

CURRICULUM VITAE

Xinguang “Jim” Chen, MD, PhD, FACE
Professor of Epidemiology

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EDUCATION:

Ph.D. in Biostatistics and Epidemiology, 1993, University of Hawaii, Honolulu, HI, USA
M.P.H. in Population Studies, 1992, East-West Center/University of Hawaii, Honolulu
M.P.H. in Biostatistics (3-year program), 1987, Tongji Medical University, Wuhan, China
M.D. in Preventive Medicine, 1982, Wuhan Medical College, Wuhan, China

POSTGRADUATE & OTHER TRAINING:

Leadership Workshop (October to November 2012), Wayne State University, Detroit, Michigan, USA
Grantsmanship Workshop (August 2003), Wayne State University, Detroit, Michigan.
Excellence in English Oral Presentation (July to September 2001), Department of Drama and Performing Art, University of Southern California, Los Angeles, California
Structural Equation Models and Mixed Growth Models in Health Behavioral Research (April to May 2001), University of California at Los Angeles, Los Angeles, California
Postgraduate Program of International Health (April to July 1989), WHO Zagreb University Collaboration Center, Zagreb, the former Yugoslavia
Mental Health Research Workshop (May to July 1988), Institute of Mental Health, the Chinese Academy of Science, Beijing, China

FACULTY APPOINTMENTS:

2014 ~ present: Professor with Tenure, University of Florida College of Public Health & Health Professions and College of Medicine, Gainesville, FL, USA
2013 ~ 2017: Adjunct Professor, Wayne State University School of Medicine, Detroit, MI
2010 ~ 2013: Professor, Tenured, Wayne State University School of Medicine, Detroit, MI
2004 ~ 2009: Associate Professor, Wayne State University School of Medicine, Detroit, MI
2000 ~ 2003: Assistant Professor, University of Southern California, Los Angeles, CA
1997 ~ 1999: Research Associate, University of Southern California, Los Angeles, CA
1994 ~ 2000: Associate Professor, Tongji Medical University, Wuhan, China
1994 ~ 1997: Chair, Department of Biostatistics; Director, PhD Program and MPH Program, School of Public Health, Tongji Medical University
1987 ~ 1989: Assistant Professor, Social Medicine Institute, Tongji Medical University

OTHER PROFESSIONAL APPOINTMENTS:

- 2014~present: Graduate Faculty, University of Florida Graduate School, Gainesville, FL, USA
- 2012~present: Chair Professor of the LuoJia Scholarship, Wuhan University, Wuhan, China
- 2011~2014: Guest Professor, Department of Epidemiology and Biostatistics, Sun Yet-Sen University College of Medicine, Guangzhou, Guangdong Province, China
- 2004~present: Merit Professor and Senior Scientific Advisor, Wuhan Center for Disease Prevention and Control, Wuhan, China
- 2004~present: Guest Professor, Hainan Medical College, Hainan Province, China
- 2002: Senior Associate, Abt Associates Inc, Bethesda, Maryland, USA

PROFESSIONAL SOCIETIES:

- 2010~Present: Member, Society for Chaos Theory in Psychology & Life Sciences
- 2005~Present: Member, Association for Psychological Science
- 2005~2012: Member, Society for Epidemiologic Research
- 2000~2003: Member, Society for Research on Nicotine and Tobacco
- 1998~present: Member, American Public Health Association
- 1990~present: Member, American Statistical Association (lifetime member since 2017)

HONORS/AWARDS:

- 2013~present: No-Deadline Proposal Submission Award, the National Institute of Health
- 2013: Excellence Awards for Research on Social Capital, Social Inclusion and Rural Migrants' Health, Hubei Population Studies Association, China
- 1989~1993: U.S. East-West Center Graduate Scholarship Awards (four years in a row)
- 1987: The Best Graduate Students Awards, Tongji Medical University
- 1978~1982: Excellent Medical Student Award, Wuhan Medical College (5 years in a row)

SERVICES:

University of Florida (UF)

- 2017~present: University Faculty Senator, representing College of Medicine and College of Public Health and Health profession
- 2014~present: Tenure and Promotion Committee Member, College of Public Health and Health Profession and College of Medicine
- 2014~present: Members for the Faculty Committee, the Curriculum Committee, the Admission Committee, and the Seminar Committee, Department of Epidemiology
- 2014~present: Chair, the International Students Committee, College of Public Health and Health Profession
- 2014~present: Graduate Student Adviser, PhD Program in Epidemiology and PhD Program in Biostatistics, College of Public Health & Health Professions and College of Medicine
- 2014~present: Graduate Student Adviser, MPH Program, College of Public Health & Health Professions
- 2014~present: Marshal for Graduation Ceremony

Wayne State University (WSU)

- 2007~2014: Search Committee Member, School of Medicine
- 2013~2014: Associate Director, the PhD Program of Health Behavior and Promotion, School of Medicine
- 2013~2014: PhD Program Committee, Department of Psychology
- 2011~2013: Academic Councilor for Junior Faculty Research, Department of Pediatrics
- 2010~2013: Fellowship Scholarly Oversight Committee Member for Residents and Fellows, Department of Pediatrics/Children's Hospital of Michigan
- 2010: Distinguished presenter, Pediatric Epidemiology, Professional Academic University-wide Development Seminar Series of Epidemiologists
- 2008~2011: Member, Environment Health Science Center in Molecular and Cellular Toxicology (Environmental Pediatric Research Core)
- 2008 & 2010: Judge, Pediatric Resident Finalist Presentation for Sheldon L Brenner Resident Research Award, Department of Pediatrics, Wayne State University
- 2007~2008: Coordinator, Weekly Methodology Seminar series, Pediatric Prevention Research Center
- 2007: Academic Evaluator, Presentations and final competition of medical residents and fellows for the Sheldon L. Brenner Resident Research Award and the Wolf W. Zuelzer Fellow Research Award, Children's Hospital of Michigan
- 2004~2013: Member and presenter, Wayne State University/Henry Ford Health Systems' Statistical Journal Club
- 2004~2006: Member, Wayne State University Human Investigation Committee.

