: \$20,000 5% FTE

Sinyoo Information Technology (Shanghai) Co., LTD

PI: Xueya Cai 10/1/2015 – 9/30/2016

Surgical Outcomes for Cholangiocarcinoma

Role: Principal Investigator Total Cost: \$20,000 10% FTE

Other Roles

NIH/RFA-AG-20-037 PI: Yue Li 9/1/2020 – 8/31/2023

Impact of state HCBS generosity on dementia outcomes and disparities
Role: Co-Investigator 14% FTE

5R42MD010318-03 PI: Cupertino, Ana Paula 7/1/2021 – 03/30/2023 Latinos Kick Buts: Mobile Engagement and Cessation Support for Latino Smokers Phase II

Role: Co-Investigator 5% FTE

5R01CA212189-06 PI: Cupertino, Ana Paula 7/1/2021 – 12/31/2022

e-Decidete: Mobile Cessation Support for Latino Smokers

Role: Co-Investigator 5% FTE

1U01AI152011-01 PI: Lisa Beck 04/01/2022 – 3/31/2024

Role: Co-Investigator

Biomarker Identification, Viral Susceptibility and Management in S. Aureus Colonized AD

Patients.

Role: Co-Investigator 10% FTE

5R01NS105479-02 PI: Michael Benetar 09/01/2019 – 08/31/2023

Pre-symptomatic Familiar ALS (PRE-FALS) Study – Prelude to a Treatment Trial Role: Co-Investigator 15% FTE

Surgical Health Outcome Research Enterprise (SHORE)

PI: Paula Cupertino 11/1/2022-present

Role: Lead statistician 25% FTE

Medicine Quality Institute PI: Irena P. Boyce 7/1/2021 – present Role: Statistician 10% FTE

1R01HS026893-01 PI: Helena Temkin-Greener 07/01/2019 – 04/30/2023

Patient Safety Culture in Assisted Living: Association with Outcomes

Role: Co-Investigator 5% FTE

Wilmot Cancer Institute PI: Paula Cupertino 6/1/2020 – 3/1/2021

Role: Statistician 15% FTE

NIH (1 R01 MD012422-01) PI: Caroline Thirukumaran 09/20/2017 – 04/30/2021 Impact of Bundled Payment Reforms on Racial and Socioeconomic Disparities in Hip and Knee

Replacement Surgeries

Role: Co-Investigator 15% FTE

SMA Foundation PI: Rabi Tawil 07/01/2012 – 12/31/2020

Pediatric Neuromuscular Clinical Research Network for SMA Clinical Trials Role: Co-Investigator 12% FTE

AHRQ (1R01 HS024923-01) PI: Yue Li 09/30/2016 – 06/30/2020

Impact of the State Policies on Nursing Home Patient Safety Culture

Role: Co-Investigator 25% FTE

Department of Ophthalmology PI: Kyrstal Huxlin 01/01/18 – 12/31/2019

Population Health of Ophthalmology

Role: Co-Investigator 10% FTE

NIH (5 R01 AG052451-02) PI: Shubing Cai 08/15/16 – 05/31/19

Disparities in Quality of Care for Obese Nursing Home Residents

Role: Co-Investigator 2% FTE

Department of Orthopedics PI: James Sanders 10/01/2016 – 6/30/2019

Growth of the Spine Children

Role: Co-Investigator 10% FTE

ACTTION 9-account Funds (FDA) PI: Robert Dworkin 07/01/2015- 06/31/2018
Analgesic, Anesthetic, and Addiction Clinical Trial Translations, Innovations, Opportunities, and

Networks (ACTTION) Public-Private Partnership

Role: Co-Investigator 25% FTE

Veterans Affairs PI: Tobie Olsan 07/01/15 – 6/30/18 Factors Associated with Institutional Use by Veterans in Home-Based Primary Care

Role: Co-Investigator 15% FTE

PCORI PI: Temkin-Greener 03/01/2013 – 04/30/2017

Improving Palliative and End-of-Life Care in Nursing Homes

Role: Co-Investigator 15% FTE

Surgical Department PI: Flemming 07/01/2016 – 06/30/2017

Long-term Outcomes and Cost of Robotic Abdominal and Thoracic Surgery Role: Co-Investigator 4% FTE

NIH (5R01 HL122424-03) PI: Steve Georas 9/26/2014 – 07/31/2018

Epithelial Barrier Dysfunction and Mucosal Inflammation in Asthma

Role: Co-Investigator 5% FTE

Pfizer PI: John Markman 10/1/2015 – 3/31/2018

Simplified Pain Evaluation and Communication Tool utilizing the Electronic Record (SPECTER)

Role: Co-Investigator 10% FTE

NIH 5 R01 MD007662-03 PI: Yue Li 07/01/13 – 1/31/17

Impacts of Nursing Home Competition & State Policies on Disparities in Quality Role: Co-Investigator 15% FTE

SHORE PI: Katia Noyes 01/01/13 – 8/31/2016

Surgical Health Outcome Research

Role: Co-Investigator 10% FTE

NIH 5R01CA132950-05 PI: Debbie Ossip 09/01/09-07/31/15 Community-Partnered Tobacco Control in Underserved Dominican Republic Communities

Role: Co-Investigator 5% FTE

Health Resources and Services Administration (HRSA)

PI: Tobie Olsan 1/1/2012 – 12/31/2015

The Meliora Project: Advancing Quality in Long Term Care

Role: Consultant 5% FTE

NIH K01 MH080660-03, PI: Mittal 10/01/2011 – 4/30/2014

HIV Prevention among African American Women Who use Substances Role: Co-Investigator 5% FTE

