

CURRICULUM VITAE

Simin Liu, MD, ScD

**Professor of Epidemiology
Brown University School of Public Health
Professor of Medicine and Surgery
The Alpert School of Medicine
Director, Center for Global Cardiometabolic Health (CGCH)**

**Brown University
Providence, RI 02912**

Overview

- Research Grants: > \$20 million as principal investigator (PI)
- Scholarly manuscripts published: >400 peer-reviewed original reports plus >100 proceedings, editorials, chapters, and reviews + one book; H-index=145
<https://scholar.google.com/citations?user=suBaIE4AAAAJ&hl=en>
- Teaching: Eight courses as developer and primary instructor/director at Harvard, University of California, Los Angeles (UCLA), and Brown University; Trainees/Mentees supervised directly: >100
- Service and Outreach: > 80 committees and events, and as an associate editor for the American Journal of Clinical Nutrition (AJCN)
- Awards and Honors: several adjuncts, visiting, and honorary professorships at leading Institutions and Universities around the world and >30 honors, including
 - 1997 Individual National Research Service Award (F31 and F32), NIH
 - 2000 Physician Scientist Development Award (K08), NIH
 - 2009 Excellence in Mentoring, UCLA
 - 2012 Elected member, American Society of Clinical Investigation (ASCI, The ASCI is an honorific society of physician-scientists who primarily conduct basic laboratory and/or translational work to advance clinical medicine), and American Epidemiological Society (AES, The AES is an honorific society of epidemiologists and public health scientists known as "diseases detective")
 - 2016 American Heart Association (AHA) Mentoring Award
 - 2017, 2019 Dean's Award for Excellence in Mentoring, Brown University
 - 2017 American Society of Nutrition (ASN) Research Innovation Award
 - 2019-2020 Fulbright Distinguished Chair in Global Health (Every year, 40 eminent scholars are selected from all disciplines of academic sciences to conduct teaching and research activities internationally on behalf of the United States.
<https://www.cies.org/program/fulbright-distinguished-chair-awards>
- Invited talks given: ~200 invited lectures worldwide

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PERSONAL INFORMATION

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EDUCATION AND TRAINING

Education

1991 MD Clinical Medicine, Jinan University School of Medicine
1993 MS Epidemiology, State University of New York at Albany
1998 MPH Quantitative Methods, Harvard University
1998 ScD Epidemiology and Nutrition with a minor in Biostatistics, Harvard University
2014 MA Master of Arts Ad eundem (honorary), Brown University,

Postdoctoral and Professional Training

1990-1991 Clinical Intern, Overseas' Chinese Hospital and first affiliate of Jinan University Medical School, Guangdong, China
1991-1993 Research Associate, Bureaus of Communicable Disease Control and Cancer Epidemiology, New York State Department of Health, Albany, NY (Advisors: Dr. Dale Morse and Dr. Phil Nasca)
1993-1995 Epidemic Intelligence Service (EIS) Fellow in Epidemiology and Preventive Medicine, Division of Nutrition and Epidemiology Program Office, Centers for Disease Control and Prevention (CDC), Atlanta, GA (Supervisors: Drs. Mary Serdula and Tim Byers)
1996-1998 Teaching Fellow, Departments of Nutrition and Epidemiology, Harvard School of Public Health, Boston, MA (Advisor: Dr. Walter Willett)
1998 Visiting Scholar/Fellowship, Karolinska Institute, Stockholm, Sweden

Other Training Courses

1998-2001 HT090 Cardiovascular Pathophysiology, GN701 Principles of Genetics, HT350 Pharmacology and Clinical Therapeutics, Harvard Medical School, Boston, MA
2000-Present Continuing Medical Education (C.M.E) Credits in Cardiovascular Medicine, Diabetes, Endocrinology, and Metabolism
2010 Training for Medical Institutional Review Board (IRB) Member, UCLA
2014 Transformative Conversations: How to Discuss What Matters Most to Us. Center for learning & Professional Development, Brown University
2014 Faculty Leadership Development, Office of the Vice President for Academic Development, Diversity and Inclusion, Brown University
2016 Training for the Tenure, Promotion, and Appointment Committee (TPAC) Members, Brown University
2016 American Heart Association (AHA) Research Leaders Academy, San Antonio, TX

POSITION/APPOINTMENTS

Academic Appointments

- 1998-2000 Instructor in Medicine, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA
- 2001-2004 Assistant Professor of Medicine, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA
Assistant Professor of Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, MA
- 2005 Associate Professor of Medicine, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School; Associate Professor of Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, MA
- 2005-2008 Adjunct Professor of Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, MA
- 2005-2013 Professor of Epidemiology and Medicine (Tenured in 2005) and Director, Program on Genomics and Nutrition, Fielding School of Public Health; Department of Medicine (joint appointment), David Geffen School of Medicine, UCLA, CA
- 2006-2008 Co-Director, UCLA-CA State of Health Service Training Program for Public Health Laboratory Directors; Faculty Director, MPH/MD Program, Fielding School of Public Health, UCLA, CA
- 2009-2013 Founding Director, UCLA Burroughs-Wellcome Fund Inter-School Training Program in Metabolic Diseases (BWF-IT-MD); Founding Director, UCLA Center for Metabolic Disease Prevention, CA
- 2011-2015 Professor, Departments of Medicine and Obstetrics and Gynecology, UCLA David Geffen School of Medicine, CA
- 2006-2009 Visiting Professor, Sun Yat-Sen University, Guangzhou, China
- 2006 Visiting Professor, Institute of Nutritional Science, Chinese Academy of Sciences, Shanghai, China
- 2012 Visiting/Guest Professor, Centro de Pesquisa Clínica e Epidemiológica, University De Sao Paulo (USP), Sao Paulo, Brazil
- 2013-Present Professor (with tenure), Department of Epidemiology, Brown University, Professor of Medicine (Endocrinology), Alpert Medical School and Rhode Island Hospital, Brown University, Providence, RI
Director, Center for Global Cardiometabolic Health (CGCH), Brown University, Providence RI
- 2014 Guest Professor, Zhejiang University Medical School, Hangzhou, China
- 2014-Present Member, Center for Latin American and Caribbean Studies (CLACS), Brown University
- 2015-Present Director, Brown Brazil Initiative in Global Health (BIG-Health), Brown University
Co-director, China Health Initiative, China Initiative, Watson Institute of International and Public Affairs, Brown University, RI
Core Advisor, Master of Public Health (MPH) Program, Brown University
- 2016 Guest Professor (Honorary), School of Public Health, Harbin Medical University, Harbin, China
- 2016-Present Adjunct Clinical Professor, Prince of Wales Hospital and Chinese University of Hong Kong (CUHK), Hong Kong, China
- 2016-Present Adjunct Professor, Department of Epidemiology, Harvard T.H. CHAN School of Public Health, Boston, MA

- 2016-Present Member, Brown China Center for Environmental Health, Brown University, Providence, RI
- 2018-Present Professor of Surgery, Department of Surgery, The Warren Alpert Medical School, Brown University, Providence RI
- 2019 Adjunct Professor (honorary) of Epidemiology and Global Health, Peking University, Beijing, China

Hospital Appointments

- 1998-2005 Associate Epidemiologist, Brigham and Women's Hospital, Boston, MA
- 2000-2005 Director of Nutrition Research, Division of Preventive Medicine, Brigham and Women's Hospital, Boston, MA
- 2005 Member, Executive Committee, Division of Preventive Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA
- 2005-2008 Full Member, Dana-Farber/Harvard Cancer Center, Boston, MA
- 2005-2012 Associate Director, Center for Human Nutrition, Departments of Medicine and Ob/Gyn, UCLA Medical Center; Full Member, Jonsson Comprehensive Cancer Center and UCLA Clinical Research Center/CTSI, CA
- 2013 Member, Department of Medicine (Endocrinology), Rhode Island Hospital, Providence, RI
- Affiliated Clinical Investigator, Department of Medicine (Cardiology), Veterans Administration (VA) Health System of Rhode Island, RI
- Member, Division of Endocrinology, Rhode Island Hospital, Lifespan Health System, RI
- 2015-2018 Visiting Professor of Medicine (Endocrinology), The First Affiliated Hospital and Sun Yat-Sen University, Guangzhou, China
- 2015-Present Adjunct Professor of Medicine and Chief Consultant (Endocrinology), Guangdong General Hospital, Guangdong Academy of Medical Sciences, Guangzhou, China
- 2016-Present Adjunct Clinical Professor (Honorary), Hong Kong Institute of Diabetes and Obesity, Prince of Wales Hospital, Shatin, Hong Kong
- 2017-Present Adjunct Professor, Institute of Environmental Sciences and Occupational Health, Chinese CDC, Beijing, China
- 2018-Present Faculty Member, Cardiovascular Research Institute (CVI) and Division of Cardiothoracic Surgery, Lifespan Health System, Providence, RI
- 2018-2021 Adjunct Professor (Honorary), National Center for Cardiovascular Diseases, Fuwai Hospital and Chinese Academy of Medical Sciences, Beijing, China
- 2020-2021 Anandi L. Sharma Visiting Professor of Cardiovascular Medicine at Mount Sinai Heart, The Cardiovascular Institute of Mount Sinai Hospital and the Icahn School of Medicine of Mount Sinai, New York, NY

MAJOR COMMITTEE ASSIGNMENTS

Federal Agencies

- 1995-2004 Member, Expert Review Panel, Breast Cancer Prevention Program Projects, National Center for Chronic Disease Prevention and Health Promotion (NCCDPH), CDC, Atlanta, GA; Member, The Special Emphasis Panel, RFA-ES-02-009 Centers for Population Health and Health Disparities; The Special Emphasis Panel, ZRG1 SNEM-05; Diabetes, Endocrinology, and Metabolic Diseases B Sub-Committee; Epidemiology of Diabetes, Obesity, Nutrition, and Kidney Diseases Study Section (KNOD), NIH, Bethesda, MD
- 2004-2008 Permanent member, Diabetes, Endocrinology, and Metabolic Diseases (Committee B) Study Section, National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), NIH, Bethesda, MD
- 2009-2012 Member, Scientific Advisory Board (SAB), Global Health Initiative, National Heart Lung and Blood Institute (NHLBI), NIH, Bethesda, MD
- 2010-2013 Member, Health Disparities and Equity Promotion Study Section (HDEP); Clinical and Integrative Diabetes and Obesity (CIDO); Special Emphasis Panel (SEP) Biological and Genetic Research and Clinical and Translational Related Health Disparities Research, NIH, Bethesda, MD; Member, Cardiovascular and Sleep Epidemiology Study (CASE) Section, Population Sciences and Epidemiology Integrated Review Group, NIH, Bethesda, MD
- 2013-2018 Chair, Diet, Obesity, and Weight Change in Pregnancy Special Emphasis Panel, Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD), NIH, Bethesda MD; Member, Special Emphasis Panel, Natural Experiments of the Impact of Population-targeted Health Policies to Prevent Diabetes and its Complications on the behalf of the National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP), Division of Diabetes Translation (DDT), Center of Disease Control and Prevention (CDC); Member, National Institute of Health/NIGMS Study Section Pharmacogenomics Network Program Committee, NIH; Ad Hoc Member, Integrative Nutrition and Metabolic Processes (INMP) Study Section, NIH; the Cancer, Heart, and Sleep Epidemiology Panel (CHSA) Study Section; the Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section; Ad Hoc Member, Diabetes, Endocrinology, and Metabolic Diseases (Committee B), National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), NIH, Bethesda, MD; Ad Hoc Member, Clinical and Integrative Diabetes and Obesity (CIDO) Study Section, CSR, NIH
- 2021 Member, SPECIAL EMPHASIS PANEL ZDP1 KVA (10), National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP) RFA-DP-21-004: SIP21-010 Engagement of Community Health Workers to Reduce Racial Discrimination and Improve Hypertension Management
- 2021- Permanent Member, Human Studies of Diabetes and Obesity (HSDO), NIH, Bethesda, MD

Academia/Universities

- 2001-2005 Member, Metabolic Diseases, Boston Obesity Nutrition Research Center (BONRC); Member and Chair, Doctoral Committee, Harvard School of Public Health, Boston, MA
- 2006-2009 Member, Medical Leadership College Advisory Board, UCLA, Los Angeles, CA; Member, UCLA Faculty Senate's Committee for Undergraduate Scholarships, Awards, and Prizes, Los Angeles, CA

- 2006-2012 Member and Chair, Doctoral Committee (Epidemiology), Fielding School of Public Health, UCLA, Los Angeles, CA
Member and Chair, Laboratory and Equipment Committee, Fielding School of Public Health, UCLA, Los Angeles, CA
- 2010-2011 Member, Executive Committee, UCLA Clinical and Translational Science Institute (CTSI); Member, Medical Institutional Review Board (MIRB1)
- 2011-2012 Chair, Admission Committee & Director, Graduate Program in Epidemiology, Department of Epidemiology, UCLA, Los Angeles, CA
- 2012-2013 Member, Campus wide Research Informatics Strategies Planning Committee, UCLA, Los Angeles, CA
- 2013- Member, Doctoral Admissions Committee; Doctoral Exam Committee; MPH Admission Committee, School of Public Health, Brown University, Providence, RI
- 2014- Member, Curriculum Committee, Department of Epidemiology, Brown University, Providence, RI
- 2013-2014 Member, School of Public Health Strategic Planning Committee, Brown University, Providence, RI
- 2014-2015 Chair, Committee on Cardiometabolic Health, Department of Epidemiology, Brown University, Providence, RI
- 2014-2016 Member, Public Health Senior Faculty Appointments Committee (PHFA), Brown University, Providence, RI
- 2014-2017 Member, Committee on Medical Faculty Appointment (CMFA), Warren Alpert Medical School of Brown University, Providence, RI
- 2014 Chair, Ad hoc Faculty Promotion and Search Committees, Department of Epidemiology, Brown University, Providence, RI
- 2016, 2021 External Reviewer, the John Hopkins University-University of Maryland Diabetes Research Center, MD
- 2017- Member, Scientific Advisory Board, Guangdong General Hospital and Guangdong Academy of Medical Sciences, Guangzhou, China
- 2016-2019 Member, Committee on Tenure, Promotion, Appointment (TPAC), Brown University, Providence, RI
- 2019-2021 Member, Human Resources Advisory Board, Brown University, Providence, RI
- 2021- Member, Curriculum Committee, Epidemiology, Brown University, Providence, RI