University of Southern California (USC)

- 2002 ~ 2007: Project leader and International Project Coordinators, the USC Transdisciplinary Tobacco Use Research Center
- 1996 ~ 2003: Project Coordinator, Tobacco Use Prevention among Adolescents across the Pacific Rim: US-China Collaboration Project at USC

National and International

- 2018~present: Public Health Expert, Bureau of Foreign Experts Affairs, Yunnan Province, China
- 2015~present: Chair, Advisory Committee, the Mid-Yangtze River Region Public Health Collaboration Center (four provincial capital cities as participants are Changsha, Hefei, Nanchang and Wuhan), China
- 2015: Governor Council Nominee, the Applied Public Health Statistics Section, the American Public Health Association
- 2014~present: Advisory Committee Member, WHO Collaboration Center with People's Health Publication House, Beijing, China
- 2013~present: Standing Member (foreign), the Editorial Board of the Textbook for Global Health Science, People's Health Publication House, Beijing, China
- 2013, 2014: Chair Nominee, the Applied Public Health Statistics Section, the American Public Health Association

- 2012~2013: Councilor, American Public Health Association Applied Public Health Statistics Section
- 2012~ present: Co-Chair, the Advisory Committee for the Establishment and Development of Global Health Center for teaching and research, Wuhan University, China
- 2012~2013: Academic Council Member, Applied Public Health Statistics Section, American Public Health Association
- 2003~2008: Advisor and China Expert, the Nebraska Prevention Center for Alcohol and Drug Abuse at the University of Nebraska, Lincoln, NE
- 2000~2002: Advisor (Behavioral Health Sciences), the Asian Youth Center Los Angeles Branch, Los Angeles, CA
- 1999~2008: Member, the U.S. National Transdisciplinary Tobacco Research Centers (TTURC) Partnership
- 1997~present: Public Health Advisor, Wuhan Public Health and Family Planning Committee, Wuhan, China

Conference Chairing

- 2017: Leader, Capturing the quantum changes in human behavior: Innovative solutions to and practical application of the cusp catastrophe modeling. Symposium presented to the 29th APS Conference, May 26-28, 2017, Boston
- 2015: Co-chair, Innovative methods for analyzing public health data, the 143rd Annual Conference of the American Public Health Association, Chicago
- 2014: Chair, the Convention of Development in Global Health and Public Health Education, Wuhan University Global Health Institute, Wuhan, China
- 2013: Section Chair, Public and Global Health Education, the 45th Annual Conference of the Asian- Pacific Academic Consortium for Public Health (APACPH), Wuhan, China
- 2012: Moderator, Applied Public Health Statistics Section, the 140th Annual Conference of American Public Health Association

Academic Editorship

- 2017~present: Associate Editor-In-Chief, *Global Health Journal*, a newly established peer-reviewed English journal hosted by the People's Health Publication House, Inc. Beijing China
- 2015~present: Executive Editor-In-Chief, *Global Health Research and Policy*, a peer-reviewed English journal partnered with BMC series (lunched with my initiation and advocacy to enhance global health at Wuhan University, China)
- 2014~present: Standing member, Textbook Editorial Committee, *Global Health Sciences*, the People's Health Publication House, Inc. Beijing China
- 2014~present: Editor-In-Chief (Foreign), Textbook series on *Methodology for Global Health*, the People's Health Publication House, Inc. Beijing China
- 2014~2016: Guest Editor, *Current HIV Research: a Thematic Issue of Advanced Methods for HIV Research*
- 2014~2016: Academic Editor, *Plos One*
- 2007~2016: Associate Editor, *Journal of Child and Family Studies*

Invited Manuscript Reviewer for Academic Journals

1. Addiction
2. ADIS and Behavior

3. AIDS Care
4. AIDS Research and Treatment
5. American Journal of Epidemiology
6. American Journal of Public Health
7. American Journal of Preventive Medicine
8. American Journal of Health Behavior
9. British Medical Central (BMC)-Pregnancy and Child Birth
10. British Medical Central (BMC)-Public Health
11. British Journal of Medicine and Medical Research
12. California Journal of Health Promotion
13. CDC-Chronic Disease Prevention
14. Child Development and Research
15. Cochrane Reviews
16. Drug and Alcohol Dependence
17. European Journal of Public Health
18. Global Health Research and Policy
19. Health Education and Research
20. Health Policy
21. Health Promotion International
22. Health Psychology and Behavioral Medicine
23. International Journal of Psychological Studies
24. Journal of Adolescent Health
25. Journal of Child and Family Studies
26. Journal of Child Psychology and Psychiatry
27. Journal of Health Care for the Poor and Underserved
28. Journal of Health Communication
29. Journal of Health Psychology
30. Journal of Pediatrics
31. Journal of Health Population and Nutrition
32. Journal of Public Health
33. Journal of Social Science and Medicine
34. Journal of Studies on Alcohol
35. Lancet
36. Neurobehavioral HIV Medicine
37. Nicotine and Tobacco Research
38. Personality and Individual Differences
39. Plos One
40. Prevention Science
41. Preventive Medicine
42. Preventive Medicine Reports
43. Psychology of Addictive Behavior
44. Substance Use Treatment, Prevention and Policies
45. Social Indicators Research
46. Sahara Journal
47. Tobacco Control
48. Vaccine
49. Youth and the Society
50. World Population and Health