National Pace Association PI: Temkin-Greener 07/01/2012 – 6/30/2014

PACE Data Analysis Center Project

Role: Co-Investigator 10% FTE

1R01AG033202, PI: Li 01/01/2012 – 6/30/2013

Physician Referral & Mental-Disorder Related Disparities in CABG Quality Role: Co-Investigator 20% FTE

5R01AG032264. PI: Li 01/01/2012 – 8/31/2013

State Nursing Home Technical Assistance Programs: Variation & Impact on Quality

Role: Co-investigator 20% FTE

5 R21 HL102582-02 PI: Robert Block 06/01/2010 – 05/31/2012

The Effects of Fish Oil and Aspirin on Cardiovascular Risk in Type 2 Diabetes Role: Biostatistician 5% FTE

NIH/NINDS R01 NS52619, PI: McDemott 10/01/2011 – 11/30/2012

Coordination and Statistics for CoQ₁₀ in Huntington's Disease (2CARE)
Role: Co-Investigator
15% FTE

5R01HL085347 PI: Cram 07/01/2009 – 06/30/2011

Cardiac Care in Specialty and General Hospitals

Role: Co-investigator 30% FTE

NIH K23HL093354-01 PI: Laroche 07/01/08 - 06/30/11 Family and Community-Focused Approaches to Improving Diet and Preventing Obesity

Role: Co-Investigator 10% FTE

AHRQ HHSA2902006000131 PI: Simonaitis 09/28/2007 – 09/30/2009 Improving Quality through Health IT: Testing the Feasibility and Assessing the Impact of Using

Existing Health IT Infrastructure for Better Care Delivery

Role: Co-investigator 5% FTE

NIH/NIMH R24 MH080824 PI: Callahan 04/24/2008 – 03/31/2013

Indianapolis Interventions and Practice Research Infrastructure Program Role: Co-investigator 15% FTE

US Dept. of Defense W81XWH-08-2-0040, PI: Krebs 07/01/2008 – 12/31/2009

Post-Traumatic Stress Disorder and Pain Comorbidity in Veterans

Role: Co-investigator 10% FTE

5R37AA006460 PI: Edenberg 09/01/2007 – 08/31/2009

Structure \$ Expression of Mammal ALC on Dehydrogenase Genes

Role: Co-investigator 15% FTE

AHRQ 290-04-0015 PI: Overhage 09/30/2004 – 09/29/2009

An Evolving Statewide Indiana Information Infrastructure

Role: Co-investigator 10% FTE

R01 MH068009 PI: Nurnberger 03/01/2005 – 02/28/2010

Adolescents at High Risk for Familiar Bipolar Disorder

Role: Co-investigator 15% FTE

NIH /NIA 1R01AG029884 PI: Boustani 09/01/2007 – 08/30/2010

Alzheimer Screening in Primary Care: PRISM-PC Study

Role: Co-investigator 15% FTE

NIH/NIGMS subproject of 5P20GM67650-02, PI: Liang 09/01/2004 – 08/31/2005 Bayesian Meta-Analysis of Heterogeneous Genomic Data through Hybrid Systems.

Role: PhD student researcher 50% FTE

SUBMITTED / OTHER RESEARCH PROJECTS

NIH R01 PI: Yue Li

Nursing home climate resilience and impact of state policies

Role: Co-Investigator 20% FTE

NIH R21 PI: Anthony Loria/Fergal Fleming

Novel research methodologies to study the surgical outcomes of incarcerated individuals

Role: Co-Investigator 10% FTE

NIH PI: Patricia M Rivera / Paula Cupertino

Submitted June 2023

TiMeToAcT Mobile Intervention

Role: Co-Investigator 15% FTE

AHRQ R01 PI: Yue Li submitted June 2022

Evaluation of the impact of new federal price transparency requirements for acute-care hospitals

Role: Co-Investigator 25% FTE

Pfizer PI: Anna Debenedetto Awarded 7/1/2022 Identify Serum Biomarkers and S. Aureus Related Drivers of Atopic Dermatitis Severity

Role: Co-Investigator 10% FTE

AHRQ T32 PI: Yue Li submitted October 2022

Health Services Research and Policy PhD Training Program

Role: Mentor

American Cancer Society PI: Patricia Rivera submitted July 2022

TiMeToAct: Text Messaging to Advance Lung Cancer Screening

Role: Co-Investigator FTE: 15%

NIH PI: Yue Li submitted October 2022

Family Care to Nursing Home Residents and State Essential Caregiver Programs During the

COVID-19 Pandemic: Impact on Dementia Care, Outcomes, and Disparities

Role: Co-Investigator

American Cancer Society PI: Patricia Rivera submitted July 2022

Text Messaging To Advance Lung Cancer Screening

Role: Co-Investigator

Clinical Translational Science Institute PI: Martin Zand submitted March 2022

Simulation of Ventilator Allocation Under Different Protocols and Levels of Scarcity

Role: Co-Investigator

NIH PI: Yue Li submitted February 2022

Impact of State and City Labor Market Policies on Racial/Ethnic Disparities in Nursing Home

Staffing and COVID-19 and non-COVID-19 Outcomes

Role: Co-Investigator

NIH PI: Helena Temkin Greener submitted June 2021 Patient Safety and COVID-19 outcomes in Assisted Living Communities: Provider and State Pandemic Responsiveness

Role: Co-Investigator

NIH PI: Paula Cupertino submitted October 2020 Smoking among Puerto Ricans: Cultural and Biopsychosocial Implication on Smoking Cessation

Role: Co-Investigator (re-submission)

NIH PI: Paula Cupertino submitted October 2020

JUNTOS: A Smoking Cessation and Physical Activity Mobile Intervention in Mexico

Role: Co-Investigator

NIH PI: Michael Sohn submitted June 2020 Antipsychotics for Neuropsychiatric Symptoms with Chorea in Huntington's Disease (ANSWER-HD)

Role: Statistician

NIH PI: Caroline Thirukumaran submitted: March 2020 Impact of Bundle Payment Reforms in Institutional Post-Acute Care Patients among Patients having Alzheimer's Disease-Related Dementia.