International Agencies/Non-Government Organizations

- 2000-2005 Member, Committee on Glycemic Index and Health, Food and Agriculture Organization (FAO) of the United Nations and Danone Vitapole, Bandol, France; Chair, Symposium on Carbohydrates and Glycemic Load in Diabetes Risk, 62nd Scientific Sessions of the American Diabetes Association (ADA), San Francisco, CA; Chair, Symposium on Nutrigenomics, 44th Annual Scientific Meeting of the American College of Nutrition (ACN), Nashville, TN; Board Member, Scientific Advisory Board, Whole Grain Council, Boston, MA; Co-Chair, Endocrine Council, American College of Nutrition (ACN), Nashville, TN; Member, Committee on Statistical Methods, NIH/National Cancer Institute Cohort Consortium on Breast and Prostate Cancers; Co-Chair, Chronic Disease in Developing Country, 18th International Congress of Nutrition (ICN), Durban, South Africa; Chair, Scientific Advisory Board, Whole Grains Health: A Global Summit, Minneapolis, MN; Co-Chair, Symposium on Nutrition and Chronic Disease in China, 18th International Congress of the Union of Nutrition Scientists, Durban, South Africa
- 2006-2010 Chair, Symposium on Diabetes and Cardiovascular Disease- Mechanisms and New Agents. 86th American Heart Association (AHA) Annual Scientific Sessions,

- Chicago, IL; Chair, Symposium on Metabolic Syndrome, American College of Nutrition (ACN) 47th Annual Meeting, Reno, NV; Member, Expert Committee on FAO/WHO Scientific Update on Carbohydrates in Human Nutrition, Geneva, Switzerland; Member, Scientific Advisory Board, the European Union HEALTHGRAIN Program
- Member, Scientific Steering Committee, International Heart Forum, Beijing, China; Member/Reviewer, Scientific Review Committee, Qatar Foundation, Doha, Qatar; Co-Chair, Genetic Focus Group and Member, Ancillary Study Committee, Women's Health Initiative (WHI); Member, Scientific Review Committee, Canada Foundation for Innovation
- 2009-2013 Member, Steering Committee, Genome-Wide Association Study-Treatment Responses in the WHI (GARNET-WHI), NIH
- 2010 Chair, Symposium on Sex-hormones, Exogenous Endocrine Disruptors and Diabetes Risk, 70th American Diabetes Association (ADA) scientific meeting, Orlando, FL
- 2011-2016 External Evaluator, Integrated Research on Genomics and Pathophysiology of the Metabolic Syndrome and the Diseases arising from it. META2011 translation five research funding agencies from Canada, Québec, France, Germany and Spain, Agence Nationale de la Recherche, France; Chair, Type 2 Diabetes Genetics — Genomes and Genes, 71st ADA scientific meeting, San Diego, CA; Reviewer, Research Fellowship Program, Medical Research Council (MRC), United Kingdom (UK); Member and Chair, American Heart Association's (AHA) Genomic & Translational Biology and Observational Epidemiology (GTOE) Peer Review Study Group, Dallas, TX; Member, Scientific Advisory Board for the 2nd International Symposium on Nutrition and Health, The Nutrition Society of China, Guangzhou, China; Member, WHO/EMRO – DCPN Collaboration on Non-Communicable Disease Priorities in the EMRO Region; Committee member, Frontiers in Nutrition Science Workshop, Zhejiang University and The Nutrition Society of China, Hangzhou, China; Committee member, Glycemic Index, Glycemic Load, Glycemic Response: An International Scientific Consensus Summit. Stressa, Italy.
- 2011-2017 Member, Statistics Committee, American Heart Association (AHA), Dallas, TX
- 2014-2017 Co-Chair and Chair, AHA's Genomics, Translational Biology Epidemiology & Observational Epidemiology – Clinical Science Peer Review Committee (GTOE – CL), Dallas, TX
- 2014 -2018 EPI Council Statistics Committee Liaison, Diabetes Committee of the Lifestyle and Cardiometabolic Health Council, AHA, Dallas, TX
- 2016- Member, Scientific Advisory Board, North America Chinese Society for Nutrition (NACSN)
- 2016- Member, NIH/NIH Trans-Omics for Precision Medicine (TOPMed) Working Groups: Anthropometry – Structural Variation, Adiposity, Atherosclerosis, Diabetes, and Reproductive Health, NIH
- 2016- Member, Data and Safety Monitoring Board (DSMB), Trial of Metformin among patients with pulmonary hypertension, Massachusetts General Hospital, Boston, MA
- 2017- 2019 Member, Scientific Advisory Board, the Intervention for High normal or Borderline-elevated Blood Pressure in Adults with Type 2 Diabetes (IPAD) Pilot Trial, Guangzhou, China
- 2018- Member, Data and Safety Monitoring Board (DSMB), EX9536-4388 SELECT-Trial (18-CS-IKES-8); Novo Nordisk, Denmark

- 2018-2019 Member, Scientific Advisory Committee, 36th International Symposium on Diabetes and Nutrition, Netherlands
- 2020- Co-Chair, International Carbohydrate Quality Consortium (ICQC)-Asian Pacific Chapter
- 2021- Co-Chair, 38th International Symposium on Diabetes and Nutrition (Virtual), European Diabetes and Nutrition Study Group
- 2021 Co-Chair, International Symposium on Recent Advances in Cardiovascular Science, Guangdong Academy of Medical Sciences
- 2021 Member, Asian American and Pacific Islanders' Health Workshop, NIH

PROFESSIONAL SOCIETY INVOLVEMENT

- 1994-2012 Society for Epidemiologic Research
- 1998-Present American Heart Association (AHA Councils on Epidemiology, Genomics and Precision Medicine, and Nutrition) –Elected Fellow (FAHA) in 2004
- 1998-2012 American Diabetes Association (ADA), Endocrine Society
- 2002-2012 American Society of Human Genetics
- 2003-Present American Association for the Advancement of Science (AAAS)
- 2005-Present American Society of Clinical Nutrition (ASN)
- 2010-Present Lifetime Member, Epidemic Intelligence Service Alumni (EISA), CDC Foundation
- 2010-Present Lifetime Member, Chinese American Diabetes Association (CADA)
- 2012-Present Elected Member, American Society of Clinical Investigation (ASCI)
Elected Member, American Epidemiological Society (AES)
- 2013-Present Lifetime Member, Chinese American Academy of Cardiology (CAAC)
- 2016-2019 Member, International Society for the Development of Research on Magnesium

Service Related to Professional Work (Selected):

- 1995-2000 Elected Representative, Student Coordinating Committee (SCC), Harvard School of Public Health; Elected Vice-president of the Harvard Chinese Students & Scholars Association, Boston, MA
- 2000-Present Consultant to many academic centers/Universities, government agencies, NGOs, and industries (e.g., as an external examiner or evaluator for promotion or tenure cases), including John Hopkins University, Stanford University, Fred Hutchison Cancer Center, Harvard University, Tufts University, Boston University, Vanderbilt University, University of Massachusetts, University of Alabama at Birmingham, Karolinska Institute, University of Toronto,..., CDC, NIH, WHO, Chinese Academy of Sciences, Chinese CDC, Sun Yat-sen University, Guangdong Academy of Medical Sciences, General Mills, The Linus Pauling Institute, Barilla Inc, Novo Nordisk Inc., and many others.
- 2006-2011 Advisory Board Member, the European Union HEALTHGRAIN Project; Mentor, AHA International Mentoring Program
- 2009 Director, UCLA Open Symposium on Translational Research for Metabolic Disease Prevention: From Molecules to Populations, UCTV
- 2011-2013 Co-Organizer and Co-Director, Joint annual symposium of the Genomic Analysis Training Program and the BWF-IT-MD program, CA
- 2013-Present Chief Consultant, Department of Endocrinology (Obesity and Diabetes Clinics), Guangdong General Hospital and Academy of Medical Sciences, China
- 2015-2016 Volunteer and Speaker, AHA Heart Ball, Providence, RI
- 2016 External Reviewer for the Global Alliance for the Future of Foods on the Health Impacts and Externalities of Food System, The International Panel of Experts on Sustainable Food Systems.

- 2016-Present Advisory Board Member, North America Chinese Society for Nutrition (NACSN)
2018 Reviewer, National Academy of Medicine Committee on Nutrigenomics, Washington DC
2021-Present Advisory Board Member, Washington University Center for Diabetes Translation Research (CDTR), MO.

Faculty Search Committees:

- 2002 Member, Faculty Search Committee (Bioinformatics), Division of Preventive Medicine, Harvard Medical School and Brigham and Women's Hospital, Boston, MA
2006-2007 Member, Faculty Search Committee (Biostatistics), UCLA School of Public Health, Los Angeles, CA
2006-2008 Member, Faculty Search Committee (Nutrition), UCLA School of Public Health, Los Angeles, CA
2006-2008 Member, Faculty Search Committee (Computation Biology), UCLA School of Public Health, Los Angeles, CA
2014 Chair, Faculty Search Committee (Molecular Epidemiology of Diabetes Research Track), Brown University, Providence, RI
2015 Chair, Ad Hoc Promotion and Reappointment Committee (Assistant Professor of Epidemiology), Department of Epidemiology, Brown University

EDITORIAL ACTIVITIES (SELECTED)

- 1994- Reviewer, American Journal of Epidemiology, International Journal of Epidemiology, American Journal of Public Health, Journal of American College of Nutrition, Preventive Medicine, New England Journal of Medicine (NEJM), Journal of American Medical Association (JAMA), British Medical Journal (BMJ), The Lancet, Annals of Internal Medicine (Annals), Circulation, American Journal of Clinical Nutrition (AJCN), International Journal of Obesity, Obesity Research, Diabetes, Diabetes Care, American Journal of Human Genetics (AJHG), Annals of Human Genetics, European J of Clinical Nutrition, Journal of American College of Cardiology, Bioinformatics, Metabolism, Clinical Chemistry, Public Library of Science (PLoS ONE, PLoS Genetics); and many others
2005- Editorial Board Member, International Journal of Molecular Epidemiology and Genetics, Micronutrient Information Center, Linus Pauling Institute, Cytokines, Journal of Nutrition and Metabolism, Adipocyte, International Journal of Clinical and Experimental Medicine, Nutrition Discovery, AJCN, Journal of Chronic Diseases and Translational Medicine (CDTM)
2016-2018 Associate Editor, Journal of Diabetes
2017- Associate Editor, American Journal of Clinical Nutrition (AJCN)
2021- Associate Editor, Frontiers in Cardiovascular Medicine; Precision Nutrition

AWARDS AND HONORS (SELECTED)

- 1996-1998 Institutional National Research Service Award (F31), NIH and Harvard University,
1996 Lyman and Grew Scholarship for Professional Promise in Medical and Health Sciences, Harvard University, Cambridge, MA
1997 Individual National Research Service Award (F32), NIH, Bethesda, MD
1998 Keynote Speaker, Insulin Resistance, Hyperglycemia and Risk of Major Chronic Diseases: A Dietary Perspective. The 22nd Annual Scientific Meeting of the Australian Nutrition Society, Adelaide, Australia

- 2000-2004 Physician-Scientist Development Award (K08 DK02767), National Institute of Digestive, Diabetes, and Kidney diseases (NIDDK), NIH, Bethesda, MD
- 2002 Elected Fellow of the American College of Nutrition (FACN)
- 2002 **Plenary Speaker**, NIDDK Joint New Investigators and Network of Minority Research Investigators Workshop, NIH, Bethesda, MD
- 2002 **Keynote Speaker**, Dietary Carbohydrates and Health – Evolutionary Theory, Epidemiologic Observations, and Experimental Evidence, Chinese Academy of Preventive Medicine, Beijing, China
- 2004 Oak Ridge Institute of Science and Education (ORISE) Fellow Awarded by the Division of Nutrition and Physical Activity, Centers for Disease Control and Prevention (CDC), Atlanta, GA
- 2004 External Examiner, Institute of Environmental Medicine, Karolinska Institute, Sweden
- 2004 Elected Fellow, Council on Epidemiology and Prevention, American Heart Association (FAHA), Dallas, TX
- 2005 Applied Research Award in Nutrition (one award per congress every four years), 1st Whole Grain Global Summit, Minneapolis, MN
- 2005 **Plenary Speaker**, Whole Grain and the Maintenance of Healthy Weight: Epidemiologic and Clinical Evidence. The 18th International Congress of Nutrition (ICN), Durban, South Africa
- 2005 **Plenary Speaker**, Diet Quality and Obesity. Canadian Society of Clinical Nutrition Annual Meeting, Montreal, Canada
- Meet the Expert Section (Elected Member), Society for Epidemiologic Research Annual Meeting (SER), Toronto, Ontario, Canada; Meet the Expert Section, 18th International Congress of Nutrition, Durban, South Africa
- One of the Top Papers Selected by NIH in its Annual Bibliography of Significant Advances in Dietary Supplements Research
- 2006 Elected Faculty Member, Delta Omega Public Health Honor Society
- Keynote Speaker**, Dietary Factors and Reduced Disease Risk – Epidemiological Evidence. International Food & Health Innovation Conference, Malmo, Sweden
- Plenary Speaker**, Epidemiologic Assessment of Chronic Diseases in the World and Dietary Implications. The 13th World Congress of Food Science and Technology, Nantes, France
- 2007 American Journal Clinical Nutrition (AJCN) Most Cited Original Research Articles 1998 – 2007 (first author of five original reports among the top 100 including the #1 most cited in the same 10-year period – original research paper #18); Research Featured by Prevention Magazine as one of the Top Ten Medical Breakthroughs of 2007 (original research paper #109);
- Professor in the Union (Elected by Students), UCLA Undergraduate Program;
- Keynote Speaker**, Prevention and Treatment of Lifestyle-related Diseases and Metabolic Syndrome: Diet and Exercise. 22nd International Scientific Forum, Tokyo, Japan
- 2008 **Plenary Speaker**, Dietary and Molecular Causes of Metabolic Diseases: Integrating Evolutionary Theory, Epidemiologic Observations, and Clinical Experiments for Prevention. 10th Symposium on Molecular Diabetology in Asia, Guangzhou, China
- 2009 Co-Chair, Diabetes Technology Society, Personalized Medicine for Diabetes, San Francisco, CA
- Excellence in Mentoring, Graduate Division Summer Program, UCLA, Los Angeles, CA