Grant Proposal Review

- 2017: Five NIH Special Study Sections: ZAI1 AL-A (M1) for U grants, ZRG1 AARR-G (02) M for HIV-related epigenomic and transcriptomic research grants, and ZRG1 F17 M20L (twice in a year) for career development grants; and ZRG1 BEST-w (55) R for FDA regulatory science research grants.
Invited external reviewer, Grants to the Canada Excellence Research Chair Program
- 2016: Two NIH Special Study Sections (five sessions): AARR F-92 for career training grants and ZRG1 OTC-B55 for FDA sponsored tobacco research grants
- 2015: Five NIH Special Study Sections: (1) ZRG1 AARR-G 58, (2) ZRG1 AARR-M 50, (3) ZRG1 OTC-B (55) R, (4) ZRG1 F17-M (20) L and (5) ZRG1 AARR-G (91) S. Invited as expert on training grants (i.e., K and F), research on tobacco use, HIV prevention, and modeling of HIV epidemic and eradication of HIV latent reservoir.
- 2014: Four NIH Special Study Sections (1) ZRG1 AARR-K; (2) ZRDG1 AARR-G; (3) ZRG1 AATT-F; and (4) ZRG1 RPHB-W53R. Invited as expert in methodology for research design and statistical analysis on tobacco and HIV related risk behaviors and prevention intervention research.
- 2013: Two NIH and FDA joined Special Study Sections (1) ZRG1 HDM-Q and (2) ZRG1 BDCN-A. Invited as experts on tobacco use prevention and advanced statistical analysis
- 2012: NIH BSCH Study Section, Regular Review Cycle, Spring Session (March, Los Angeles), Summer Session (July, Washington D.C.), and Fall Session (October, Washington DC)
NIH Special Study Section ZRG1 AARR (G92), Spring Session (March, Los Angeles), Summer Session and Fall Session (Washington DC)
- 2011: NIH/BSCH Special Panel ZRG1 AARR-G, HIV/AIDS Treatment Adherence Applications
NIH/BSCH Special Panel ZRG1 AARR-G 10 B, Small Business grants regarding HIV/AIDS Innovative Research Applications
- 2011: Hong Kong Food and Health Bureau, Research Council, Funding for Infectious Disease Control and Health and Health Services Funding
- 2010: NIH/NICHD Social Determinants of Health (R01) Review Panel on HIV related research
- 2010: Hong Kong Food and Health Bureau, Research Council, Funding for Infectious Disease Control and Health and Health Services Funding
- 2009: Wayne State University Undergraduate Research and Creative Projects (a school- wide program that provides funding support for student-initiated and faculty- mentored scientific research projects)
- 2009: NIH National Center on Minority Health and Health Disparities, Special Emphasis Panel for application in response to American Recovery and Reinvestment Act (ARRA)
- 2009: NIH Special Emphasis Panel 09 ZRG1 on Social Determinants of HIV/AIDS in response to American Recovery and Reinvestment Act (ARRA).
- 2008: Hong Kong Research Fund for the Control of Infectious Diseases (Review a proposal with controversial scores to make final funding decision)

- 2008: Hong Kong Health and Health Services Research Fund (Tobacco Control Section)
- 2006: The Minnesota Partnership for Action against Tobacco (MPAAT, the statewide tobacco founding agency providing financial supports to researchers on tobacco control and evaluation)

Other Professionally Related Services

- 2013: Invited abstract reviewers for the 45th Annual Conference of the Asian and Pacific Academic Consortium of Public Health, Wuhan, China
- 2008 ~ 2009: Invited abstract review and selection for the 2009 Annual Meeting of the Society for Epidemiological Research
- 2005: Invited abstract review and selection for 2005 Annual Meeting of the Society for Prevention Research

TEACHING:

Schools

- 2014~present: University of Florida, Gainesville, FL, USA
- 2003~2013: Wayne State University, Detroit, MI
- 1997~2002: University of Southern California, Los Angeles, CA
- 1994~1996: Tongji Medical University, Wuhan, China
- 1987~1989: Institute of Social Medicine, Wuhan Medical College, Wuhan

Courses

Graduates and Undergraduates

- 2014 ~ PHC 7017, Advanced Epidemiology Methods III (graduate students)
- 2016: PHC 6011, Advanced Epidemiology Methods II (graduate students)
- 2015 ~ PHC 6943, Social Epidemiology (graduate students, guest teacher)
- 2014 ~ 2016 PHC 7934, Seminar Series I, Past, Present and Future of Epidemiology (graduates)
- 2011: ANT 6500, Social capital and HIV/AIDS epidemic (graduates)
- 2008: FPH 7790, SAS and its application in epidemiological research (graduates)
- 1998: Alternative medicine and health care (undergraduates and graduates)
- 1997: Social determinants of health (undergraduate course)
- 1993 ~ 1996: Health Statistics (MPH and PhD Students)

Postdoctoral Trainees, Faculty and Visiting Scholars

- 2014~ Seminars, work-in-progress meeting and personal one-on-one meeting with focus on both methodologies and visions, including (1) causal inference with mediated moderation and moderated mediation in causal analysis, (2) extracting longitudinal information from cross-sectional data, (3) modeling quantum change in health status and behavior, (4) mixed effects modeling methods for longitudinal data analysis, (5) methods for information diffusion and informational correlation analysis, (6) GIS/GPS-assisted random sampling, (7) social capital and health, (8) construal-level theory and its application in improving reliability of self-reported data, (9) Geographic areas-based rate and its use in study spatial distribution, (10) epidemiological strategies and methods for secondary data analysis, (11) meta- and mega-analysis, (12) writing winning proposals, (13) manuscript preparing and

journal selection for publication, (14) how to address review comments and critiques for successful publication, (15), critical manuscript review for academic journals, (16) development of collaborative relationships, (17) evidence/information-based selection of research areas and careers.