Role: Co-Investigator

NIH PI: Jinjiao Wang / Xueya Cai submitted: February 2020

Suicide Prediction in Home Healthcare Services.

Role: Multiple Principal Investigator

Renal Research Institute, LLC PI: Fahad Saeed submitted: December 2019 Development and Testing of a Hospital Readmission Risk Calculator for Older Adults Receiving

Maintenance Dialysis: A Pilot Study

Role: Co-Investigator

NIH PI: Larry Glance submitted: October 2019

Impact of Medicare Shared Savings Program on Disparities in Cardiovascular Care

Role: Co-Investigator

NIH PI: Jinjiao Wang submitted: October 2019 Impact of Medicare Home Healthcare Value Based Purchasing on Home Health Use, Quality and Outcomes in Vulnerable Patients.

Role: Co-Investigator

NIH PI: Xueya Cai / Rajeev Ramchandran submitted: June 2018

Vision Health Insights from Analysis of NHATS Linked to Administrative Databases

Role: Multiple Principal Investigator

NIH PI: Zhengqiang Yao submitted January 2019

Target Therapy for Metastatic Breast Cancer

Role: Biostatistics Consutant

American sleep medicine foundation PI: Michael Yurcheshen

Multi-Center, Non-Inferiority Trial Comparing Telemedicine vs. In-Person Management for

Obstructive Sleep Apnea in Rural Populations

Role: Co-Investigator

The Donaghue Foundation PI: Yue Li

Nursing Home safety of care for residents with SMI & substance abuse

Role: Co-Investigator

NIH PI: Steve Georas

Expression of autotaxin (ATX) and lysophosphatidic acid (LPA) in human asthma

Role: Co-Investigator

Scoliosis Research Society PI: James Sanders

Growth of the Spine Children – a Longitudinal, Prospective Investigation.

Role: Co-Investigator

UR CTSI PI: Xueya Cai

Causal Inference in Racial Disparity Studies with Binary Outcomes

Role: Principal Investigator

Intuitive Surgical, Inc. PI: Fergal Fleming

Long-Term Outcomes and Cost of Robotic Abdominal and Thoracic Surgery

Role: Co-Investigator

NIH PI: Shubing Cai

Disparity in Quality of Care for Obese Nursing Home Residents

Role: Co-Investigator

NIH PI: Geoffrey Williams

Tobacco Dependence Treatment Program for Patients at High Risk for Lung Cancer

Role: Co-Investigator

AHRQ PI: Yue Li

Impact of state policies on nursing home patient safety culture

Role: Co-Investigator

NIH PI: Helena Temkin-Greener

Palliative Care Consultations and Health Outcomes: Community Dwelling, Dementia, Nursing

Home & Minority Patients Role: Co-Investigator

NIH PI: Yue Li

Nursing home organization & work environment: impact on disparity in quality

Role: Co-Investigator

NIH PI: Yue Li

State Medicaid nursing home P4P programs & racial/ethnic disparity in quality

Role: Co-Investigator

CDC PI: Geoffrey C. Willams.

Tobacco Dependence Treatment Program for Patients at High Risk for Lung Cancer.

Role: Co-Investigator

National Institute of Justice (NIJ) PI: Paul Caccamise (LifeSpan)
Detection of Elder Financial Exploration in the Aging Services Network

Role: Co-Investigator

PCORI PI: Christopher Ritchlin

Biosychosocial Intervention for Chronic Diseases

Role: Co-Investigator

NIH PI: Katia Noyes

Does Quality of Care in Colorectal Cancer Mediate Disparity in Outcomes: Developing Quality

Indicator

Role: Co-Investigator

NIH R01 PI: Steve N. Georas

Epithelial Barrier Dysfunction and Mucosal Inflammation in Asthma

Role: Co-Investigator

(Awarded but only support a biostatistics programmer due to budget cut)

NIH R01 PI: Yue Li

Medicare mental health parity: impact on service use and spending for schizophrenia

Role: Co-Investigator

NIH R01 PI: Irena Persis-Katz

Clinical management of chronic heart failure in long-term care setting

Role: Co-investigator

NIH R01 PI: Irena Persis-Katz

Improving outcomes for nursing home residence with chronic heart failure

Role: Co-investigator

Orthpaedic Research & Education Foundation (OREF) PI: James O. Sanders Determination of the best fusion levels in surgical adolescent idiopathic scoliosis

Role: Statistician

NIH R21 PI: Ann Dozier

Infant feeding decision aid Role: Co-Investigator

NIH R01 PI: Ann Dozier

Community partnership for breastfeeding promotion and support

Role: Co-Investigator

CTSI UL1 PI: Xueya Cai

Interim monitoring of longitudinal outcomes in clinical trials

PRESENTATIONS:

*denote trainee / supervisee Local, Regional, & State Conferences

April 2019 Cai X. T-text, ANOVA, and Mixed Model. Department of Ophthalmology

Resident Workshop. (SMD)

June 2018 Cai X. Grad Stem for All. Nazareth College Minority STEM Camp.