- 2010 External Examiner, the Faculty of Graduate Studies, the University of Guelph, Ontario, Canada
- 2010 Chair, Symposium on Sex Hormones in Type 2 Diabetes and Cardio-metabolic Risk, 70th American Diabetes Association (ADA) Scientific Sections, Orlando, FL
- 2010 **Distinguished Alumni Speaker**, 25th Anniversary of University at Albany School of Public Health, Albany, NY
- 2010 Faculty1000 Medicine Award of a "Must Read" Certificate to the paper by Ding et al. NEJM 2009 (ref #131) - Faculty1000 identifies and evaluates the most important articles published by peer-nominated leading researchers and clinicians
- 2011 Council of Canadian Academies, Top 1% Most Highly Cited Investigators Worldwide
- 2011 Marquis's Who's Who in Medicine and Healthcare
- 2012 Elected Member, American Society of Clinical Investigation (ASCI)
- 2012 Elected Member, American Epidemiological Society (AES)
- 2012 Member, NHLBI Global Health Think Tank, Bethesda, MD
- 2012 Director's Seminar, Understand Interactions for Curbing the Epidemics of Our time, Fred Hutchinson Cancer Research Center, Seattle, WA
- 2015 Plenary Speaker, The 19th Annual Scientific Conference of the Chinese Medical Society (Diabetes Chapter, CDS), Suzhou, China
- 2016 Plenary Speaker, 18th South China International Congress of Cardiology, Guangzhou, China
- 2016 Plenary Speaker, Magnesium Supplementation and Counseling on Glycemic and Genomic Outcomes Among Overweight Pregnant Women. XIV International Magnesium Symposium, Rome, Italy
- 2016 **American Heart Association Mentoring Award**, Council on Functional Genomics and Translational Biology (FGTB) The FGTB Mentoring Award exemplifies an unprecedented commitment to moving the field of science forward. The winner of this yearly award must be an accomplished scientist that goes above and beyond to mentor well-trained and well-rounded individuals with a passion for science. The award will be given to an individual who during their career has dedicated leadership and success in mentoring individuals in scientific careers.
https://professional.heart.org/professional/MembershipCouncils/ScientificCouncils/UCM_462269_Functional-Genomics-and-Translational-Biology-FGTB-Mentoring-Award.jsp
- 2017 **Keynote Speaker**, Chinese Nutrition Society Congress, Beijing, China; American Society of Nutrition (ASN) **Research Innovation Award**, at the Experimental Biology (EB) meeting, Chicago, IL;
- 2017 Dean's Award for Excellence in Mentoring in Public Health, Brown University, Providence, RI
- 2018 Keynote Speaker, 20th South China International Congress of Cardiology, Guangzhou, China
- 2018 Plenary Speaker, China Heart Congress, Beijing, China.
- 2018 **Keynote Speaker**, University of Buffalo International Week, Buffalo, NY
- 2019 **US Fulbright Distinguished Chair in Global Health**, Peking University, China
- 2019 Distinguished Lecturer in Public Health, Peking University, Beijing, China
- 2019 Program Chair, Dietary Carbohydrates and Health Outcomes: A matter of quality interactions. The 14th China Nutrition Congress and the 11th Asian Pacific Conference on Clinical Nutrition, Nanjing, China

- 2020-2021 Anandi L. Sharma Visiting Professor of Cardiovascular Medicine at Mount Sinai Heart, The Cardiovascular Institute of Mount Sinai Hospital and the Icahn School of Medicine of Mount Sinai, New York, NY
- 2022 Certificate for the Best Paper in 2021 published by the Journal Chronic Diseases and Translational Medicine: Yang A*...Liu S. Environmental heavy metals and cardiovascular diseases: Status and future direction Vol 6, Issue 4, 251-259.
- 2022 Paul Dudley White International Scholar Award for the Abstract Submitted to AHA EPI and Lifestyle Scientific Conference 2022;
Scott Grundy Award for Excellent in Metabolism Research for the Abstract submitted by Chan K*...Liu S. "Identification Of Genetic Signals For "Diabetesity" -- - Type 2 Diabetes And Obesity -- Among African American and European American Participants In Four Cohorts Of The TOPMed Consortium". AHA
- 2022 Visiting Professor CAPES/PRINT Fellowship in Longevity Program, Universidade Federal de Sao Paulo (UNIFESP), Ministry of Education, Brazil.

REPORT OF RESEARCH

Narrative:

My research is focused on identifying risk factors for and distributions of complex diseases with special emphasis on understanding how our environment, genomes, and their interactions affect outcomes in diverse populations around the world (i.e., defined by sex, ethnicities, geopolitical regions, lifespan, and evolutionary forces). Employing state-of-the art multi-platforms and methodologies that typically cut across multiple domains and disciplines (e.g., nutrition, genetics, molecular biology, pathophysiology, statistics, and epidemiology), we conduct both observational and experimental studies to aid in causal inference.

The **first** substantive area of work is in **nutrition** where since 1993 I have been investigating the roles of dietary carbohydrates in the development of health or disease outcomes (e.g., tracing the classical "diet-heart" hypothesis). Using biomarkers, we were among the first to define and **quantify dietary glycemic load (GL) in humans**, then a novel nutritional concept that is now widely used in the clinical management of diabetes, nutritional epidemiology, and dietary feeding trials of diverse population around the world. In several large cohorts of men and women in the US, for example, we did the first series of prospective assessment of dietary GL and various carbohydrates classifications using biomarkers in relation to cardiovascular disease and relevant metabolic phenotypes (*Liu AJE 1994; Liu 1996; JAMA 1999; 2000; AJCN 1999;2000; 2001; 2003, *Gross et al. AJCN 2004, Liu Diabetes 2006*). Funded by the CDC and NIH from 1993 to 2005, we developed, refined, and validated dietary GL and quantify their functional roles in the development of a wide range of biochemical intermediaries and clinical outcomes in both observational and experimental settings. This work has also shown that raising plasma levels of TG and hsCRP while lowering levels of sex-hormone binding protein (SHBG) may be mechanisms whereby a high dietary GL may increase risk for chronic diseases, providing some of the first empirical evidence in support of the notion that intake of refined carbohydrates and a high-GL increases risks of many chronic diseases (*Liu and Sun, J Diabetes 2017; Liu AJCN 2018*).

Our subsequent research has further identified components of what constitute a low GL diet contributing to lower plasma levels of insulin and glucose, markers of systemic inflammation, and reduced risk of CVD and diabetes. This body of work on the biological classification and assessment of various dietary carbohydrates (and *micronutrient profiles*) in relation to vascular outcomes has improved our understanding of nutritional management and interventions for obesity, diabetes and CVD. Since 2005, some of this work has been summarized as the scientific

basis for the *Dietary Guidelines for Americans (2005, 2010, and 2015)*. Together with Professor Walter Willett at Harvard, we have authored several authoritative chapters in textbooks including the most widely used and authoritative medical textbook of *UpToDate since 2004 (Liu and Willett 2004-2022/ it has been updated in 18 editions)*.

My research team was also the first to prospectively identified dietary magnesium to glucose homeostasis characterizing several significant gene-diet interactions in T2D development (**Song et al. Diabetes Care 2007 and BMC Med Genet 2009; *Chan et al. JCEM 2014*), including a functional variant of the *TRMP6* gene (responsible for magnesium active transport) that was shown to increase T2D susceptibility whose effects only expressed among women with low magnesium intake. Subsequently, we designed and conducted two randomized-controlled intervention trials testing the clinical efficacy of magnesium supplementation among overweight/obese individuals or among obese mothers and their offspring for preventing diabetes-related phenotypes. We observed that Mg supplementation for four weeks significantly decreased plasma levels of insulin and C-peptide and led to differential regulation of genes and proteins related to metabolic and inflammatory pathways (**Chacko et al. AJCN 2010; *Cho et al. 2013*). Using biomarkers of lipids (high density lipoprotein cholesterol, HDL, and triglycerides, TG), inflammation (high-sensitivity C reactive protein, hsCRP, IL-6, and TNFalphaR2), endothelial dysfunction markers (ICAM, VCAM, and E-selectin), and aging (Telomere length), we now continue to pursue more comprehensive and in-depth determination of the physiologic relevancies and clinical utilities of *GL (and its associated micro-nutrients and minerals)* in diverse populations in the US, China, Brazil, and Ghana (*Liu et al. AJCN 2001; 2002; Ford and Liu Arch Int Med/JAMA 2001; Li et al. JAMA 2021*).

The **second** main area is in the clinical **epidemiology and methodologic** space where we have attempted to develop a systematic framework termed G6P Analytics® (global, precision, prediction, personalized, prevention, population, and policy) for precision medicine and global health (*Liu Atherosclerosis 2003; *Song et al. Annals of Intern Med 2003 and AJHG 2004; *Hao et al. Genet Epidemiol 2005; *Wang et al. BMC Bioinformatics 2005; *Chao et al. Arch Int Med/JAMA 2010; Liu and Song Diabetes 2010*). The G6P Analytics® framework employs multiple disciplinary methods for *integration, interpretation, and implementation* across multiple levels of causal inference with special emphasis on making causal inference in assessing not only the roles of dietary factors but also genomic variants for chronic disease risk (**Song et al. AJHG 2004; Ann Intern Med/JAMA 2004; Human Molecular Genetics 2007*). For example, while actively pursuing answers to some mechanistic questions related to inflammation and endothelial dysfunction for diabetes development (*Liu Arch Int Med/JAMA 2007; *Song et al. Diabetes 2007 and Diabetes Care 2007*), we conducted the first comprehensive and systematic assessment of the roles of sex-hormones and their binding globulin (SHBG) in T2D development (**Ding et al. JAMA 2006; Diabetologia 2007; NEJM 2009; *Chen et al. Clinical Chemistry 2012*). We found that specific levels of sex-steroids and SHBG may explain a longstanding paradox regarding sex-specific differences in cardiometabolic outcomes observed in clinical settings, first identifying several germline mutations in the **SHBG gene** that influence the risk of developing T2D (one increases while the other decreases risk). We have subsequently shown in multiple populations around the world the direct role of SHBG in affecting T2D risk (**Ding et al. NEJM 2009; Frayling et al. HMG 2010; *Chen et al Clinical Chemistry 2012*). Further, we showed that circulating levels of SHBG can be used not only as a predictive marker for genetic susceptibility of developing T2D but also as a cumulative measure of gene-environment interaction in affecting the clustering of metabolic syndrome and T2D risk (**Goto et al. Diabetes 2010; Li et al. Diabetes Care 2010; *Chen et al. Clin Chem 2012*).

The **third** main area is in **global health** where in recent years I have devoted much effort to the development of a *global* collaborative network for evidence-based clinical and population health

precision practice for chronic disease prevention and control. Particularly in China and Brazil, I have helped nurture the development numerous clinical and population studies of cardiometabolic outcomes across individuals' lifespan and across generations. Some of these studies are still ongoing including 1) The Shanghai Obesity and Diabetes Study (SOS) (*Xu et al., *BMC public health* 2010, Wang et al. *Obesity* 2016; *Diabetes* 2016); 2) The prospective study of Brazilian Cardiovascular Health (EISA Brasil) (*Lin et al. *JAHA* 2015); and 3) The Harbin Famine Study of Families (*Li et al., *AJCN* 2016). I have collaborated with colleagues worldwide in developing and integrating state-of-the art biochemical and genetic assessment into both observational epidemiology and clinical intervention (*Liu Diabetes* 2006; *Hsu et al. *Diabetes* 2008; Liu and Sun, *J of Diabetes* 2016; Lin et al. *Chinese J Endocrinology and Metabolism* 2017). These studies will prove to be of unique and invaluable values for young and aspiring investigators who want to seek answers to some of the aged-old questions of biological, clinical and public health significance (*indicates that the first authors were trainees or mentees under my direct or primary supervision)

RESEARCH FUNDING INFORMATION (>\$20 MILLION)

Past:

1998-1999	Principal Investigator Glycemic Effect of Diet and Risk of Coronary Heart Disease National Institute of Diabetes and Digestive and Kidney Disease NIH/NIDDK/DK-72-020-6516
1999-2003	Co-Investigator Diet and Risk of Coronary Heart Disease: A Pooled Analysis of Cohort Studies NIH/NHLBI, R01 HL58904/HL/United States (PI, Walter Willett)
2000-2004	Principal Investigator High Glycemic Diet and Risk of NIDDM and CHD NIH/NIDDK/K08 DK02767
2001-2005	Principal Investigator Carbohydrate Nutrition in Relation to Obesity and Chronic Diseases, Bell Institute of Nutritional Science, General Mills Inc.
2003-2005	Principal Investigator Developing an evidence-based Framework for Diabetes Prevention by Dietary and Lifestyle modification. Oak Ridge Institute of Science and Education (ORISE), CDC
2001-2006	Co-Investigator and subcontract PI Biochemical and Genetic Markers of Type 2 Diabetes Risk NIH/NIDDK, ROI DK058845 (PI, Frank Hu)
2002-2005	Co-Investigator Confirmation of Endpoints and Causes of Death in Cohort Studies NIH/NCI, P01CA087969 (PI, Graham Colditz)
2003-2005	Principal Investigator Glycemic Load, Insulin Sensitivity, and Plasma Inflammatory Markers in Type 2 Diabetic Patients: A Randomized, Controlled, Crossover Trial. A Pilot grant from the Boston Obesity Nutrition Research Center. NIH/NIDDK, 2P30DK046200 (PI, Barbara Corkey).
2005	Principal Investigator Glycemic load, plasma inflammatory markers, insulin sensitivity and gene. M01 RR002635 (PI Gordon William)
2004-2007	Principal Investigator (Subcontract) Breast & Prostate Cancer & Hormone-Related Gene Variants