- 2003 ~ 2013: Research Design and Advanced Analytical Methods for Behavioral Epidemiologic Research, Weekly Methodology in Pediatric Prevention Research Center for students, postdoctoral trainees, and visiting scholars. Key topics: (1) Methods for assessment of behavioral intervention through randomized controlled trials; (2) Solomon Design and its use in behavioral intervention research; (3) Dealing with the “effect of regression to the mean” using regression method: a geometric exploration and practical application (4) Mediation, moderation, and mediated moderation effect modeling analysis with application in the analysis of the relationship between Core Human Values and health risk behavior (5) Prediction analysis to estimate disease incidence rates in children with perceived prevalence data from adults; (6) Mixed effect modeling analysis for cluster randomized trials with repeated measurement data: Method, SAS program and application to real data; (7) Nicotine metabolic genes and changes in smoking behavior during pregnancy (8) Age-period-cohort (APC) modeling and historical epidemiology in diseases and health behaviors; (9) Probability Discrete Event System (PDES) models for modeling nonlinear and quantum dynamics of behavior change; (10) Group-based developmental trajectory analysis in behavioral science; (11) Quantum change and chaotic modeling of health risk behavior and evaluation of randomized trials; (12) Solving partially observed systems using the Moore-Penrose generalized inverse matrix system theory; (13) solving high dimensional nonlinear deterministic model using statistical methods.
- 2004 ~ 2009: Advanced statistical modeling methods (age-period-cohort modeling, mixed effects modeling, latent class modeling), Wayne State University Biostatistics Journal Club

Residents/Fellows in clinical medicine

- 2009: Research on gene-ETS interaction with regard to child lung function with focus on design and result interpretation and reporting for pediatric residents, 22 participants.
- 2005 ~ 2006: Introduction to epidemiology and research design for pediatric residents and fellows, 20 participants
- 2004 ~ 2005: Gene-environmental interaction in clinical research—design and data analysis for pediatric residents and fellows, 25 participants
- 2004: Introduction to clinical epidemiology and its application to pediatric dental residents/fellows
- 2003 ~ 2007: Clinical epidemiology and gene-environmental interaction, two sessions per year, for pediatric residents and fellows, 20 to 30 participants per session

Mentorship

Current PhD Students

- 2016 ~ now: Sadaf Milani, PhD student in Epidemiology, Co-Mentor and Dissertation Committee Member, focus on research design, measurement modeling and advanced methods on age-period-cohort analysis.

- Verlin Joseph, PhD student in Epidemiology, Dissertation Committee Member
Liu, Yi-yang, PhD student in Epidemiology, Co-Mentor and Dissertation Committee Member, focus on advanced methods for polydrug use
Min Jie, PhD student in Epidemiology, Academic Advisor and Dissertation Committee Member
Ayodeji Otufowara, PhD student in Epidemiology, Academic Adviser and Dissertation Committee Member.
- 2015 ~ now: Kai Wang, PhD student in Epidemiology, Primary Advisor, Chair of Dissertation Committee, focus on epidemiology of prostate cancer to test a grant hypothesis I proposed in 2015: Quicker-than-normal age-related decline in testosterone is the primary risk for prostate cancer.
Yu-nan Xu, PhD student in Epidemiology, Primary Advisor, Chair of Dissertation Committee, focus on tobacco exposure and cardiovascular risk among persons living with HIV using data from MACS and WHIS.
- 2014 ~ now: Jacob Ball, PhD student in Epidemiology, Primary Advisor and Chair of Dissertation Committee, focus on modeling of infectious diseases with advanced methodology and big data, secured fellowship grant from the Department of Defense to complete PhD training and dissertation research.

Graduated PhD Students

- 2016 ~ 2017 Kim Jung, PhD student in Nursing, Co-Advisor and Dissertation Committee Member, focus on advanced analysis of stress, pain and pressure sores among hospitalized patients.
- 2014 ~ 2017: Jing Liu, PhD candidate in Biostatistics, Co-Advisor and Dissertation Committee Member, focusing on advanced methods to improve precision in statistical inference.
Natalie Kelso, PhD candidate in Epidemiology, Co-Adviser and Dissertation Committee Member, focus on (1) alcohol use and cardiovascular disease risks among people living with HIV, (2) prepare proposal to obtain NIH training fund (F award) for dissertation research, (3) advanced research designs and methods for retrospective analysis of longitudinal cohort data.
- 2014 ~ 2016: Chukwuemeka Okafor, PhD student in Epidemiology, Co-Adviser and Dissertation Committee Member, focus on (1) marijuana exposure and neurocognitive impairment among people living with HIV, (2) prepare proposal to win NIH training fund (F award) for dissertation research, (3) advanced research designs and methods for retrospective analysis of longitudinal cohort data.
Jingnan Zhang, PhD student in Biostatistics, Co-advisor and Dissertation Committee Member. Focus on disease surveillance and forecasting using spatiotemporal modeling methods.
- 2014: Stephanie Moody-Geissler, PhD student in Epidemiology. Primary Advisor (quit the program after one semester due to personal issues)
- 2012 ~ 2014: Rhiana Wegner, PhD candidate, Research Assistantship, with focus on advanced measurement modeling, structural equation modeling, social capital and health, manuscript development.
- 2009 ~2014: Veronica Koci, PhD student, Co-Advisor and Dissertation Committee Member, providing direct guidance and supervision on data processing, statistical analysis, result interpretation, manuscript development, dissertation

development and defense.