October 2015 Cai X. Biostatistics in Neurosurgery Clinical Research. Neurosurgery

workshop. (SMD)

June 2015 Cai X. Biostatistics and Evaluation of Evidence. Department of Surgery

Statistics Seminar. (SMD)

October 2012 Cai X. Biostatistics – Statistics in Biomedical Studies. Graduate Student

Society (GSS) Professional Development Seminar Series. (SMD)

National & International Conferences

November 2023 Cheng Z*, Cupertino P, Cai X, Gao S, Li Y. Young Hispanics are more likely

to use electronic cigarettes than smoke traditional cigarettes compared to non-Hispanics: Evidence from New York State. American Public Health

Association Annual Conference. Atlanta, GA. USA

June 2023 Cheng Z*, Mutoniwase E, Cai X, Li Y. Medicaid support for Home- and

Community- Based Services (HCBS) and quality of state long-term services

and supports (LTSS). Academy Health. Seattle, WA. USA.

May 2023 Pineda-Solis K*, Jacobs M, Byrne M, Martens J, Cai X. Evaluating the

Obesity Paradox in Living Donor Liver Transplantation. The International

Congress of the International Liver Transplantation Society (ILTS).

Rotterdam, Netherlands

May 2023 Yoshida T, Gao S, Fahey C, Beck L, Cai X, De Benedetto AD. Identification

of candidate serum biomarkers for severe atopic dermatitis by proteomic approach. International Societies for Investigative Dermatology Meeting.

Tokyo, Japan

May 2023 Yoshida T, Gao S, Fahey C, Beck LA, Cai X, Benedett AD. Olink-based

proteomics identifies new serum biomarkers associated with severe atopic dermatitis. International Societies for Investigative Dermatology Meeting.

Tokyo, Japan

May 2023 Connolly M*, Donohue P, **Cai X**, Khurana S, Georas S. Clinical Outcome

Correlation of Race Specific versus Race Neutral PFT Z-Scores. American

Thoracic Society Annual Meeting. Washington DC, USA

May 2023 Donohue PA*, Connolly M, Cai X, Khurana S, Georas S. Differentiating

Inducible Laryngeal Obstruction from Asthma Using Oscillometry. American

Thoracic Society Annual Meeting. Washington DC, USA

May 2023 Khurana S. Kosov G. Norton K. Cai X. Gao S. Miller B. Georas S. Immune Response to COVID-19 Vaccine in Patients on Asthma Biologics. American Thoracic Society Annual Meeting. Washington DC, USA April 2023 Connolly M*, Croft D, Ramirez-Palacios P, Cai X, Rivera PM, Wilson KM, Mcintosh S, Ossip DJ, Cupertino AP, Cartujano-Barrera F. Are Black and Latino Adolescents Being Asked if They Use Electronic Cigarettes and Advised Not to Use Them? Results from a Community-Based Survey. European Conference on Tobacco or Health (ECToH), Madrid, Spain. January 2023 Arana-Chicas E*, Cartujano-Barrera F, Cai X, Gao S, Cox LS. Cupertino AP. Biopsychosocial correlates of smoking menthol cigarettes and cessation among Latino smokers. American Association for Cancer Research (AACR) annual conference. Louisiana, USAJanuary 2023 September 2022 Arana-Chicas E*, Cartujano-Barrera F, Cai X, Cox LS, Cupertino AP. Biopsychosocial predictors of smoking menthol cigarettes among Latino smoker. American Association for Cancer Research (AACR) annual conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved. Pennsylvania, USA Thirukumaran CP, Kim Y, Cai X, Ricciardi B, Li Y, Fiscella K, Mesfin A, June 2021 Glance LG. Association of the Comprehensive Care for Joint Replacement Model with disparities in the utilization of hip and knee replacements. AcademyHealth Annual Research Meeting. Online/Virtual (podium) Wang, J., Ying, M., Cai, X., Caprio, T. V., Temkin-Greener, H., & Li, Y. November 2020 Association Between Living Arrangement and Acute Care Use in Older Medicare Home Health Patients. Paper Presentation. The Gerontological Society of America's 72nd Annual Scientific Meeting. Online/Remote June 2020 Li Y, Cai X, Gao S, Conwell Y, Simning A, Temkin-Greener H. Attempted Suicide and Self-Inflicted Injury Among US Nursing Home Residents: Resident and Facility Correlates. AcademyHealth Annual Research Meeting. Boston, MA. (podium) June 2020 Ying M, Thirukumaran CP, Cai X, Li Y. Mandatory Medicare Bundled Payment Program for Lower Extremity Joint Replacement Is Associated with More Efficient Post-Acute Care but Maintained Disparities between Medicare-Only and Dual Eligible Patients. AcademyHealth Annual Research Meeting. Boston, MA. (podium) June 2019 Ying M.*, Cai X, Li Y. Skilled Nursing Facilities Participating in Medicare Bundled Payments for Care Improvement Show Improved Performance on "Nursing Home Compare" Measures over Time. Academy Health Annual Research Meeting. Washington DC, USA. June 2015 Campbell L*, Cai X, Gao S, Li Y. Racial/Ethnic Disparities in Nursing Home Quality of Life Deficiencies, 2001-2011. AcademyHealth Annual Research Meeting. Minneapolis, MN. (podium) June 2013 Li Y, Cai X, Ye Z, Glance L, Harrington C, Mukamel D. Family Satisfaction with Nursing Home Care in Massachusetts. June 2013. AcademyHealth Annual Research Meeting. Baltimore, MD. (poster)

November 2010 Cai X, Cram P, Li Y. Are Nursing Home Patients with Serious Mental Illness Less Likely to Have Advance Care Plans than Other Nursing Home Patients? November 2010. APHA Annual Meeting. Denver, CO. (oral)

June 2010 Cai X, Cram P, Li Y. Medical Advance Care Plan Documents for Nursing Home Patients With and Without Serious Mental Illness. AcademyHealth Annual Research Meeting. Boston, MA. (poster)

June 2008 Li Y, Glance LG, **Cai X**, Mukamel DB. Mental Illness and Hospitalization for Ambulatory Care Sensitive Medical Conditions. AcademyHealth Annual Research Meeting. Washington DC, USA

November 2007 Li Y, **Cai X**, Glance LG, Mukamel DB. Urinary Incontinence in Community-Dwelling Older Women: Does Socioeconomic Status Affect Help Seeking and Treatment? APHA Annual Meeting. Washington DC, USA. (Award winner: Susan B. Anthony Aetna Award for Excellence in Research on Older Women and Public Health).