2004-2007 NIH/NCI, 1U01CA098233-01 (PI, David Hunter)
Co-Investigator
Biochemical and Genetic Risk Factor for Stroke

2005-2008 NIH, ROI NS050404 (PI, Kathy Rexrode)
Co-Investigator
Framework Program for Global Health: Global Health Training Program
NIH (PI, Gail Harrison)

2006-2009 Principal Investigator
A Randomized Trial of Magnesium Supplement on Insulin Sensitivity and
Inflammation Among Overweight or Obese Men and Women, Bell Institute of
Nutritional Science, General Mills

2007-2009 Principal Investigator (Subcontract)
Genes and Environment Initiatives in Type 2 Diabetes
NIH/NHGRI, U01HG004399 (PI, Frank Hu)

2007-2010 Co-Principal Investigator
UCLA-CA State of Health Service Training Program for Public
Health Laboratory Directors, CA

2005-2012 Co-Principal Investigator
Clinical Center for the Clinical Trial and Observational Study of the Women's
Health Initiative Extension East/West (Pool 2)
NIH/NHLBI, N01-WH-4-2125 (PI, Lauren Nathan)

2002-2012 Principal Investigator
Genetic and Biochemical Predictors for Type 2 DM Among Women
NIH/NIDDK, R01 DK62290

2004-2012 Principal Investigator
Steroid Hormones, Adipose-cytokines, and Diabetes Risk
NIH/NIDDK, R01 DK066401

2008-2010 Principal Investigator
Magnesium supplements, plasma inflammatory markers, and gene expression
M01 RR000865

2011-2013 Principal Investigator
Biochemical Predictors of Type 2 DM in Women
NIH/NIDDK, 2R56DK062290-06A2

2005-2012 Co-Investigator
Jonsson Comprehensive Cancer Center Core Grant
NIH/NCI, CA0 16402 (PI, Judith Gasson)

2005-2012 Co-Investigator
Cancer Epidemiology Training Program
NIH/NCI, 5T32CA009142

2009-2012 Principal Investigator
Telomere and its Bio-regulators as Predictors for Clinical Diabetes in Women
NIH/NIDDK, R21 DK 084452

2011-2013 Principal Investigator
Effects of dietary minerals on metabolic outcomes among overweight pregnant
women, Dry Bean Health Research Program

2009-2013 Principal Investigator (Subcontract)
GWAS of Treatment Response in Randomized Clinical Trials
NIH/NHGRI U01 HG 005152-01 (PI, Alex Reiner)

2009-2017 Principal Investigator
Burroughs Wellcome Fund UCLA Inter-School Program in

- Metabolic Diseases (BWF-IT-MD), Burroughs Wellcome Fund (effort donated after moving to Brown University in 2013)
- 2013-2017 Co-Investigator
Identify and Validate Tissue-specific Gene Networks and Key Regulators of Coronary Artery Disease Using Integrative Genomics, American Heart Association (PI, Yang X) (effort donated after moving to Brown University)
- 2012-2017 Co-Investigator
UCSD-UCLA Diabetes Education and Research Center
NIH/NIDDK (PI, Jerrod Olefsky) (effort donated after moving to Brown University)
- 2006-2016 Co-Investigator
UCLA Genomics Analysis and Interpretation Training Program NIH/NHGRI, 5T32HG002536 (PI, Dr. Ken Lange) (Effort donated after moving to Brown University)
- 2012-2015 Principal Investigator (Subcontract)
Genomics GPUS and Next Generation Computational Statistics NIH/NHGRI, R01 HG006139, NIH (PI, Eric Sobel)
- 2010-2015 Principal Investigator/Co-Investigator (Sites PI at UCLA and Brown) The national Women's Health Initiative Regional Center at Stanford University, NIH/NHLBI contract (PI, Stefanick M)
- 2011-2015 Co-investigator (Subcontract PI)
Glycemic Load and Resistance Training on Endothelial Function and Inflammation, NIH/NIDDK, R01 90406A1 (PI, Roberts C)
- 2013-2018 Co-investigator
DNA Reverses Gene Network Signatures of Fructose-induced Metabolic Syndrome, NIH/NIDDK R01DK104363, NIH (PI, Yang X) (Effort donated after moving to Brown University)
- 2014-2015 Principal Investigator
Bean Growers Association's Dry Bean Health Research Program Award
- 2014-2015 Principal Investigator
Cardiometabolic Health, The C.M. Clover Lectureship Fund, Brown University
- 2012-2017 Principal Investigator (multiple PIs)
Meta-analysis of Type 2 Diabetes in African Americans – the MEDIA Consortium, NIDDK (contract effort donated since moving to Brown in 2013, contact PI, Dr. Maggie Ng)
- 2016-2020 Principal Investigator (Contact)
Cocoa Flavonoids and Multivitamin for Prevention of Diabetes in Men and Women (The COSMOS-Diabetes Trial)
R01 DK106257-01A1 (received outstanding score of 19 but not funded by NIH /funding received from Mars Inc., PI, JoAnn Manson)
- 2013-2018 Principal Investigator
Molecular Epidemiology and Nutrition Program (startup fund), Brown University, Providence, RI
- 2015-2017 Principal Investigator
Integrative Genomics for Gene-Diet Interaction in Vascular Outcomes across Ethnicities, Cardiovascular Genome-Phenome Initiative Pathways Award, American Heart Association
- 2016-2017 Co-Principal Investigator
Large Scale Modeling of a Big Multi-Cohort Data for Cardiovascular Diseases and Type 2 Diabetes, NSF 1557467 QuBBB (PI, Luo X)
- 2018-2020 Principal Investigator

- 2018-2019 Uncovering patterns of gene-diet interaction for cardiometabolic health, American Heart Association (AHA), 17UNPG33750001
Primary Mentor/Co-Director (PI)
Postdoctoral fellowship award: Genetic Architecture of Physical Activity and Its relation to Cardio-metabolic Health in Multiethnic Populations, AHA, 17IFUNP33730001 (PI, Lin X)
- 2015-2019 Principal Investigator
A Brown-Brazil-China Initiatives in Global Cardiometabolic Health (Brown BIG Health), Brown University
- 2017-2019 Co-Investigator and mentor
Transgenerational effects of early-life exposure to the Chinese famine on cardiometabolic risk factors in adulthood and the underlying epigenetic mechanism. National Natural Science Foundation of China (81673156, PI, J Li)
- 2017-2019 Co-Principal Investigator (Subcontract PI)
The genetics and biomarkers of small vessel stroke, AHA (PI, J Cole)
- 2015-2020 WHI-Investigator
Continued followup of participants in the Women's Health Initiative (WHI) and analysis NHLBI/NIH, HHSN268201100003 (PI, Wactawski-Wende J)
- 2018-2020 Co-Investigator
Building heart failure prediction model combining multi-omics with pathway and network methodologies. MRP/045/18X, Hong Kong (PI, Katie Chan)
- 2015-2020 Co-Principal Investigator
Sucrose non-fermenting related kinase and adipose energy Homeostasis. NIDDK/NIH, R01DK103699 (PI, Xu H)

Current:

- 2017-present Co-Investigator/consultant
China National Health and Biomonitoring Program, Chinese CDC (PI, X Shi), Chinese Ministry of Health, China (Effort donated)
- 2018-2023 Primary Mentor/Director
STOP STROKE: Sex Specific Prevention of Stroke through Reproductive Risk Factors and Sex Hormone Effects, K23 HL140081 (PI, Madsen T), NHLBI
- 2019-2023 Principal Investigator
Exposure to Heavy Metals, Trace Elements, and Their Interaction on Diabetes Risk, R01ES029082 (MPI, Zhang, Bai, and Liu), NIEHS.
- 2020-2024 Principal Investigator (Contact)
Environmental metals and risk of cardiovascular disease in the Brazilian longitudinal study of adult health (ELSA-BRASIL), R01ES031391, NIEHS.
- 2020-2022 Principal Investigator
Interagency Personnel Agreement (IPA), Brown University and Veteran Affairs (VA) Initiative for Cardio-Metabolic Health in Veterans, Providence, RI
- 2020-2024 Principal Investigator (Contact)
Asprosin, body weight, and risk of diabetes Risk in U.S. women and men, R01DK125403 (MPI, Liu and Atul), NIDDK
- 2022-2026 Co-Investigator
Perfluoroalkyl substances and risk of liver cancer in US men and women U01CA259208 (PI, Zhang), NCI
- 2021-2025 Principal Investigator (Subcontract)
Magnesium supplement and vascular health: Machine learning from the longitudinal medical record, R01HL156518 (PI, Zeng), NHLBI, NIH

Submitted/in Review:

- 2023-2025 Principal Investigator
Synchronization of multiple cohorts for integrated genomic analysis with special emphasis on gene-diet interaction for stroke among patients with diabetes, AHA
- 2023-2026 Principal Investigator
Project 2, "Effects of Magnesium Supplement on Cardiometabolic & Exercise Function in Patients with Obesity & Diastolic Dysfunction"
AHA Strategically Focused Prevention Research Network "Rhode Island Diabetes and Diastolic Heart Failure Strategically Focused Prevention Research Center"
Project 4. Strategically Focused Atrial Fibrillation Research Network Effects of Prophylaxis Magnesium and/or Zinc on Atrial Fibrillation among Patients with Diabetes in Cardiac Surgery.
- 2023-2027 Principal Investigator
Environmental Endocrine Disrupting Chemicals and Risk of Diabetes in Women and Men, R01ES023781-01
- 2023-2025 Principal Investigator
A pilot randomized intervention trial of magnesium-enriched grains vs. conventional diet in metabolically high-risk pregnant women and their offspring
Foundation for Grains.
- 2023-2027 Co-Investigator
Perfluoroalkyl substances and risk of kidney cancer in US men and women (R010000 - PI, Zheng), NCI/NIEHS, NIH
- 2023-2028 Principal Investigator
Brown Global Cardiometabolic Health and Prevention Research and Training Program (T32 DK131950), NIH
- 2023-2026 Co-Investigator
Should non-pharmacological advice be sex specific in public health recommendations e.g., Glycemic Index and cardiovascular disease, Canadian Institutes of Health Research, CIHR
- 2023-2025 Co-Investigator
Adherence to the Portfolio Diet and risk of diabetes and cardiovascular disease in 3 large U.S. cohorts: A transformative approach using metabolomics and Mendelian randomization to strengthen causal inferences, OG-3-21-5582-JS (PI, D Jenkins), Diabetes Canada End Diabetes 100 Award

REPORT OF TEACHING

Harvard School of Public Health Courses

- 1996-1998 EPI 202b Epidemiologic Methods (Director – Donna Spiegelman); Section leader: 15 graduate students, 8 hours/week preparation, 30 hours contact time/year; NUE 216cd Nutritional Epidemiology (Course director – Walter Willett) Teaching assistant: 30 graduate students, 8 hours/week preparation, 30 hours contact time/year
- 1999-2001 NUE212b Nutrition and Heart Disease (Course director – Eric Rimm) Lecturer: 30 graduate students, 8 hours preparation, 2 hours contact time
- 2002-2005 Research Synthesis and Meta-Analysis Applications in Public Health and Clinical Medicine; Course Director/Developer: 50 graduate students, 16 hours/week preparation, and 3 hours/week contact time for 8 weeks in the spring semester

- NUE210b Nutrition biochemistry (Lecturer: 15 graduate students, 8 hours preparation, 2 hours contact time)
Training Program in Academic Nutrition (Program Director – Walter Willett)
Preceptor: one doctoral student per semester, 2 hours/week contact time
- 2016 EPI207 Genetic Epidemiology (co-Instructor: 50 graduate students, 8 hours per week preparation and 4 hours per week contact time, Fall semester)

Harvard Medical School Courses

- 2001-2004 AC701.0 Critical Reading of the Medical Literature
Tutor: 4 hours/week preparation, 2 hours contact time/week
Preventive Medicine and Nutrition
Tutor: 4 hours/week preparation, 2 hours contact time/week
Advance Basic Science Seminar: Heart Disease, Simple and Complex Effects of Carbohydrates on Heart Disease, Staff of Brigham and Women's Hospital and Harvard Medical School; Lecturer: 8 hours of preparation, 2 hours contact time

University of California at Los Angeles (UCLA) Courses

- 2005-2006 Nature vs. Nurture, and the Recent Epidemic of Metabolic Diseases in Westernized Populations – An Epidemiologic Perspective. Lecture for Doctoral Students: 8 hours of preparation, 2 hours contact time
Current Issues in Genomics and Nutrition, Guest Lecture for Epidemiology 292: Advanced Seminar, November 20th
Lecture for Doctoral Students: 8 hours of preparation, 2 hours contact time
Cancer Epidemiology, Molecular Epidemiology of Cancer, Nutritional Epidemiology, 4 hours contact time
Energy Balance, Glucose Homeostasis, and Cancer Prevention – A Dietary Perspective, Guest Lecture for the Division of Cancer Prevention and Control, 2 hours contact time

Developed and taught four new courses (12 units) that won the Burroughs Wellcome Fund (BWF) award as core courses in establishing the UCLA-BWF interschool program in metabolic diseases (BWF-IT-MD) in 2008

- 2005-2013
1. EPI258 Molecular Epidemiology of Obesity and Diabetes, Course Developer and Director, 4 units graduate level course
 2. EPI297 Current Topics in Nutrition and Genomics, Course Developer and Director, 2-units graduate level course
 3. EPI254 Nutritional Epidemiology, Course Developer and Director, 4-units graduate level course
 4. EPI257 Advanced Nutritional Epidemiology, Course Developer and Director, 2-units graduate level course
- EPI400, 596, 598, 599 Independent Research, Tutor, and Supervision of Master and Doctoral Research Dissertation