2006 ~ 2007: Phebe Lam, PhD student: Assisting her in training and dissertation research with focus on questionnaire development for adolescent tobacco survey in Hong Kong to collect data and methods for data analysis.

2005 ~ 2006: Mathew Cole, PhD student: Assisting him in training on advanced statistical modeling and analysis, including structural equation modeling and latent growth modeling analysis for dissertation research.

Master Degree Students

2017 ~ now: Patrick E. Rizk, MPH student from Lebanon, advising on course work, research project and career development.

2017: Yichen Pan, MPH student, advising on G-rate and application in studying geographic distribution of prostate cancer in the United States.

2014 ~ now: Kaitlyn Jacobs, MPH student, advising on course work, research project and career development.

2014 ~ 2016: Andrew Schultz, MPH student, advising on course work and career development

2014 ~ 2016: Shuang Wang, MPH Student, advising on course work and career development. She just secured a FDA job in Dec 2017.

2014 ~ 2016: Wen Huang, MPH student, advising on course work and career development

2014 ~ 2016: Mengxiong Wang, MPH student in epidemiology. Advise her to conduct epidemiological research to examine the relationship between maternal neurotism and low birth weight in children.

2014: Yuanhui Wang, graduate with MPH in epidemiology. Transfer from volunteer to paid hourly research assistant. Working on data analysis and manuscript development for NIH funded projects.

2012 ~ 2014: Bin Yu, MPH in public health. Guiding and training to examine acculturation and acculturative stress among international students using measurement modeling method and structural equation modeling method. He is now on a PhD program at the Department of Epidemiology, University of Florida

2012 ~ 2014: Yang Liu, MPH student. Provide guidance and training to investigate the relationship between acculturative stress and depression among international students using measurement modeling method and structural equation modeling method.

2009: Yuanjing Ren, MS in health services and administration. Provide guidance to her research on unplanned pregnancy and ETS exposure among children from low- income families living in urban center. The abstract of this study was presented orally at the 2009 APHA annual conference and the manuscript was submitted to Journal of Maternal and Child Health for publication.

2008 ~ 2009: Jana Thompkins, MS student in Health Informatics: Training and practice of comprehensive literature search using the topic of tobacco smoking among Chinese youth in China and abroad as an example.

2008 ~ 2009: Nikhil Khankari, MPH student: Provide guidance to career development in the public health fields and application for Ph.D. program; provide training on basic research skills, statistical analysis and manuscript development for publication. He was admitted to a PhD program on cancer epidemiology by the University of North Carolina, graduated in 2016 with PhD degree, now sever as a postdoc.

- 2008: Sushama Vale, MPH student: Work on how to use the statistical software SAS in analyzing data from medical and health service and research through a formal course of directed studies, including instruction, exercise, and practical project.
- 2007: Richard Melvin, MPH student: Reframe the study questions for analysis, data processing, statistical analysis and result interpretation for a project on the role of religiosity in crime prevention among African American youth.

Undergraduate students

- 2016 ~ 2017: Shumin Rui, undergraduate student in biologic engineering, provide assistance and supervision for her research on random pairing – Bootstrapping in assess the impact of medical marijuana laws on drug use behavior through information diffusion (she is now on MS program at Univ. Columbia).
- 2008 ~ 2009: Elias Boueiri, undergraduate student in biology: Provide guidance and training on project development and implantation, leading to his wining of the 2008 WSU Undergraduate Research and Creative Project Award to study nicotine dependence using video-taped data.

Postdoctoral Trainees

- 2015 ~ 2016: Qiang Zhang, self-funded post-doctoral trainee from Yunan CDC, China, receiving training on advanced design and methodology for HIV research and practices.
- 2015 ~ 2016: Yan Guo, postdoctoral trainee and co-Investigator, Social Capital and HIV risk behavior among rural migrants in China, hired by the project, and receive training by working on data analysis and manuscript development.
- 2014 ~ now: Yan Wang, Postdoctoral trainee. Hired to work on NIH funded projects to conduct data analysis and produce high quality manuscripts for peer-reviewed publications. She was promoted to the Research Scientist Assistant (equivalent to Assistant Professor) in April 2017, she is preparing for K-award now.
- 2012 ~ 2013: Peigang Wang, PhD, Wuhan University Global Health Center/School of Public Health, Wuhan, China. APC modeling for cohort analysis, structural equation modeling for behavioral study, social capital and mental health research. Dr. Wang secured a faculty position at Global Health Institute/School of Public Health, Wuhan University, China after postdoc training. He was promoted to Associate Professor in 2014 and Professor in 2017, he also secured funding from China NSF to study social capital and migrant health. In 2017, he was promoted to be the Provost Position at Wuhan University.
- 2012 ~ 2013: Juan Han, MD, PhD, Huazhong University of Science and Technology, Wuhan, China. Meta-analysis, structural equation modeling, social capital and adolescent health, being promoted to Associated Professor at Huazhong University of Science and Technology in 2013. She was promoted to Associated Professor in 2015 at Huazhong University of Science and Technology and secured extramural funding to study adolescent health and behavior.
- 2010: Maggie Lau, PhD, Hong Kong Institute of Education. Survival analysis and its application in describing age pattern of smoking onset, abstract/manuscript development for publication. In 2012, she secured a faculty position at Hang