June 2007 Li Y, **Cai X**, Glance LG, Mukamel DB. Gender Differences in Healthcare-Seeking for Urinary Incontinence and the Impact of Socioeconomic Status: A Study of the Medicare Managed Care Population. AcademyHealth Annual Research Meeting. Florida, USA

September 2005 Liang Y, **Cai X**, Kelemen A. Bayesian State Space Models for Inferring Gene Interaction Networks. Case Studies in Bayesian Statistics Workshop. Carnegie Mellon University. Pennsylvania, USA

November 2004 Cai X., Li Y., Gu J.. Effect of Simvastatin Dose Escalation: Results from a Randomized Clinical Trial for Coronary Heart Disease (CHD) Patients with Hyperlipidemia in Mainland China. APHA Annual Meeting. Washington, DC. (poster)

Invited Presentations: Local, Regional, & State

April 2022 Cai X, Gao S, Li Y. Super Learner Prediction and Variable Importance Analyses of Nursing Home Resident Suicide Ideation. UP-STAT, ASA Rochester Chapter. Rochester NY
 April 2016 Cai X. Application of Two Stage Residual Inclusion (2SRI) Model in Testing the Impact of Length of Stay on Short-term Readmission Rate. UP-STAT, ASA Rochester Chapter. Rochester NY (session chair)
 April 2015 Cai X. Interim Monitoring of Longitudinal Outcomes in Clinical Trials. Department of Biostatistics, SUNY Buffalo

March 2010 Cai X, Cram P, Vaughan-Sarrazin MS. Are Black Patients More likely to Receive Total Knee Arthroplasty in Hospitals With Higher Risk-Adjusted

Complication Rates? University of Iowa Department of Medicine Research Day. Iowa, IA.

May 2004

Cai X, Liang Y. Bayesian Approach and Power Analysis for Temporal Gene Expression Data for the Treatment of IFN in Relapsing Multiple Sclerosis Patients. Buffalo Center for Biomedical Computing Retreat/Symposium. Buffalo, NY

Invited Presentations: National & International

March 2021 Saeed F, **Cai X**, Gao S, Temkin-Greener H, Ladwig S, Li Y. Development and Testing of a Hospital Readmission Risk Calculator for Older Adults Receiving Maintenance Dialysis: A Pilot Study. Renal Research Institute 2021 Winter Board Meeting (Remote, speaker)

November 2020 Beck L, Moran MK, Yoshida T, **Cai X**. Biomarker Identification, Viral Susceptibility & Management in S. Aureus Colonized AD Patients. Atopic Dermatitis Research Network (ADRN) Network Steering Committee Virtual Meeting (speaker)

October 2019 Cai X. Predictive Model for Risk of Refractive Error Progression in Children and Young Adults. American Academy of Ophthalmology (AAO) Annual Conference. San Francisco, CA

June 2017 Cai X, McDermott M, Gewandter J, He H, Dworkin R. Multiple Imputation for Missing Data in Analgesic Clinical Trials using Pattern Mixture Model. International Chinese Statistical Association (ICSA) Applied Statistics Symposium. Chicago, IL

December 2016 **Cai X**. Biostatistics and Evaluation of Evidence. Bellary Tract Surgery Grand Rounds, Zhongshan Hospital of Fudan University, Shanghai, China

July 2014 Cai X. Observational Data Analyses for Risk Adjustment. Department of Biostatistics, Fudan University Medical Center. Shanghai, China

June 2012 Cai X. An Application of Instrumental Variable Analysis in Testing the Impact of Length of Stay on Short-term Readmission Rate. Second Joint Biostatistics Symposium. Beijing, China

June 2010 Cai X, Cram P, Vaughan-Sarrazin MS. Are Black Patients More likely to Receive Total Knee Arthroplasty in Hospitals With Higher Risk-Adjusted Complication Rates? University of Iowa Department of Medicine Research Day. AcademyHealth Annual Research Meeting, Boston, MA

August 2009 Cai X, Wilding GE, Hutson A, Li Y. Testing the Equality of Conditional Correlations Across Numeric Variable(s) with Heteroscedastic Data. The Joint Statistical Meeting, Washington DC

March 2008 Cai X, Wilding GE, Hutson A. Approaches for Estimating and Testing Conditional Correlations. International Biometric Society, Eastern North American Region annual meeting. Arlington, VA

March 2007 Cai X, Wilding GE, Hutson A. A Generalized Linear Model Based Approach

for Estimating and Testing Equality of Conditional Correlations. International Biometric Society, Eastern North American Region annual meeting. Atlanta,

GΑ

August 2005 Cai X, Liang Y. Hierarchical Bayesian Analysis for Temporal Microarray Gene

Expression Data. Joint Statistical Meeting. Minneapolis, MN

November 2004 Cai X, Li Y, Gu J. Effect of Simvastatin Dose Escalation: Results from a

Randomized Clinical Trial for Coronary Heart Disease (CHD) Patients with Hyperlipidemia in Mainland China. American Public Health Association