Continuing Medical Education Courses

- 2000 Whole Grains and Chronic Disease: A Self-Study Guide for Health Professionals, American Dietetic Association
Technical consultant: 8 hours of preparation
- 2001 Diet and Heart Disease University of Massachusetts, Amherst, MA,
Lecture: 8 hours of preparation, 2 hours contact time
- 2002 Dietary Carbohydrates and Coronary Health – How Much, What Types, and For Whom? Channing Laboratory, Harvard University, Boston MA
Lecture: 8 hours of preparation, 1hour contact time

- 2003 Association Studies of Genetic Variants and Complex Phenotypes, Beijing Union Medical College, Beijing, P.R. China
Lecture: 8 hours of preparation, 1 hour contact time
- 2006 Molecular & Nutritional Epidemiology
Sun Yat-Sen University
Lecture: 8 hours of preparation, 2 hours contact time
- 2009 Genetics Epidemiology, Renal Week, 42nd Annual Meeting & Scientific Exposition, San Diego, CA
Lecture: 8 hours of preparation, 1 hour contact time
- 2016 Causal Inference in Clinical Research, Guangdong Academy of Medical Sciences
- 2017-2020 Summer Workshop in Public Health and Epidemiology and Global Health, Brown University

Brown University Courses

- 2013-Present PHP2220B Nutritional Epidemiology. Lecturer, Course Developer, and Director.
- 2014, 2015 PHP2180 Interpretation and Application of Epidemiology. Primary Instructor
PHP2130 Human biology and epidemiology. Lecturer
- 2014-Present PHP2980 Grad independent study/thesis research. Primary Instructor
PHP2985 MPH independent study/thesis research. Primary Instructor
PHP2222 Genetic, Population and Health. Lecturer
PHP2980 Grad independent study/thesis research. Primary Instructor
PHP2985 MPH independent study/thesis research. Primary Instructor
PHP2018 Epidemiology of Global Cardiometabolic Health. Course Developer and Director (Primary Instructor)
- 2015-Present PHP2070 Public Health/Community Service Internship (MPH CORE course).
Primary Instructor, Group 2.
- 2017-Present PHP2118 Genomics Epidemiology. Course Developer and Director (Primary Instructor)
- 2017-2020 Co-director, Brown- HUST Summer Workshop on Epidemiology and Public Health. Providence, RI.

TEACHING LEADERSHIP ROLE

Since 1993, I have taught and mentored undergraduate, graduate and medical students in the health sciences. I recognize the challenges and opportunities in understanding the explosion of biological data for etiologic inquiry. At Harvard, I was among the first to introduce the assessment of high-throughput biotechnologies and genomic science into public health and clinical settings illustrating the application of epidemiologic principles and relevant statistical methods to the development of evidence-based clinical and public health practices. I developed and taught a semester-long public health core course on research synthesis, systematic and critical review of medical literature, and meta-analysis. At UCLA, I developed several novel courses with curricula that emphasize the application of quantitative methods and evidence-based principles to the exploration and integration of comprehensive biological and clinical data. While biomedical scientists need to be proficient in applying epidemiologic principles and statistical methods, epidemiologists need to learn how to sensibly incorporate, analyze, and interpret emerging genomic data in diverse populations characterized by other phenotypic variables. Thus, I led the integration of training activities across the entire campus for a series of didactic courses described above (EPI254, 257, 258 and 297). Because of these innovative teaching activities bridging disciplinary boundaries, I earned a prestigious award from the BWF foundation to establish the UCLA inter-school Training Program in Metabolic Diseases (BWF-IT-MD, <http://mdtp.mednet.ucla.edu>). This program is one of our nation's first transdisciplinary PhD

program integrating training in both laboratory and population sciences to provide a comprehensive transdisciplinary education in all facets of metabolic diseases. From 2009 and 2013, I took the lead in expanding these teaching activities via several public symposia, including the “Translational Research for Metabolic Disease Prevention: From Molecules to Populations” that was broadcasted by the University of California TV network (UCTV) (www.uctv.edu or www.youtube.com), and public lectures and grand rounds throughout the U.S. and internationally. At Brown, I have developed and taught four graduate-level courses in epidemiology (PHP2008 Epidemiologic Interpretation, PHP2018 Epidemiology of Cardiometabolic Health, PHP2220 Nutritional Epidemiology, and PHP2118 Genomics Epidemiology).

In summary, teaching and mentoring has always been at the top of my scholarly agenda. I believe firmly the nobility of our profession particularly in generating new knowledge and in cultivating the next generation of biomedical scientists and public health professionals. I see the process of truth seeking as a privilege and fun communal experience, and I am thankful for the good fortune of working with many exceptionally dedicated trainees over the years.

Advisory and Supervisory Responsibilities in Clinical or Laboratory Settings

On average, I devote 16 hours/week in the teaching, mentoring and supervising trainees. At Harvard, UCLA and Brown, I have directly supervised 120 undergraduate and graduate students, postdoctoral fellows, and junior faculty members (~70% women, ~50% Asian, 30% Caucasian, and 10% African Americans and others). Some of my trainees have gone on to become productive and successful colleagues effectively contributing to fields of nutrition, clinical medicine, public health, and epidemiology. My responsibilities include advising thesis work, arranging for internship opportunities, didactic teaching, as well as consultation and mentoring.

Advisees/Trainees/Mentees

	Name	Degree Received/ Current Year	Institution	Mentoring Period	Current Position
1.	Hyon Choi*, MD	Post-Doctoral Fellow	Harvard University	2001-2002	Chief of Rheumatology and Professor of Medicine, University of British Columbia
2.	Annaswamy Raji*, MD	Post-Doctoral Fellow	Harvard University	2002-2003	Assistant Professor of Medicine, Brigham and Women's Hospital
3.	Julia Wong*, MD	MPH	Harvard University	2002-2003	Affiliate Scientist, St. Michael's Hospital
4.	Susan Higginbotham+, PhD	PhD	Harvard University	2002-2005	Senior Scientist, American Institute of Cancer Research
5.	Lydia Bazzano*	Post- Doctoral Fellow/Resident	Harvard University	2002-2005	Associate Professor (tenured), Tulane University Medical School and School of Public Health
6.	Yiqing Song**, MD	ScD and Post- Doctoral	Harvard University	2002-2005	Professor of Epidemiology (tenured), Indiana University School of Public Health. Director of Graduate Studies
7.	Sok-Ja Janket*, DDS	Post-Doctoral Fellow	Harvard University	2002-2004	Associate Professor, Boston University School of Medicine
8.	Emily Levitan+	ScD	Harvard University	2002-2006	Professor of Epidemiology (tenured), University of Alabama at Birmingham

9.	Ka He*, MD, ScD	Post-Doctoral Fellow	Harvard University	2003-2004	Chair and Professor (tenured), Epidemiology & Biostatistics, Indiana University School of Public Health
10.	Kristal Young	Summer Internship	Harvard University	2003-2004	n/a
11.	Lu Qi, MD, PhD	Post-Doctoral fellow	Harvard University	2003-2005	Assistant Professor, Channing Lab, Harvard Medical School
12.	Lee Gross, MD	Resident Fellow	Harvard University	2003-2004	Prime Health of North Port, CEO and Physician
13.	Carine Lenders*, MD	ScD	Harvard University	2003-2008	Associate Professor of Medicine (tenured), Boston University School of Medicine
14.	Elizabeth A. Jackson*	Post-Doctoral Fellow	Harvard University	2004-2005	Associate Professor of Medicine (tenured), University of Michigan
15.	Judy Lau	Summer Internship	Harvard Medical School	2006-2007	n/a
16.	Lu Wang, MD, PhD	Post-Doctoral fellow	Harvard University	2004-2006	Assistant Professor of Medicine, Harvard Medical School
17.	Ke Hao, ScD	Post-Doctoral Fellow	Harvard University	2004-2005	Associate Professor (tenured), Mount Sinai School of Medicine
18.	Eric Ding ⁺	ScD	Harvard University	2004-2007	Research Scientist, Harvard School of Public Health
19.	Dalia Bedair	MS	UCLA	2005-2007	Los Angeles Department of Public Health, Epidemiology Analyst
20.	Cuiling Zhang, MD, PhD	Post-Doctoral Fellow	Harvard	2004-2007	Senior Investigator (tenured), NICHD, NIH
21.	Adam Arechiga	Post- Doctoral Fellow	UCLA	2005-2007	Director of Clinical training, Loma Linda University
22.	Lin Wang*, ScD	Post-Doctoral Fellow	UCLA	2005-2007	Senior Analyst, Strategic Investment Division, Bank of China Group Investment
23.	Yi-Hsiang Sean Hsu*, MD, ScD	Post-Doctoral Fellow	UCLA	2005-2007	Assistant Professor of Medicine, Harvard Medical School
24.	Chun Chao*, PhD	Post-Doctoral Fellow	UCLA	2006-2007	Scientist IV, Kaiser Permanente, Southern CA
25.	Garry Kelley*	MPH	UCLA	2006-2007	Epidemiologist, Kansas Department of Health and Environment
26.	Gina Waller	MPH	UCLA	2006-2007	n/a
27.	Lu-May Chiang	PhD	UCLA	2006-2007	Biostatistician, Novartis Inc.
28.	Patricia Ou	MPH	UCLA	2006-2007	n/a

29.	Hee-Young Kim	MS	UCLA	2006-2007	n/a
30.	Nai-chieh You*, PhD	Post-Doctoral Fellow	UCLA	2006-2007	Assistant Professor, UCLA School of Public Health
31.	Gopika Datta, MD	Post-Doctoral Fellow	UCLA	2006-2007	Harbor-UCLA Physician
32.	Uyun-Chi Huynh	MPH	UCLA	2007-2008	n/a
33.	Weiwei Cao*, MD	PhD	UCLA	2007-2008	Clinical Fellow, UCLA Medical Center
34.	James Sul*, MD	Post-Doctoral Fellow	UCLA	2006-2009	Assistant Professor of Medicine, Department of Medicine, UCLA
35.	Yi-Lin Chen	MS	UCLA	2007-2009	Return to Taiwan (n/a)
36.	Shilpa Narayan	MPH	UCLA	2007-2009	PhD Student in Epidemiology, UCLA School of Public Health
37.	Cathy C. Lee*, MD	Fellow / Assistant Professor	UCLA	2006-2012	Associate Professor of Medicine (tenured), Chief of the Division of Geriatric Medicine, UCLA VA Greater Los Angeles Health System
38.	Nupur Gupta	MPH	UCLA	2007-2009	Medical Student, UC Irvine Medical School
39.	Ximin Li	MPH	UCLA	2007-2009	n/a
40.	Preethi Srikanthan*, MD	Post-Doctoral Fellow	UCLA	2008-2009	Assistant Professor of Medicine, UCLA Medical School
41.	Christian Roberts*, PhD	Post-Doctoral Fellow	UCLA	2007-2010	Assistant Professor of Physiology, UCLA
42.	Eva Qing Ye	MPH	UCLA	2008-2010	Senior Health Policy Analyst, Novo Nordisk, China
43.	Matthew Kugizaki	MS	UCLA	2008-2010	Associate at Loeb & Loeb LLP
44.	Jessica Chow	MPH	UCLA	2008-2010	UCSF Medical School
45.	Sheng Wu	MPH	UCLA	2008-2010	Senior Biostatistician, Mayo Clinics
46.	Trevor Tompane	MPH	UCLA	2008-2010	UCLA Medical School
47.	Guili Zhang, MD	MPH	UCLA	2009-2010	Department of Health, State of California
48.	He Xu*, MD, PhD	Post-Doctoral Fellow	UCLA	2009-2010	Staff Scientist, Chinese Academy of Biological Sciences, Shanghai, China

49.	Yi-Lin Wu ⁺ , PhD	MS	UCLA	2009-2011	Kaiser Permanente Research Analyst
50.	Brian Chen ⁺ , PhD	PhD	UCLA	2006-2011	Investigator (intramural), NIA, NIH
51.	Wenhua Hu	PhD	UCLA	2006-2010	Biostatistician, Gilead, Inc
52.	Sara Chacko ⁺ , PhD	PhD	UCLA	2006-2012	Research Fellow in integrative medicine, Beth Israel Deaconess Center & Harvard Medical School
53.	Katie Kei Hang Chan ⁺ , PhD	PhD	UCLA	2007-2012	Assistant Professor of bioinformatics, Chinese University of Hong Kong Adjunct Assistant Professor of Epidemiology, Brown University
54.	Hua Guo	PhD	UCLA	2007-2013	Biometrician, Merck
55.	Hsiu-Wen Chen	PhD	UCLA	2008-2011	n/a
56.	Atsushi Goto ⁺ , MD	PhD	UCLA	2008-2012	Professor (Tenured) and Chair, Department of Community Medicine, Japanese National Center of Medicine
57.	Xu-yang Lu ⁺	PhD	UCLA	2008-2013	Biostatistician, Genentech
58.	Yan Song ⁺ , MD	PhD & Post-doctoral fellow	UCLA	2009-2014	Vice President of the Analysis Group, Inc in Boston, MA
59.	Kathleen Brennan ⁺ , MD	Clinical Fellow	UCLA	2009-2011	Associate Professor, Attending Physician and Director of Reproductive Endocrinology, UCLA Medical Center
60.	Matthew Levinson ⁺	PhD	UCLA	2011-2013	Data Science Manager, Nike Inc.
61.	Aileen Baecker ⁺ , PhD	PhD	UCLA	2012-2016	n/a
62.	Michele Cho ⁺ , MD	Clinical Fellowship	UCLA	2011-2013	Physician, Seattle Reproductive Medicine Inc. Seattle, WA
63.	Bingqin Liu	MS	Brown University	2013-2015	n/a
64.	Stephanie Liang	MPH	Brown University	2013-2015	Medical Student, Chinese University of Hong Kong
65.	Xiaochen Lin ⁺ , PhD	BWF PhD & AHA Postdoctoral Fellow	UCLA and Brown University	2013-2018	Director, Biogen Inc.
66.	Mengna Huang ⁺	PhD	Brown University	2014-2018	Postdoctoral Fellow, Brigham and Women's Hospital and Harvard Medical School