- 2009: Kong City University is now preparing for promotion to associated professor. Qing Li, PhD, Skills on advanced analysis, result interpretation, manuscript development, and proposal preparation. She secured a faculty position in 2015 at Michigan State University with focus on maternal and child health.
- 2008: Jie Gong, M.D., Ph.D.: General research skills, data processing and advanced statistical analysis, manuscript development, submission and revision, abstract preparation, submission and application of traveling allowance for attending conferences. In 2009, Dr. Gong was promoted to the Depute Director of Wuhan CDC, China to oversee research and the prevention and control of chronic diseases for Wuhan, a city with a population of 10 million.
- 2007 ~ 2009: Qun Zhao, PhD, Nanjing University, China. General skills on data analysis, result interpretation, abstract and manuscript preparation, and application for traveling allowance for conferences. Have two papers published, attended several conferences with abstracts accepted and travel allowance to attend the Annual Meeting of the Society for Prevention Research in 2008
- 2007 ~ 2008: Liying Zhang, PhD, the Family Planning Committee of China. Use of statistical software SAS and research skills, discussion of social epidemiology and migrant health. In 2008, Dr. Zhang was promoted to faculty position at the Prevention Research Center, Department of Pediatrics.
- 2007 ~2008: Heather Janise, Ph.D.: Research methods, proposal development, funded project implementation, result interpretation, and manuscript development. In 2009, Dr. Janise has been recruited by East Michigan University as an Assistant Professor (tenure track).
- 2005 ~ 2007: Hongmei Yang, Ph.D, China CDC, Beijing. Research skills, statistical analysis and manuscript development for research related to HIV risk behaviors among rural migrants in China. In 2007, Dr. Yang secured the Senior Research Staff position at Population Services International, Inc.
- 2005 ~ 2006: Danhua Lin, Ph.D, Faculty of Beijing Normal University, Beijing, China. Research skills, writing research proposals, analytical methods and manuscript development for publication. In 2014, Dr. Lin was promoted to Full Professor at Beijing Normal University.
- 2004: Hui Liu, M.D., MPH, Basic skills for HIV/AIDS surveillance and survey research and HIV/AIDS epidemic. In 2006, Dr. Liu was promoted to a director position for the HIV/AIDS surveillance program at China CDC, Beijing, China.

Residents/Fellows

- 2012~2013: Dima Altaany, Pediatric fellow: development of numerical integral methods to computing series data on hypo and hyper-carbonization in very low birth weight infants and statistical analysis.
- 2010~ 2011: Mamatha Kambalaplli, Pediatric Fellow: Research design, assistance of IRB application, guidance for data collection and processing, statistical analysis for abstract development and manuscript preparation.
- 2010: Scot Lynn, Pediatric Resident: Research design to assess a program promoting pediatricians in providing nutritional consultation to patients.
- 2010: Ralph Salloum, Pediatric Fellow: Data analysis and preparation of abstract and manuscript for publication.
- 2010: Sarah J. Kizilbash, Pediatric Fellow; Development of measurement scales,

- including conceptualization and psychometric assessment; manuscript development for publication.
- 2009~2010: Swati Arya, Pediatric Fellow: Research design and data collection for a project to study the epidemiology of Kawasaki disease in the Detroit area.
- 2009~ 2011: Rahul Kaila, Pediatric Fellow: Research design and protocol review on a project to study post discharge adverse events related to procedural sedation in children.
- 2009~ 2010: Barbara Ann Oettgen, Pediatric Fellow: Research design, statistical analysis and data interpretation.
- 2008: Jeff Clark, Pediatric Resident: Research design and data analysis for a randomized trial of a resident training program.
- 2008 ~ 2011: Bhawana Arora, Pediatric Fellow: Research design and proposal development for a project to study the impact of high flow nasal cannula oxygen infusion on the pharyngeal pressure to improve the treatment of this method for Bronchiolitis.
- 2008 ~ 2012: Eric McGrath, Pediatric Fellow: Research design, protocol development, data processing, statistical analysis, result interpretation, and reporting for a project to investigate the role of ethanol lock in preventing intravascular device-related infection.
- 2007: Himalee Sabnis, Pediatric Fellow: Research design and translation of informed consent/assent forms to conduct survey studies to investigate depressive symptoms among youth in China.
- 2007 ~ 2010: Lilia Jesus, Pediatric Fellow: Research design, data analysis and interpretation on polymorphisms in ACE and pulmonary hypertension in low birth weight children relationship between religion and depression. Preparation of abstract and manuscript for publication
- 2007 ~ 2008: Sanjay Chawla, Pediatric Fellow: Research design, planning for data analysis, and advanced statistical modeling (e.g., multiple regression, logistic regression) for multiple research projects on body temperature and lung compliance of very low birth weight neonates.
- 2007~ 2008: Dena Nazer, Pediatric Fellow: Research design, statistical analysis, result interpretation and abstract development with national data on seasonal change of child injury in the United States.
- 2006: Rejender Gattu, pediatric fellow: Research design, statistical analysis and manuscript preparation to examine trends of pediatric poisonings seen in pediatric emergency department.
- 2006: Mark Riederer, Pediatric Resident: Statistical analysis to assess the effect of an educational program of doctor-patient communication in enhancing patient treatment and satisfaction.
- 2006: Elias Tessema, Pediatric Fellow: Research design, sample size and power, specificity and sensitivity for investigating the role of serum protein S100B in predicting brain injury in pediatric patients.
- 2006: Ana Xavier, Pediatric Resident: Skills on research design and statistical analysis using retrospective chart review data.
- 2006: Nahed Abdel-Haq, Pediatric Fellow: Research design and proposal revision for a project to study Rotovirus subtypes after introduction of the FDA-proofed vaccine PV 7.
- 2006 ~ 2010: Ibrahim Ahmad, Pediatric Fellow: Research design and statistical analysis of

- controlled trial data on preemptive antiviral treatment of hepatitis in enhance the success and survival time of bone marrow transplantation of leukemia patients and manuscript development for publication.
- 2005: Pooja Kulkarni, Pediatric Resident: Research design to conduct retrospective study studies to examine the relationship between prostaglandin E₁ infusion and hypertension in neonates.