Annual Meeting. Washington, DC

PUBLICATIONS

*denote trainee / supervisee

Peer-Reviewed Methodological Journal Articles

- 1. Shi Z, Yu J, **Cai X**. The application of CMH method in categorical data in multi-center clinical trials. Journal of health statistics in China. 1999.16(3): 179-80.
- Cai X, Jin P. The method and its limitation to assess agreement using Intraclass Correlation Coefficient (ICC). Journal of preventive medicine in China. 1999. 33(3): 175-76.
- 3. **Cai X**, Jin P. The disadvantage of effective rate analysis in patients with different illness status. Journal of health statistics in China. 2000.17(4): 250-51.
- 4. **Cai X**, Jin P. Estimating the confidence interval of median using Bootstrap sampling. Journal of health statistics in China. 2002.19(3): 185-86.
- 5. Liang Y, Tayo B, **Cai X**, Kelemen A. Differential and trajectory methods for time course gene expression data. Bioinformatics. 2005. 21: 3009-3016. PMCID: PMC2574001
- Li Y, Dick AW, Glance LG, Cai X, Mukamel DB. Misspecification issues in risk adjustment and construction of outcome-based quality indicators. Health services & outcomes research methodology. 2007. 7: 39-56.
- 7. Wilding GE, **Cai X** (Corresponding Author), Hutson A, Yu Z. A Linear Model Based Test for the Heterogeneity of Conditional Correlations. Journal of Applied Statistics, 2011, 38(10): 2355-2366.
- 8. **Cai X**, Wilding GE, Hutson A, Java J. Estimation and Testing of the Conditional Correlations Across Continuous Variable(s) for Heteroscedastic Data. Advances and Applications in Mathematical Sciences. 2012, 10(9): 191-206.
- 9. Wang D, **Cai X**, Tian, L. Interval Estimation for the Gini Index of Shifted Exponential Distribution under Type-II Double Censoring. Health Services and Outcomes Research Methodology. 2015 (15) 69-81.
- 10. **Cai X**, Gewandter JS, He H, Tuck DC, Dworkin RH, McDermott MP. Estimands and Missing Data in Clinical Trials of Chronic Pain Treatments: Advances in Design and Analysis. Pain. 2020 Oct;161(10):2308-2320. PMID: 32453131

- 11. Wang D, **Cai X**. Smooth ROC curve estimation via Bernstein polynomials. PLoS ONE. 2022 16(5): e0251959. https://doi.org/10.1371/journal.pone.0251959. PMID: 34032801
- 12. Cai X, Gao S, Obudzinski S, Sanders J. Dynamic Panel Estimation in Prediction of Child Growth. DOI: 10.19080/BBOAJ.2022.11.555803

Peer-Reviewed Collaboration Journal Articles

- 13. Fernaays MM, Lesse AJ, Sethi S, **Cai X**, Murphy TF. Differential genome contents of nontypeable Haemophilus influenzae strains from adults with chronic obstructive pulmonary disease. Infection and immunity. 2006. 74:3366-3374. PMCID: PMC1479259
- Fernaays MM, Lesse AJ, Cai X, and Murphy TF. Characterization of igaB, a Second Immunoglobulin A1 Protease Gene in Nontypeable Haemophilus influenzae. Infection and immunity. 2006. 74:5860-5870. PMCID: PMC1594874
- 15. Murphy TF, Brauer AL, Sethi S, Kilian M, **Cai X**, Lesse AJ. Haemophilus haemolyticus: a human respiratory tract commensal to be distinguished from Haemophilus influenzae. Journal of infectious diseases. 2007. 195:81-89. PMID: 17152011
- 16. Sethi S, Sethi R, Eschberger K, Lobbins P, **Cai X**, Grant JB, Murphy TF. Airway Bacterial Concentrations and Exacerbations of Chronic Obstructive Pulmonary Disease. American journal of respiratory and critical care medicine. 2007. 176:356-361. PMID: 17478618
- 17. Li Y, Glance LG, **Cai X**, Mukamel DB. Are Patients with Coexisting Mental Disorders More Likely to Receive CABG Surgery from Low-Quality Cardiac Surgeons? The Experience in New York State. Medical care. 2007. 45:587-593. PMID: 17571006
- Li Y, Cai X, Glance LG, Mukamel DB. Gender Differences in Healthcare-Seeking Behavior for Urinary Incontinence and the Impact of Socioeconomic Status: A Study of the Medicare Managed Care Population. Medical Care. 2007. 45: 1116-1122. PMID: 18049354
- 19. Sethi S, Wrona C, Eschberger K, Lobbins P, **Cai X**, and Murphy TF. Inflammatory Profile of New Bacterial Strain Exacerbations of Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine. 2008. 177: 491-497. PMID: 18079493
- 20. Murphy TF, Brauer AL, Eschberger K, Lobbins P, Grove L, **Cai X**, Sethi S. Pseudomonas aeruginosa in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine. 2008. 177: 853-860. PMID: 18202344
- Li Y, Glance LG, Cai X, Mukamel DB. Adverse Hospital Events for Mentally-Ill Patients Undergoing Coronary Artery Bypass Surgery. Health Services Research. 2008. 43(6): 2239-2252. PMCID: PMC2613995
- 22. Li Y, **Cai X**, Glance LG, Spector WD, Mukamel DB. National Release of the Nursing Home Quality Report Cards: Implications of Statistical Methodology for Risk Adjustment. Health Services Research. 2009. 44(1):79-102. PMCID: PMC2669625
- 23. Li Y, Glance LG, **Cai X**, Mukamel DB. Mental Illness and Hospitalization for Ambulatory Care Sensitive Medical Conditions. Medical Care. 2008. 12:1249-1256. PMID: 19300315
- 24. Blekher T, Weaver MR, **Cai X**, Hui S, Marshall J, JacksonGJ, Wojcieszek F, Yee RD, Foroud TM. Test-retest reliability of saccadic measures in subjects at-risk for Huntington