67.	Stephanie Shih ⁺	PhD	Brown University	2014-2018	Research Scientist, UCSF
68.	Qing Liu ⁺	MS and PhD	Brown University	2014-2019	Senior Analyst/Director, Boston Analysis Group, Inc
69.	Siddique Abbasi*, MD	AHA Fellowship	Brown University	2014-2016	Assistant Professor of Medicine, Brown and Providence VA-Medical Center, RI Clinical Research Senior Medical Scientist at Amgen
70.	Alina Li*	Summer Intern and MPH	Emory University and Brown University	2015-2021	Investigator, CDC Foundation
71.	Angelica Liang	MPH	Brown University	2015-2016	Virginia Commonwealth University Medical School
72.	Jie Li*, PhD	Postdoctoral Fellow	Brown University	2015-Present	Adjunct Professor, Brown University; Professor and Deputy Director, International Health Center, Guangdong Academy of Medical Sciences
73.	Oluwandamilola Oni-Orisan	MPH	Brown University	2015-Present	n/a
74.	Jinjie Liu	MPH	Brown University	2015-2017	n/a
75.	Genoviva Sowmino-Coker	MPH	Brown University	2015-2017	n/a
76.	Sophie Kauderer*	MPH	Brown University	2015-2017	University of Washington, Seattle, WA
77.	Yidan Zhang*	MPH	Brown University	2015-2018	Research Program/Project Coordinator, Brown University (Field placement: Chinese University of Hong Kong; Prince of Wales Hospital Diabetes and Metabolic Disease Center)
78.	Aimin Yang ⁺ , PhD	Postdoctoral Fellow	Brown University	2015-2017	Research Scientist, Chinese University of HongKong & Brown University
79.	Ian Pan ⁺	BA/MD	Brown University	2015-Present	PLME Medical student, Brown University
80.	Andrew Zullo, Pharm D. and PhD	Postdoctoral Fellow	Brown University	2015-Present	Assistant Professor, Department of Health Services, Policy, and Practice at Brown University
81.	Rossi Luo, PhD	Assistant Professor	Brown University	2013-2018	Associate professor of Biostatistics, UT Houston

82.	Jean Wu, PhD	Associate Professor	Brown University	2014-2015	Associate Professor of Biostatistics (tenured), Brown University School of Public Health
83.	Yen-Tsung Huang*, PhD	Assistant Professor	Brown University	2013-2016	Tenured member, Taiwan Academy of Sciences
84.	Haiyan Xu*, PhD	Associate Research Professor	Brown University	2014- Present	Associate Research Professor of Epidemiology, Brown University and Merk, Inc.
85.	Helena Zhang	Summer Intern	George Washington University	2016- Present	Student Researcher, George Washington University
86.	Jiqui Wang*, MD, PhD	Visiting Scientist	Shanghai Ruijing Hospital	2013-2014	Attending and Professor of Medicine, Ruijing Hospital, Shanghai, China
87.	Tracy Madsen, MD, ScM	Post-doctoral K23 & PhD	Warren Alpert Medical School of Brown University	2016- present	Assistant Professor, Department of Emergency Medicine, Brown University
88.	Yichen Guo	PhD	Harvard University	2017- present	ScD candidate, Harvard University
89.	Reuben Horace	MPH	Brown University	2017- present	MPH candidate, Brown University
90.	Qiuting Li	MPH	Brown University	2017- present	MPH candidate, Brown University
91.	David Liendo Uriona	MPH	Brown University	2017- present	MPH candidate, Brown University
92.	Sara Long	MPH	Brown University	2017- present	MPH candidate, Brown University
93.	Samyukta Singh	MPH	Brown University	2017- present	MPH candidate, Brown University
94.	Kenenth Lo ⁺	Exchange PhD Student & Postdoctoral Fellow	Chinese University of HongKong (CUHK)	2017-2020	Research Assistant Professor, Hongkong Polytechnics University
95.	Meng Zhu	MPH	Huazhong University of Science and Technology	2017- present	MD in Medicine, Huazhong University
96.	Yang Yin	MPH	Peking University	2017- present	MD in Preventive Medicine, Peking University
97.	Tanesha Dudley	MPH	Brown University	2017-18	MPH, Brown University

98.	Xichi Zhang	MPH, Summer Intern	George Washington University	2017- present	BS in Biology, George Washington University
99.	Anthony Pellegrino	MPH	Brown University	2017- present	Brown University
100.	Adora Anudu	MPH	Brown University	2017- present	NA
101.	Xin Liu*	MPH	Brown University	2017- present	Shanghai, China
102.	Jessica D'Silva	MPH	Brown University	2017- present	MPH, Brown University
103.	Kaitlin Gately*	MPH	Brown University	2017-2019	Boston Analysis Group
104.	Kimberley Duru	MPH	Brown University	2017- present	MPH candidate, Brown University
105.	Ricardo Correa	Assistant Professor of Medicine	Brown University	2017-2018	Assistant Professor, Brown University
106.	Alyssa Francis	MPH	Brown University	2018- present	MPH candidate, Brown University
107.	Kayla McAvoy	MPH	Brown University	2018- present	MPH candidate, Brown University
108.	Leah Siegel- Reamer	MPH	Brown University	2018- present	MPH candidate, Brown University
109.	Katelyn Amand	MPH	Brown University	2018- present	MPH candidate, Brown University
110.	Sebhat Erqou, MD, PhD	Postdoctoral Fellow	Lifespan Cardiovascu lar Institute	2018- present	Assistant Professor of Medicine/Veteran Affairs
111.	Jun Ke	PhD Candidate	Brown University	2018-2020	U of Texas, Houston
112.	Jungho Gong	BA & MD Candidate	Brown PLME	2018-2021	Brown PLME program; Honor thesis and internship
113.	Samuel Shim	ScM	Brown University	2019- present	Epidemiology
114.	Shuqing Lai, MD	Visiting Scientist	Brown University	2019-2020	Guangdong General Hospital and Academy of Medical Sciences
115.	Qingwei Zhong	ScM	Sun Yat- Sen University	2020- present	Research assistant in Guangdong General Hospital and Academy of Medical Sciences
116.	Meghan Keating	BA	Middlebury College	2020- present	Bachelor of Science in Molecular Biology, Middlebury College
117.	Bo Yang	ScM and PhD	Brown University	2020- present	Research assistant in Brown University
118.	Yufei Li	ScM	Brown University	2020- present	MPH, Brown University

119.	Muhammad Baig, MD	MPH	Brown University	2020-present	Hospitalist physician, the Miriam Hospital and Lifespan CVI
120.	Miremad Moafi Madani	PhD Candidate	Brown University	2020-present	Brown University
121.	Lingling Zheng	ScM	Sun Yat-Sen University	2021-present	Research assistant in Guangdong General Hospital and Academy of Medical Sciences
122.	Xihui Zhang	MPH	Brown University	2022-Present	Research Thesis and Internship
123.	Rishik Manthana	BA and MD	Brown PLME	2022-Present	Honor Thesis and Internship
124.	Kevin Xi	MPH	Brown University	2022-Present	Research Thesis

**Indicates postdoctoral fellows and/or PhD students under my primary supervision and as chair of their dissertations committee)*

REGIONAL, NATIONAL, AND INTERNATIONAL CONTRIBUTIONS

I have given ~200 invited presentations (being invited many more that I cannot accept), including keynote or plenary lectures at professional venues (the NIH, the CDC, AHA, ADA, WHO, and Gordon conferences), and at top academic institutions around the world:

1993:

1. Evaluation of the Behavioral Risk Factors Surveillance System. Epidemic Intelligence Service (EIS) Surveillance Conferences, CDC, Atlanta, GA

1994:

2. The Reliability of Recalled Alcohol Intake. Monthly Seminar, National Center for Chronic Disease Prevention and Health Promotion, CDC, Atlanta, GA
3. A Meta-Analysis on the Relationship between Alcohol Intake and the Risk of Breast Cancer, CDC, Atlanta, GA

1995:

4. Alcohol and Body Weight: Where Do All the Calories Go? The Boston Obesity Research Coordinating Center, Boston, MA

1998:

5. Collinearity – Statistical Nemesis or Biological Reality? Assessing the Glycemic Effect of Carbohydrate on CHD Risk. Harvard Human Nutrition Seminar, Boston, MA
6. Symposium on New Development in Diet and Heart Disease: Dietary Glycemic Load and CHD Among US Nurses, The 31st SER Conference, Chicago, IL
7. Keynote Speaker: Insulin Resistance, Hyperglycemia and Risk of Major Chronic Diseases: A Dietary Perspective, The 22nd Annual Scientific Meeting of the Australian Nutrition Society, Adelaide, Australia

1999:

8. Dietary Glycemic Load and Coronary Heart Disease, Division of Nutrition and Physical Activity, CDC, Atlanta, GA
9. Fats vs. Carbohydrates and Foods vs. Nutrients for Chronic Disease Prevention, American Cancer Society (ACS), Atlanta, GA

2000:

10. Methodological Considerations in Assessing Dietary Glycemic Load in epidemiologic Studies and Interpreting Findings for Coronary Heart Disease, Harvard Human Nutrition Seminar, Department of Nutrition, Harvard School of Public Health, Boston, MA

11. Intake of Whole Grains in Relation to Risk of Type 2 Diabetes and Coronary Heart Disease, The Vahouny Fiber Conference, Washington DC
12. The Impact of Glycemic Indices of Foods, Physical Activity, and Caloric Distribution on Health. Workshop on Dietary Reference Intakes (DRI) for Macronutrients convened by the Food and Nutrition Board (FNB), Institute of Medicine, National Academy of Science, Washington DC

2001:

13. Insulin Resistance and Risk of Major Chronic Diseases: A Dietary Perspective for Curbing the Epidemic of Our Time, The World Federation of Public Health Associations' 9th International Congress, Beijing, P.R. China
14. Glycemic Index and Health: The Quality of the Evidence, Workshop organized by the Food and Agriculture Organization (FAO)/World Health Organization (WHO), Bandol, France
15. The Emerging Significance of Dietary Glycemic Load: Fact or Fiction? The Welch Epidemiology and Prevention Center, School of Medicine, The John Hopkins University, Baltimore, MD
16. Plenary Speaker: Plant-based Foods, Antioxidants, and Phytochemical and the Prevention of Cardiovascular Disease – Epidemiological Evidence. The Antioxidant Initiative Conference, Oldways Preservation Trust, Lake Tahoe, CA
17. Insulin Resistance and Hyperglycemia in Relation to Diabetes and Heart Disease – Dietary Perspective with Implication in Cancer Research. Division of Population Sciences and Genetics, National Cancer Institute (NCI), Bethesda, MD
18. The Women's Health Study and the Physicians' Health Study II, The Longevity Consortium Workshop, Reykjavik, Iceland
19. Keynote Speaker: Dietary Carbohydrates and Coronary Health: Why, How Much, What Types, and for Whom? The Symposium on Glycemic Index and Health. University of Melbourne, Melbourne, Australia
20. Keynote Speaker: Dietary Glycemic Load As a novel Functional Measure in the Prevention of Type 2 DM and Heart Disease, The 19th Nutritional Foundation Conference of the University of Sydney, Sydney, Australia

2002:

21. The Emerging Significance of Dietary Glycemic Index and Load: Functional Concepts in Dietary Studies of Metabolic Diseases, UCLA, Los Angeles, CA
22. Keynote Speaker: The Importance of Distinguishing Types of Starch in Dietary Studies of Metabolic Disease, The 14th Annual Food Focus of the American Association of Cereal Chemists, MN
23. The Women's Health Study and Physicians' Health Study, Longevity Consortium Workshop, NIA and UCSF, Napa, CA
24. Dietary Carbohydrate and Coronary Health: Evolutionary Theory, Epidemiologic Observation, and Experimental Evidence, Tufts University, School of Nutrition, MA
25. Emerging Findings in Dietary Study of Obesity, Bell Institute of Human Nutrition, General Mills Inc., MN
26. Keynote Speaker: Dietary Carbohydrates and Health – Evolutionary Theory, Epidemiologic Observations, and Experimental Evidence, Workshop on Nutrition and Health, Chinese Academy of Preventive Medicine, Beijing, P.R. China.
27. Keynote Speaker: Whole- Versus Refined? Grain Foods in Health and Disease, Shanghai Nutrition Society Annual Meeting, Shanghai, P.R. China

2003:

28. Plenary Speaker: Healthy People Healthy Grains – Epidemiologic Evidence, International Conference on the Mediterranean Diet, Boston, MA

29. Dietary Glycemic Index and Load: Physiological Concepts and Practical Guidance in Dietary Studies of Metabolic Diseases, Slone Center for Epidemiologic Studies, Boston University, Boston, MA
30. What the Science of Genomics Can or Cannot Do for Nutrition Research, The 44th Annual Scientific Meeting of the American College of Nutrition, Nashville, TN
31. Plenary Speaker: Prevention of Diabetes by Diet and Lifestyle Modification, The 44th Annual Scientific Meeting of the American College of Nutrition, Nashville, TN
32. Symposium on Diet and Obesity, The Scientific Section of the American Heart Association, Orlando, FL
33. APOE Genotypes and Coronary Heart Disease Risk – Can Meta-Analysis Provide an Answer? The Scientific Section of the American Heart Association, Orlando, FL

2004:

34. The Influence of Genetic Variants and Nutrition on the Development of Vascular Diseases: Current Status and Future Direction, UCLA School of Public Health, Los Angeles, CA
35. The Nutritional and Genetic Epidemiology of Type 2 Diabetes Mellitus: Current Status and Future Direction, University of Massachusetts Medical School, Worcester, MA
36. The Emerging Significance of Dietary Carbohydrates in the Context of a Sedentary Lifestyle for the Development of Chronic Diseases, Karolinska Institute, Sweden
37. A Large Association Study of Candidate Genes for Type 2 Diabetes Risk in Multiethnic Women: A Progress Report on SNP Selection Strategy, Harvard Program on Molecular and Genetic Epidemiology, Boston, MA
38. GrandRound Speaker: Dietary Causes of Metabolic Diseases: Evolutionary Theory, Epidemiologic Observations, and Clinical Experiments, Medicine Grand Round, University of Massachusetts Medical School, Worcester, MA
39. Keynote Speaker: Diet and Lifestyle Determinants of Obesity and Type 2 Diabetes: An Assessment of Metabolic and Epidemiologic Evidence for Prevention, Journey to Excellence: 12th Annual Acute Care Nursing Symposium, Columbus, OH

2005:

40. Dietary Determinants of Metabolic Diseases: An Overview of the Relevant Evolution Theories, Epidemiologic Observations, and Clinical Experiments, Harvard Program in Nutrition, Boston, MA
41. Keynote Speaker: Dietary Determinants of Metabolic Syndrome, Canadian Nutrition Society Annual Meeting, Montreal, Canada
42. Plenary speaker: Whole Grain and the Maintenance of Healthy Weight: Epidemiologic and Clinical Evidence, The 18th International Congress of Nutrition, Durban, South Africa
43. Plenary speaker: Whole Grains and Obesity. Whole Grains Health: A Global Summit, Minneapolis, MN
44. Plenary speaker: Diet Quality and Obesity. Canadian Society of Clinical Nutrition Annual Meeting, Montreal, Canada

2006:

45. Plenary speaker: Dietary Glycemic Load is Important. American Heart Association Annual Spring Conference, Washington DC
46. Symposium Speaker, Public Health Implications of Stem-cell Research, UCLA Center for Society and Genetics, Los Angeles, CA
47. Dietary Determinants of Metabolic Diseases, Vanderbilt University School of Medicine, Nashville, TN
48. Dietary Glycemic Load and Heart Disease – A New Paradigm, Sun Yet-Sen University, School of Public Health, Guangzhou, P.R. China
49. Nature vs. Culture, and the Recent Epidemic of Metabolic Diseases, Institute of Nutritional Science, Chinese Academies of Sciences, Shanghai, P.R. China

50. Dietary Factors and Reduced Disease Risk – Epidemiological Evidence, International Food & Health Innovation Conference, Malmo, Sweden
51. Glycemic Load and Health Outcomes, World Health Organization, Geneva, Switzerland
52. Plenary Speaker: Epidemiology of Chronic Disease in the World and Dietary Implications, The 13th World Congress of Food Science and Technology, Nantes, France.
53. Dairy Intake and Risk of Type 2 Diabetes in Women, Milk, Hormones, and Human Health Workshop, Boston, MA.
54. Plenary Speaker: Glycemic Load and Glycemic Index Overweight and Obesity Relevant Markers, International Life Science Institute, Nice, France.

2007:

55. Plenary Speaker: Frontier in Diabetes Research Sex Hormones as Predictors for Type 2 Diabetes, American Diabetes Association 67th Annual Scientific Sessions (ADA), Chicago IL.
56. World Health Organization (WHO)'s Scientific Update on Dietary Carbohydrates in Human Nutrition One Step Forward Two Steps Back, UCLA Training Program on Public Health Nutrition, Los Angeles, CA
57. Genomic Science and its Implication to Preventive and Predictive Medicine, Sun Yat-Sen University-UCLA Leadership Program in Academia, UCLA School of Education and Information Management, Los Angeles, CA
58. Circulating Levels of Resistin in Relation to Metabolic Markers and Risk of Developing Type 2 Diabetes in Postmenopausal Women, 2007 American Heart Association Scientific Section (AHA), Orlando, FL
59. From "Sick" Populations to "Sick" Molecules - Understanding the Modern Epidemics of Metabolic Diseases for Prevention, University of Southern California, Los Angeles, CA
60. The Modern Epidemics of Metabolic Diseases in Westernized Populations - An Epidemiologic Perspective, Centers for Disease Control and Prevention, Atlanta, GA
61. Plenary Speaker: "Prevention and Treatment of Lifestyle-related Diseases and Metabolic Syndrome: Diet and Exercise", 22nd International Scientific Forum, Tokyo, Japan
62. My Career in Academic Medicine and Public Health, Sun Yat-sen University – Cancer Center, Guangzhou, China

2008:

63. Magnesium in the Treatment of Diabetes and Cardio-metabolic Syndrome, Gordon Conference on Magnesium in Biochemical Processes and Medicine, Ventura, CA
64. Grand Round Speaker: Dietary, Hormonal and Genetic Causes of
65. Metabolic Diseases: Recent Findings in Diverse Populations, Endocrine Grand Rounds, UCLA, Los Angeles, CA
66. Plenary Speaker: Nutrigenetics: Current Status, American Society of Nutrition Professional Development Symposium, San Diego, CA
67. Plenary Speaker: Plant-based Diet, European Union Health Grain Consortium Annual Meeting, Madrid, Spain
68. Plenary Speaker: Fiber and Obesity, Canadian Society for Clinical Nutrition-CSNS Annual Scientific Meeting, Toronto, Canada
69. Plenary Speaker: Dietary and Molecular Causes of Metabolic Diseases: Integrating Evolutionary Theory, Epidemiologic Observations, and Clinical Experiments for Prevention, 10th Symposium on Molecular Diabetology in Asia, Guangzhou, China

2009:

70. Sex-Hormone Biology in Type 2 Diabetes, Family Medicine and Community Medicine Grand Round, Brown University, Rhode Island
71. Diabetes Risk Prediction and Clinical Implications, The 9th Emerging Information & Technology Conference, Massachusetts Institute of Technology, Cambridge, MA

72. Gene, Environment, and Epidemics of Our Time: Can We Put Humpty-Dumpty Back Together for Prevention, Division of Cancer Prevention and Control at UCLA, Los Angeles, CA
73. Sex Hormone Biology in Type 2 Diabetes: Translating Epidemiologic Observations to Clinical Risk Stratification and Interventions, Kaiser Permanente Southern California, Pasadena, CA
74. Plenary Speaker: Genetics Etiology, Renal Week, 42nd Annual Meeting & Scientific Exposition, San Diego, CA
75. Plenary Speaker: Translational Research for Metabolic Disease Prevention: From Molecules to Populations Symposium, "Biomarkers for Type 2 Diabetes Prevention: Translating Epidemiologic Observations to Clinical Risk Stratification and Intervention", Broadcasted by UCTV, Los Angeles, CA

2010:

76. Molecular Markers of Complex Diseases, Department of Community Health, Brown University, Providence, Rhode Island
77. Dean's Distinguished Speakers Series. Genes, Diets and "Epidemics of Our Time". University at Albany School of Public Health, Albany, NY
78. Recent Advances in Metabolic Diseases, Department of Epidemiology, Columbia University, New York, NY

2011:

79. Molecular Epidemiology of Metabolic Diseases, Department of Community Health, Brown University, Providence, Rhode Island
80. Chair Speaker: Translational Epidemiology: Challenges and Opportunities, Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA

2012:

81. A prospective study of telomere and its bio-regulators as predictors for clinical diabetes in women, Seminar of the Women's Health Initiative Scientific Interest Group on Aging, Los Angeles, CA
82. Understand interactions for curbing the epidemics of our time, Director's Seminar, Fred Hutchinson Cancer Research Center, Seattle, WA
83. Plenary Speaker: Incorporating systems biology into observational and experimental studies of gene-nutrition interaction, Symposium on gene-nutrition interaction, 45th Society for Epidemiologic Research (SER), Minneapolis, MN
84. Invited Speaker (Grand Round): Magnesium, vitamin D, inflammation and vascular outcomes, OBGYN Grand Round, UCLA, Los Angeles, CA
85. Curbing the epidemics of our time: Collaborative experience to improve understanding. NHLBI Global Health Think Tank. NIH, Bethesda, MD
86. Challenges in nutritional epidemiology of chronic diseases, WHO workshop, Beirut, Lebanon
87. Speaker (Grand Round): Sex hormones and sex-hormone binding protein (SHBG) as predictors for diabetes and metabolic syndrome, Endocrine Grand Round, University of Utah, Salt Lake City, Utah
88. Plenary Speaker: Evaluating the sex-steroid axis and sex hormone binding globulin (SHBG) for clinical risk stratification of diabetes and metabolic syndrome, 10th international congress on insulin resistance, obesity, diabetes and cardiovascular risk, Los Angeles, CA
89. Plenary Speaker: Recent advances and future challenges in studying gene-nutrition interactions. The 2ND International Symposium on Nutrition and Health. GuangZhou, China

2013:

90. Grand Round Speaker: Diabetes' Sexy Axis: Time to incorporating sex-steroids and sex hormone binding globulin (SHBG) for clinical risk stratification. Combined Endocrine Grand Round, Department of Medicine, Alpert Warren School of Medicine and Rhode Island Hospital, Providence, RI
91. Plenary Speaker: 11th Annual World Congress on Insulin Resistance, Diabetes and Cardiovascular Disease (WCIRDC), Los Angeles, CA
92. Plenary Speaker: Novel biomarkers for understanding vascular diseases: risk stratification and interventions. University of São Paulo, São Paulo, Brazil
93. Symposium/plenary Speaker: Application of Mendelian Randomization in observational studies. University of São Paulo, Brazil.
94. Symposium Speaker: Utilities of sex steroids and sex-hormone binding globulin in clinical risk stratification. Brazilian congress of cardiology, São Paulo, Brazil.

2014:

95. Shared molecular pathways and gene networks for cardiovascular disease and type 2 diabetes in women across diverse ethnicities. Epidemiology and Prevention | Nutrition, Physical Activity and Metabolism 2014 Scientific Sessions, San Francisco, CA
96. Invited Speaker (Grand Round): Consensus and controversies: the 2013 ACC/AHA Cholesterol Guideline. Grand Round, Department of Medicine, Rhodes Island Hospital, Providence, RI
97. Epidemiology of Cardiovascular Outcomes. Guangdong General Hospital and Gaungdong Academy of Medical Sciences, Guangzhou, China
98. Symposium Speaker: Implementation of Cohort Studies in Diabetes Research and prevention, 18th China Diabetes Society Scientific Meeting, Guangzhou, China
99. Moving Dietary Research toward a Standard Clinical Practice. University of Copenhagen, Denmark
100. Establishing consistent standards for whole grain foods in research and practice. United States Department of Agriculture (USDA), Washington, DC
101. Shared Molecular Pathways for Cardiovascular Disease and Diabetes in Women Webinar, Obesity and Diabetes Interest Group in the Women's Health Initiative, Washington, DC
102. Grains & Health Public Private Partnership Workshop, Washington DC

2015:

103. Epidemiology of Cardiometabolic Health. The Brown-China Forum on Public Health Research and Health Policy, Brown University, Providence, RI
104. Diabetes Sexy Axis: Sex Steroids and Their Binding Protein in Clinical Risk Stratification and Interventions. Medicine Grand Rounds. Sun Yat-Sen University School of Medicine, Guangzhou, China
105. Assessment of Therapeutic Targets using Integrative Genomics. The 88th Annual Scientific Meeting of the American Epidemiological Society, Berkeley, CA
106. Comprehensive Assessment of Therapeutic Targets and Off-Targets Using Integrative Genomics and Epidemiology. Symposium of Cardiovascular Basic & Translational Medicine in 17th South China International Congress of Cardiology. Guangzhou, China.
107. Molecular Epidemiologic Investigation by A Clinical Endocrinologist. Endocrine Division, Guangdong General Hospital, Guangzhou, China.
108. Novel Strategies to Evaluate Drug Targets and Gene and Environment Interactions. 2015 WHI Investigator Meeting, Bethesda, MD
109. Obesity in the Women's Health Initiative: What is the role of genetics. 2015 WHI Investigator Meeting, Bethesda, MD
110. Epidemiology of Global Cardiometabolic Health: Past, Present and Future. Fuwai Hospital, Beijing Union Medical College, Beijing, China

111. Environmental Endocrine Disruptors, Endogenous Sex Hormones and Risk of Cardio-metabolic Disorders. Beijing University, Beijing, China
 112. Critical, Systematic, and Comprehensive Assessment of Medical Literature. Xian, China
 113. Ruijing Distinguished Speaker's Lecture: From sex steroids to dietary and environmental endocrine disruptors: Diabetes' sex axis and the important role of sex-hormone binding globulin in clinical risk stratification and interventions. National Center for Metabolic Disease Research and Ruijing Hospital, Shanghai, China
 114. Understand interactions between genetic and environmental determinants to control the chronic disease epidemic of our time: incorporating genetic and biochemical markers for risk assessment. Chinese Center for Disease Control and Prevention, Beijing, China
 115. Symposium Speaker: Assessing CV therapeutic targets using genomics and epidemiology. 18th China Heart Congress, Beijing, China
 116. Understand and improve cardiometabolic health of human population. Zhejiang University Medical School, Hangzhou, China
 117. Incorporating systems biology into observational and interventional studies to excavate and understand gene-diet interactions. USDA Human Nutrition Research Center on Aging, Tufts University.
 118. Pathways analysis of genomic drivers for cardiometabolic outcomes. AHA Scientific Sessions, Orlando, FL
 119. Plenary Speaker: Recent advances in translational sciences of cardiometabolic Health, 19th Scientific Meeting of the Chinese Diabetes Society, Suzhou, China
 120. Endocrine Grand Round, New Strategies in Studying Molecular Markers for Cardio-metabolic Health, Chinese University of Hong Kong (CUHK) Faculty of Medicine and Prince of Wales Hospital, Hong Kong, China
- 2016:**
121. Symposium Speaker: Biomarkers for cardiometabolic health, South China Heart Congress (SCC), Guangzhou, China
 122. Plenary Speaker: Ending coronary heart disease by 2050. South China Heart Congress, Guangzhou, China
 123. XIV International Magnesium Symposium: Magnesium Supplementation and Counseling on Glycemic and Genomic Outcomes Among Overweight Pregnant Women, Rome, Italy
 124. 34th International Symposium on Diabetes and Nutrition: Genome-wide and candidate strategies in assessing potential metabolic therapeutic targets and gene x diet interaction along the insulin signaling and adipogenesis pathways. Prague, Czech Republic
 125. Invited Speaker (Medicine Grand Round): New strategies in assessing potential metabolic therapeutic targets and gene x diet interaction Grand Round, Department of Medicine, University of Federico II Naples, Italy
 126. Improving global cardiometabolic health: An epidemiologist's perspectives on prediction, precision, prevention, personalized, population, and policy; Faculty of Medical Science, Anglia Ruskin University, Cambridge, UK
 127. Incorporating 6P analytics to improve global health: prediction, precision, prevention, personalized, population, and policy. World Life Science Conference. Beijing, China
 128. Tracing environmental influences from modern to ancient to improve global cardiometabolic health. Joint Seminar of the Departments of Pharmacology and Medicine. The University of Hong Kong, Hong Kong.
 129. Promoting methodological rigor in clinical research for physician-scientists. Department of Endocrinology, Guangdong General Hospital/Guangdong Academy of Medical Sciences
 130. Award Symposium Mentoring young investigators of diverse background. Council on Functional Genomics and Translational Biology, American Heart Association Annual Scientific Conference, New Orleans.