Junior Faculty Members

- 2017~present: Yan Wang, Research Scientist Assistant, advice for preparation of tenure-track assistant professor
- 2016~present: Catherine Strily, Assistant professor, advice for preparation of tenure and promotion.
- 2014~present: Nicole Whitehead, Assistant professor: Design for behavioral intervention research, preparation of NIH grant proposal. Her most recent K-award submission received a score of 20 she was noted by NIH for funding.
- 2012 ~ 2014: Roshani Agarwal, Clinical faculty: Research design for clinical epidemiological studies on eye fungal infection in pediatric patients.
- 2012: Lokesh Guglani, Assistant Professor, pulmonologist: Psychometric evaluation of new scales for clinical diagnostic utilization, and manuscript development.
- 2010 ~ 2013: Karen McDonald, Assistant Professor: Skills for manuscript development and experience for manuscript review.
- 2010 ~ 2012: Katie Brogan, Assistant Professor: Design and utilization of objective assessment of physical activities in children, peer review of manuscripts, manuscript development using existing data and advanced analytical methods.
- 2009~ 2012: Liying Zhang, Lecturer. Advanced topics on paradigm of research, issues related to research design, application of epidemiological methods in behavioral research, and preparation of research proposals.
- 2008 ~ 2009: Heather Janisse: Advanced statistical methods and models including latent growth curve modeling, research design, proposal development, grant management, implementation of funded projects, and manuscript revisions.
- 2007 ~ 2012: Usha Sethuraman, Physician and Assistant Professor: Proposal development (design, sample size, statistical power, and analytical plans), data analysis, result interpretation, and manuscript preparation for research to increase the efficiency of pediatric emergency services.
- Nirupama Kannikeswara, Physician and Assistant Professor: Proposal development (design, sample size, statistical power, and data analysis plans), data analysis, result interpretation, and manuscript preparation in the area of anesthesia safety among pediatric emergency patients. Dr. Kannikeswara was promoted to Associated Professor in 2013
- 2007: Renato Roxas, Physician and Assistant Professor: Research and analytical methods for the Health Air for Kids program on ETS prevention.
- 2006 ~ 2009: Firdous Siddiqui, Physician & Assistant Professor, Department of Internal Medicine: Research design for proposal development, data analysis, result interpretation and abstract/manuscript development for molecular clinical epidemiological research of hepatitis A B and C among ethnic minority patients.
- 2005 ~ 2009: Weiping Ren, Assistant Professor, Department of Engineering (Bioengineering): Proposal development to examine pathophysiology of total

- joint losing from molecular to the morphological levels among veteran patients with total joint replacement therapy.
- 2005 ~ 2011: Beena Sood, Pediatrician and Assistant Professor: Assistance in planning for data analysis, advanced methodologies for lab-based data analysis, selection of appropriate analytical methods, statistical result interpretation, manuscript development and revision. Dr. Sood was promoted to Associated Professor in 2012. She also became a long-term collaborator with me on NIH funded projects.
- 2004 ~ 2011: Jocelyn Ang, Pediatrician and Assistant Professor: Assistance in research design, sample size estimation, power analysis, planning for statistical analysis for projects on pediatric infectious diseases. Dr. Ang was promoted to Associated Professor in 2013. She continues to collaborate with me after I left the school.

Course Development

- 2016: Advanced Epidemiologic Method II, a revised graduate course. Contents include analytical methods for cross-sectional and longitudinal analysis, including multivariate linear and logistic regression, mediation, moderation, and mediated moderation analysis and structural equation modeling. Hands-on lab practice in team and student presentation on design, data analysis and result interpretation.
- 2014 ~ 2015: Advanced Epidemiologic Methods III, a newly developed graduate course. Contents include guidance for method selection and application of advanced analytical methods to address key epidemiologic research aims, measurement tools with measurement modeling method, advanced descriptive epidemiology with developmental trajectory analysis, historical epidemiology with APC modeling, behavioral dynamics modeling with PDES and cusp catastrophe modeling methods, and longitudinal and randomized trials with mixed effect modeling analysis.
- 2014: Epidemiology: Past, Present and Future, Seminar Series I, graduate course. Guided seminar series covering eminent studies published across a long historical period to introduce epidemiology with a historical and modern perspective.
- 2011: Advanced Research Methods II: Intervention Research Design and Evaluation, syllabus supporting the establishment of a PhD program at Wayne State University Pediatric Prevention Research Center.
- 2008: SAS and Its Application in Public Health Research, MPH Program, hosted by the Department of Family Medicine and Public Health, including syllabus, teaching slides, exercises, test questions and scoring.
- 2007: Biostatistics for Epidemiology, the MPH program hosted by the Department of Family Medicine and Public Health, including the Syllabus and recommended textbooks, Wayne State University School of Medicine, Detroit, MI, USA.
- 1997: Social Determinants of Health and Social Medicine, MPH Program at the University of Southern California Institute for Prevention Research, Alhambra, California, USA
- 1993 ~94: Medical Research Design and Data Analysis, core course for MPH in Health Statistics Program, Tongji Medical University (former Wuhan Medical