- disease. Investigative Ophthalmology & Visual Science. 2009. 50(12): 5707-5711. PMID: 19553607
- Novotny LA, Adams LD, Kang DR, Wiet GJ, Cai X, Sethi S, MurphyTF, and Bakaletz LO. Epitope mapping immunodominant regions of the PilA protein of nontypeable Haemophilus influenzae (NTHI) to facilitate the design of two novel chimeric vaccine candidates. Vaccine. 2009. 28 (1): 279-289. PMCID: PMC2787809
- Cram P, Bayman L, Popescu I, Vaughan-Sarrazin MS, Cai X, Rosenthal GE.
 Uncompensated care provided by for-profit, not-for-profit, and government owned hospitals.
 BMC Health Services Research. 2010. 10(90). PMCID: PMC2907758

 http://www.biomedcentral.com/content/pdf/1472-6963-10-90.pdf
- 27. Li Y, **Cai X**, Mukamel DB, Glance LG. The Volume-Outcome Relationship in Nursing Home Care: An Examination of Functional Decline among Long-Term Care Residents. Medical Care. 2010. 48(1): 52-57. PMID: 19890222
- 28. Ohl M, Harris A, Nurudtinova D, **Cai X**, Drohobyczer D, Overton ET. Do Brief Screening Questions or Provider Perception Accurately Identify Persons with Low Health Literacy in the HIV Primary Care Setting? AIDS Patient Care and STDs. 2010. 24(10): 623-629. PMID: 20858056
- 29. Vander Weg MW, Cunningham CL, **Cai X**. Tobacco use and exposure in rural areas: Finding from the behavioral risk factor surveillance system addictive behaviors. Addictive Behaviors. 2011, 36: 231-236. PMID: 21146318
- 30. **Cai X**, Cram P, Li Y. Origination of Medical Advance Directives Among Nursing Home Residents With and Without Serious Mental Illness. Psychiatric Services, 2011. 62:1-6. PMCID: PMC3785002
- 31. Li Y, Cram P, **Cai X**. Are patients with serious mental illness more likely to be admitted to nursing homes with more deficiencies in care? Medical Care. 2011. 49(4):397-405. PMCID: PMC3784995
- 32. Boustani MA, Justiss MD, Frame A, Austrom MG, Perkins AJ, **Cai X**, Sachs GA, Torke AM, Monahan P, Hendrie HC. Caregiver and noncaregiver attitudes toward dementia screening. J Am Geriatr Soc. 2011 Apr;59(4):681-6. PMCID: PMC3125691
- 33. Cram P, Lu X, Kaboli PJ, Vaughan-Sarrazin MS, **Cai X**, Wolf B, Li Y. Clinical characteristics and outcomes of Medicare patients undergoing total hip arthroplasty, 1991-2008. JAMA, 2011, 305(15): 1560-1567. PMCID: PMC3108186
- 34. Li Y, **Cai X**, Du H, Glance LG, Lyness JM, Cram P, Mukamel DB. Mentally ill Medicare patients less likely than others to receive certain types of surgery. Health Aff (Millwood). 2011 Jul;30(7):1307-15. doi: 10.1377/hlthaff.2010.1084. PMCID: PMC3784991
- 35. Li Y, Yin J, **Cai X**, Temkin-Greener H, Mukamel DB. Association of race and site of care with pressure ulcers in high-risk nursing home residents. JAMA. 2011. 306(2):179-186. PMCID: PMC4108174
- 36. Howren MB, Vander Weg MW, **Cai X**. Associations of Health-Related Quality of Life with Healthcare Utilization Status in Veterans. Applied Research in Quality of Life, 2012 March; 7(1): 83-92

- 37. Cram P, Lu X, Callaghan J, Vaughan-Sarrazin MS, **Cai X**, Li Y. Long term trends in hip arthroplasty utilization and volume. Journal of Arthroplasty. 2012 Feb;27(2):278-285.e2. PMCID: PMC3193900
- 38. Li Y, **Cai X**, Yin J, Glance LG, Mukamel DB. Is higher volume of post-acute care patients associated with a lower rehospitalization rate in skill nursing facilities? Medical Care Research and Review. Med Care Res Rev. 2012 Feb;69(1):103-18. PMCID: PMC3785004
- 39. Cai X, Cram P, Vaughan-Sarrazin MS. Are African American Patients More Likely to Receive a Total Knee Arthroplasty in a Low-quality Hospital? Clinical Orthopaedics and Related Research. 2012 Apr; 470(4): 1185-93. PMCID: PMC3293986
- Nurnberger J, McInnis M, Reich W, Kastelic E, Fisher C, Erpe M, Gershon ES, Berrettini W, Laite G, Schweitzer R, Rhoadarmer K, Coleman V, Cai X, Azzouz F, Liu H, Monahan P, Wilcox HC. A high-risk study of bipolar disorder: Childhood clinical phenotypes as precursors of major mood disorders. Archives of General Psychiatry. 2011 Oct;68(10):1012-20. PMCID: PMC4552246
- 41. Miller BJ, **Cai X**, Cram P. Mortality Rates are Similar after Hip Fractures for Rural and Urban Patients. Clin Orthop Relat Res. 2012 Jun;470(6):1763-70. PMCID: PMC3348311
- 42. Vander Weg MW, **Cai X**. Variability in Veterans' Alcohol Use by Place of Residence. The American Journal of Addictions. 2012 Jan;21(1):31-7. PMID: 22211344
- 43. Vander Weg MW, Howren MB, **Cai X**. Use of Routine Clinical Preventive Services among Daily Smokers, Non-daily Smokers, Former Smokers and Never smokers. Nicotine & Tobacco Research. 2012 Feb;14(2):123-30. PMID:22180595
- 44. Cram P, **Cai X**, Lu X, Vaughan-Sarrazin MS, Miller BJ. Total knee arthroplasty outcomes in top-ranked and non-top-ranked orthopedic hospitals: an analysis of Medicare administrative data. Mayo Clin Proc. 2012 Apr;87(4):341-8. PMCID: PMC3538414
- 45. Kamath AS, Vaughan Sarrazin M, Vander Weg MW, **Cai X**, Cullen J, Katz DA. Hospital Costs Associated with Smoking in Veterans Undergoing General Surgery. J Am Coll Surg. 2012 Jun;214(6):901-8. PMID: 22502993
- 46. Li Y, **Cai X**, Mukamel DB, Cram P. Impact of length of stay after coronary bypass surgery on short-term readmission rate: An instrumental variable analysis. Medical Care 2013 Jan; 51(1):45-51. PMCID: PMC3518633
- 47. Li Y, Glance LG, Lyness JM, Cram P, **Cai X**, Mukamel DB. Mental illness, access to hospitals with invasive cardiac services, and receipt of cardiac procedures in Medicare AMI patients. Health Serv Res. 2013 Jun;48(3):1076-95. PMCID: PMC3651773
- 48. **Cai X**, Campbell N, Khan B, Callahan C, Boustani M. Long-term anticholinergic use and the aging brain. Alzheimer's & Dementia. 2013 Jul;9(4):377-85. PMCID: PMC3674201
- 49. **Cai X**, Li Y. Are AMI Patients with Comorbid Mental Illness More Likely to be Admitted to Hospitals with Lower Quality of AMI Care? PLoS ONE 2013, 8(4): e60258. doi:10.1371/journal.pone.0060258. PMCID: PMC3614995
- 50. Cui J, Zhu M, **Cai X** (co-first author), Liu T, Zhao N. The Efficacy of Bevacizumab Compared with Other Targeted Drugs for Patients with Advanced NSCLC: A Meta-Analysis from 30