2017:

131. Understanding gene-environmental interaction to improve cardio-metabolic health. Icahn School of Medicine at Mount Sinai, NY
132. Plenary Speaker: Intake of Dietary Carbohydrates for Cardio-metabolic Health. Guangzhou Nutrition Symposium, Guangzhou, China
133. Plenary Speaker: Whole Grains and Health: A Matter of Quality. China Nutrition Congress, Beijing, China
134. Plenary Speaker: From sex steroids to environmental endocrine disruptors: diabetes' sexy axis and its binding barometer for clinical risk stratification and intervention. American Epidemiology Society, New York.
135. Keynote Speaker: Understanding gene-environment interaction to improve both individual and population health. 13th Chinese Nutrition Congress. Beijing, China.
136. Plenary Speaker: Dietary Carbohydrate and Cardiovascular Health: A matter of quality. 13th Chinese Nutrition Congress. Beijing, China.
137. Plenary Speaker: Becoming an independent scholar in biomedical sciences and public health. An evening symposium at the 13th Chinese Nutrition Congress. Beijing, China
138. From molecules to populations, applying 6-P analytics to curb the epidemics of our time. Institute of Environmental Health, Chinese Center for Disease Control (CDC). Beijing, China
139. Why should endocrinologist and epidemiologist be the core and clues for the practice of precision, translational, and integrative medicine in a major academic medical center? Guangdong General Hospital and Guangdong Academy of Medical Sciences, Guangzhou, China.
140. Plenary Speaker: Diabetes' Sexy Axis and Implications for Improving the Health Effects of Dietary Carbohydrate by Sex. 3rd International Carbohydrate Quality Consortium (ICQC) Meeting, Rome, Italy
141. Keynote Speaker: Mendelian Randomization, Molecular Mediation, and Prediction for Complex Diseases in Diverse Populations: A paradigm to improve drug development and nutrition intervention. Chinese Academy of Biological Sciences, Shanghai, China
142. The 116th Dr. Norman Bethune Memorial Lectureship, Causal Inference in Clinical Research. Guangdong General Hospital and Guangdong Academy of Medical Sciences, Guangzhou, China

2018:

143. Keynote Speaker: How can we end the epidemics of cardiometabolic diseases: Some thoughts to integrate prevention and treatment paradigms for optimal health of individuals and populations following 6P-3G-4I. 20th South China International Congress of Cardiology (SCC), Guangzhou, China
144. Plenary Speaker: How to interpret the 2017 AHA/ACC updated guideline for hypertension control, Special Symposium organized by the Chinese Medical Chapter of Hypertension, at the 20th SCC, Guangzhou, China
145. Biomarker-calibrated total sugars intake and risk of obesity-related cancer in the Women's Health Initiative Observational Study. American Society for Nutrient. Boston, MA
146. Ending the epidemics of cardiometabolic diseases: how far we have come, and how much more we need to do. 106th Tongji Medical Forum, Wuhan, China.
147. Ending the epidemics of cardiovascular diseases: time is now to integrate both population and individual strategies for prevention. The Chinese CDC. Beijing, China.
148. Plenary Speaker: Some thoughts about developing an integrative framework for prevention to end the No.1 killer epidemics of our time. Guangdong society of cardiology annual meeting. Guangzhou, China.

149. Speaker and Discussion Leader: Understanding genetics, epigenetics, and gene-diet interaction to improve health outcomes. Gordon Conference on Epigenetics of Diabetes and Relevant Metabolic Outcomes. Hong Kong, China
150. Plenary Speaker/Chair: Nature vs. Nurture, Causal Inferences on Health Outcomes across Lifespans and Generations: Has Anyone Seen the Marriage? China Heart Congress. Beijing, China
151. Nutrition and Human Health: A 21st Century Agenda. Hongkong Polytechnic University, Hongkong, China
152. Plenary Speaker: 1) Dietary Carbohydrates and Cardiometabolic Health with Emphasis on Biomarkers and Genetics Interaction. 2) Improve Carbohydrate Quality for Better Health. 36th International Diabetes and Nutrition Symposium European Diabetes and Nutrition Group. Opatija, Croatia
153. Plenary Speaker: Cardiometabolic Health in the 21st Century: A Global Agenda. At the University at Buffalo International Week. Buffalo, NY
154. How to Communicate Effectively in Preventive Cardiology. Cardiology 365.net

2019:

155. Improving Global Cardiometabolic Health: Opportunities & Challenges in the 21st Century. Cardiology Grand Rounds. Rhode Island Hospital, RI
156. Speaker and symposium chair. Sex-hormones and Their Binding Protein (SHBG) in Clinical Risk Stratification and Intervention: Ready for Primetime. 21st South China Cardiology Congress. Guangzhou, China
157. Plenary Speaker: Improving Global Cardiometabolic Health in the 21st Century: Why, What, and How? 21st South China Cardiology Congress. Guangzhou, China
158. Speaker and symposium chair. Clinical Research Methodology in Cardiovascular Medicine: Rationale and Strategies. 21st South China Cardiology Congress. Guangzhou, China
159. The Why, How, and What of Global Cardiometabolic Health. Lanzhou University, Lanzhou, China
160. Improving Global Cardiometabolic Health: Challenges and Opportunities in the 21st Century. HUST-Brown Day, Wuhan, China
161. Keynote. Dietary Carbohydrates and Health – Moving Forward with a Century of Epidemiological Observations and Metabolic Experiments; Dietary Carbohydrates and Health Outcomes: A matter of quality interactions. The 14th China Nutrition Congress and the 11th Asian Pacific Conference on Clinical Nutrition, Nanjing, China.
162. Plenary Speaker. Nutritional Endocrine Disruptors, Sex Differences, Sex-Hormone Binding Globulin and Cardiometabolic Health: A New Diet-Heart Hypothesis in the 21st Century. The 14th China Nutrition Congress and the 11th Asian Pacific Conference on Clinical Nutrition, Nanjing, China.
163. Advancing Global Cardiometabolic Health: Why, What, and How? Beijing University School of Public Health, Beijing, China.
164. Ending the Epidemics of Cardiovascular Disease in the 21st Century. Asian Heart Congress, Shenzhen, China
165. Ending the Epidemics of Cardiovascular Disease, Zhengjiang University, Hangzhou, China
166. Sexy Axis in Cardiometabolic Health, Zhejiang University Second Affiliate Hospital, Zhejiang, China
167. What and How Should We Eat for Optimal Health, The 8th Guangdong Nutrition Society Conference, Guangzhou, China
168. Global Cardiometabolic Health: A 21st Century Agenda, Guangzhou, China Diet, Physical Activities, and Health. Sichun Agriculture University, Chengdu, Sichun, China

169. Precision Nutrition: Past, Present, and Future. Hongkong PolyTechnic University, Hongkong, China

2020:

170. A vision for cardiovascular research in diverse populations. NHLBI Intramural Program, Bethesda, MD

171. Novel risk factors for cardiometabolic risk stratification, NHLBI, NIH, Bethesda, MD

172. Risk factors for COVID-19 and Diabetes. The International COVID19 and Diabetes Summit. San Francisco, CA

173. Keynote Speaker. Dietary carbohydrates and health outcomes: A matter of quality. The 8th Nutritional Congress of Nutritional Oncology (NCNO), Beijing (virtual), China

174. Diabetes and Obesity Scientific Interest Group, the NHLBI WHI (virtual), Providence, RI

175. Diet, microbiota, and chronic diseases, Barilla Foundation for Food & Nutrition, Parma (virtual), Italy

2021:

176. Dietary Carbohydrate Quality and Health, 25th Chinese Nutrition Society Forum, Beijing (virtual), China

177. Diets as environmental endocrine disruptors in relation to cancer risk. Chinese Oncology and Nutrition Society Annual Meeting (Virtual), Beijing, China

178. Metals and Cardiometabolic Health: Toxic and Essential. University of São Paulo (USP) Medical School and Hospital Das Clinicas São Paulo, São Paulo, Brazil

179. Current Status and Future Direction in Global Cardiometabolic Health. Universidade Federal de São Paulo (UNIFESP), São Paulo, Brazil

180. Environmental Metals, dietary minerals, and cardiometabolic outcomes. The Federal University of Pernambuco (UFPE), Recife, Brazil

2022:

181. Keynote Speaker: Integrative Approach for Complex Diseases Prevention and Management and Beyond, Hongkong, China (Virtual)

182. Invited Speaker: Nutritional Classification of Dietary Carbohydrates. The Institute for the Advancement of Food and Nutrition Sciences (Virtual)

183. Invited Speaker: Improving Global Cardiometabolic Health: What, why, and how. Department of Epidemiology, UCSD, San Diego, CA (Virtual)

184. Keynote Speaker: Molecular Epidemiology of Complex Diseases: From Risk Factors to Causal Pathways for Prevention with Precision. Complex Disease Prediction, Prevention, Management and Beyond, FASEB Catalyst Conferences (Virtual)

185. Plenary Speaker: Molecular Epidemiology of Complex Diseases: From risk factors to an integrative multi-level causal framework for Prevention, South China Cardiology (SCC) (Virtual)

186. Plenary Speaker: An Integrative Multi-levels Framework for Causal Inference to Improve Cardiometabolic Health and Personalized Prevention. The 5th World Hypertension League Congress (Virtual)

187. Plenary Speaker: Weight Management, Micronutrients, and Supplements in Diabetes. The 39th Annual Symposium of the Diabetes Nutrition Study Group (DNSG), Athen, Greece.

188. The CAPES/PRINT Fellowship award in preventive medicine (3 lectures): the Universidade de Sao Paulo (USP), Universidade Federal de Sao Paulo (UNIFESP), and Universidade Federal de Pernambuco (UFPE), Brazil.

189. Invited Speaker: Improving global cardiometabolic health: challenges and opportunities. School of Medicine, University of Missouri Health Science Center, Columbia, MO

2023:

190. Keynote Speaker: Improving global cardiometabolic health: my journey as a “disease detective” into the 21st century. Missouri Forward Initiative, University of Missouri, Columbia, MO
191. Invited Speaker: Improving global cardiometabolic health: challenges and opportunities. University of California, Irvine (UCI), Irvine, CA.

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Original Research Reports

1994~1999:

1. **Liu S**, Quenemoen LE. Epidemiologic Notes and Reports: Tornado disaster - Alabama, March 27, 1994. Morbidity and Mortality Weekly Report (MMWR). 1994; 43:356-59.
2. **Liu S**, Serdula MK, Williamson DF, Mokdad AH, Byers T. A prospective study of alcohol intake and change in body weight among US adults. *Am J Epidemiol*. 1994; 140(10):912-20. doi:10.1093/oxfordjournals.aje.a117179.
3. Nasca PC, **Liu S**, Baptiste MS, Kwon CS, Jacobson H, Metzger BB. Alcohol consumption and breast cancer: estrogen receptor status and histology. *Am J Epidemiol*. 1994; 140(11):980-8. doi:10.1093/oxfordjournals.aje.a117205.
4. Choi HW, Breman JG, Teutsch SM, **Liu S**, Hightower AW, Sexton JD. The effectiveness of insecticide-impregnated bed nets in reducing cases of malaria infection: a meta-analysis of published results. *Am J Trop Med Hyg*. 1995; 52(5):377-82. doi:10.4269/ajtmh.1995.52.377.
5. **Liu S**, Quenemoen LE, Malilay J, Noji E, Sinks T, Mendlein J. Assessment of a severe-weather warning system and disaster preparedness, Calhoun County, Alabama, 1994. *Am J Public Health*. 1996; 86(1):87-9. doi:10.2105/ajph.86.1.87.
6. **Liu S**, Serdula MK, Byers T, Williamson DF, Mokdad AH, Flanders WD. Reliability of alcohol intake as recalled from 10 years in the past. *Am J Epidemiol*. 1996; 143(2):177-86. doi:10.1093/oxfordjournals.aje.a008727.
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9. **Liu S**, Siegel PZ, Brewer RD, Mokdad AH, Sleet DA, Serdula M. Prevalence of alcohol-impaired driving. Results from a national self-reported survey of health behaviors. *Jama*. 1997; 277(2):122-5. doi:10.1001/jama.277.2.122.
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11. **Liu S**, Stampfer MJ, Hu FB, Giovannucci E, Rimm E, Manson JE, Hennekens CH, Willett WC. Whole-grain consumption and risk of coronary heart disease: results from the Nurses' Health Study. *Am J Clin Nutr*. 1999; 70(3):412-9. doi:10.1093/ajcn/70.3.412.

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