- Randomized Controlled Clinical Trials. PLoS One. 2013 Apr 16;8(4):e62038. PMCID: PMC3628504
- 51. Block RC, Abdolahi A, Smith B, Meednu N, Thevenet-Morrison K, **Cai X**, Cui H, Mousa S, Brenna JH, Georas S. Effects of low-dose aspirin and fish oil on platelet function and NFkappaB in adults with diabetes mellitus. Prostaglandins Leukot Essent Fatty Acids. 2013 Jul;89(1):9-18. PMCID: PMC3683095
- 52. Laroche HH, Wallace RB, Snetselaar L, Hillis SL, **Cai X**, Steffen LM. Weight Gain among Men and Women Who Have a Child Enter Their Home. J Acad Nutr Diet. 2013. Nov;113(11):1504-10. PMCID: PMC3809034
- 53. Li Y, **Cai X**, Ye Z, Glance LG, Harrington C, Mukamel DB. Satisfaction with Massachusetts nursing home care was generally high during 2005-09, with some variability across facilities. Health affairs (Project Hope).2013;32(8):1416-25. PMCID: PMC3784993
- 54. Korfmacher KS, Suter BJ, **Cai X**, Brownson SA, Dozier AM. Environmental Risks and Children's Health: What can PRAMS Tell Us? Maternal and child health journal. 2013; Matern Child Health J. 2014 Jul;18(5):1155-68. PMCID: PMC3926906
- 55. Schweizer ML; Perencevich EN; Eber MR; Cai X; Shardell MD; Braykov N; Laxminarayan R. Optimizing antimicrobial prescribing: Are clinicians following national trends in methicillin-resistant staphylococcus aureus (MRSA) infections rather than local data when treating MRSA wound infections. Antimicrobial Resistance and Infection Control. 2013 Oct 15; 2(1):28. PMCID: PMC3853220
- 56. Abdolahi A,* Geogas SN, Brenna JT, **Cai X**, Thevenet-Morrison K, Phipps RP, Lawrence P, Mousa S, Block RC. The effects of aspirin and fish oil consumption on lysophosphatidylcholines and lysophosphatidic acids and their correlates with platelet aggregation in adults with diabetes mellitus. Prostaglandins, Leukotrienes & Essential Fatty Acids. 2014 Feb-Mar;90(2-3):61-8. PMCID: PMC3939709
- 57. Li Y, Cai X. Racial and Ethnic Disparities in Social Engagement Among US Nursing Home Residents. Med Care. 2014 Apr;52(4):314-21. doi: 10.1097/MLR.0000000000000088. PMCID: PMC4031618
- 58. Laroche HH,* Ford C, Hansen K Formerly, **Cai X**, Just DR, Hanks AS, Wansink B. Concession stand makeovers: a pilot study of offering healthy foods at high school concession stands. J Public Health (Oxf). 2015 Mar;37(1):116-24. PMCID: PMC4402377
- 59. Temkin-Greener H, Ladwig S, Caprio T, Norton S, Quill T, Olsan T, **Cai X**, Mukamel DB. Developing palliative care practice guidelines and standards for nursing home based palliative care teams: A Delphi study. Journal of the American Medical Directors Association. J Am Med Dir Assoc. 2015 Jan;16(1):86.e1-7. PMID: 25481748
- 60. Ossip DJ, Quiñones Z, Diaz S, Thevenet-Morrison K, Fisher S, Holderness H, Cai X, McIntosh S., Dozier A, Chin N, Weber E, Sanchez JJ, Bautista A, Almonte H. Tobacco cessation in economically disadvantaged Dominican Republic communities: who are the exusers? J Smok Cessat. 2016 Dec;11(4):239-249. PMCID: PMC5181849
- 61. **Cai X**, Temkin-Greener H. Nursing Home Admissions Among Medicaid HCBS Enrollees: Evidence of Racial/Ethnic Disparities or Differences? Med Care. 2015 Jul;53(7):566-73. PMID: 26067880

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