1988~89: College) School of Public Health, Wuhan, China
Behavioral Medicine, core course for Undergraduate Correspondence
Education Program, Wuhan Medical College, Wuhan, China

KEY AREAS OF RESEARCH INTERESTS

1. Modeling nonlinear dynamics of human health and behaviors with advanced methodology, including cusp catastrophe modeling, PDES modeling, structural equation modeling, mediation and moderated medication modeling
2. Methodologies for survey study: Probability sampling, social desirability in survey response, missing data, big data, and advanced analytics
3. Theoretical research: Acculturation, socialization, family functioning, ecological theory, social capital, migration and global health
4. Substance use research, including tobacco, alcohol and marijuana.
5. HIV/AIDS epidemiology and behavioral intervention prevention via randomized trials
6. Cardiovascular risk for persons living with HIV, epidemiology and intervention
7. Prostate cancer epidemiology: hormones, sex, exercise, nutrition

GRANT, CONTRACTS, AND OTHER FUNDING

Active National/International Grants and Contracts

1. Exposure to secondhand smoke of cigarette and marijuana in young children
Funding source: NIH/CTSI pilot grant (UL1TR001427).
Period: 04/15/2017-12/31/2018
Role: Principle Investigator
Major Goal: Determine secondhand exposure to marijuana in young children after passage of the Florida State Medical Marijuana Laws in 2016.
2. Quantum change and HIV risk behavior among US adolescents and young adults
Funding source: NIH/HICHHD (Award #: R01HD075635)
Period: 07/01/2013-08/31/2018
Total cost: \$1.7 million
Role: Principle Investigator
Major goal: Develop the cusp catastrophe modeling method, including software for analysis of HIV risk behaviors in adolescents and apply the method to analyze data from the National Longitudinal Survey of Youth 1997 and two randomized controlled data of ours to demonstrate the utility of the cusp catastrophe modeling methodology.
3. Comparing the effectiveness of two alcohol adherence interventions for HIV+ youth
Funding source: NIH/NIAAA (Award #: R01 AA022891)
Period: 11/01/2013-10/31/2018
Total costs: \$2.50 million
Principle Investigator: Naar-King
Role: Co-Investigator
Major goal: Comparison of a home-based version with a clinic-based version of the program “Health Choices” (MST-based four sessions) in assisting HIV+ youth to reduce alcohol use and related health outcomes. This project will be carried out at five ATN sites across the nation.
4. Alcohol consumption patterns on cardiovascular health in persons living with HIV

Funding source: HIH/NIAAA (Award #: F31 AA024064)

Total direct cost: \$75,398

Period: 07/01/2015 – 06/30/2017

Principal Investigator: Kelso

Role: Mentor

Major goal: Investigate the impact of alcohol use on cardiovascular risk among PLWHA with data from two longitudinal cohorts.

5. The Biostatistics, Epidemiology and Research Design (BERD) Program, UF Clinical and Translations Research Institute

Role: Epidemiology expert

Active Other Grants and Contracts

1. Phase ½ of aerosolized surfactant for neonatal respiratory distress syndrome.
Funding source: FDA (R01FD004793).
Period: 08/15/2014 ~07/31/ 2018
Total cost: \$2.3 million
Principal Investigator: Beena Sood
Role: Subcontract PI, Co-Investigator/biostatistician
2. Exposure to secondhand smoke of cigarettes and marijuana in young children
Funding source: NIH through CTSI at UF (UL1TR001427)
Period: 05/15/2017 ~ 11/14/2018
Total cost: \$25,000
Principal Investigator: Xinguang Chen
3. Alcohol use and mental health – Pilot test of video-assisted drinking topography
Funding source: Chen's IDC and Leeman's package funding
Period: 05/01/2017 – 04/30/2018
Principal investigator: Leeman
Role: Co-Principal Investigator

Pending State/National/International Grants and Contracts

1. A new method to correct social desirability bias in survey research
Funding source: NIH/NIMH
Period: 04/01/2018-03/31/2023
Total direct cost: \$1.2 million
Role: Principal Investigator
Major goal: Determine the utility of a construal level theory-based method we devised for use in survey studies to obtain more reliable data on sensitive topics (sex, alcohol, drugs, stigma, condom use etc.) by reducing social desirability bias.
2. Marijuana laws and secondhand smoke exposure in young children (R01, MPI, collaboration with faculty in pediatrics/children's hospital)
Funding source: NIH/NIDA/NIMH/NICHHD
Period: 04/01/2018-03/31/2023
Total direct cost: \$1.5 million
Role: Principal Investigator
Major goal: Determine levels and determinants of secondhand marijuana exposure in Florida children after the state passed its medical marijuana laws in 2016 in the large U.S. context with laws permitting marijuana use passed in 29 of the 50 states.

3. From marijuana to tobacco and secondhand smoke exposure in children
 Funding source: James and Esther King Biomedical Research Program Florida DOH
 Period: 03/01/2018-02/28/2023
 Total direct cost: \$1.5 million
 Role: Principal Investigator
 Major goal: Determine secondhand marijuana exposure and potential negative health consequences in young children after passage of the Medical Marijuana Laws by the State Legislature in Florida in 2016.
4. Medical marijuana laws and adolescent marijuana use (R01, MPI)
 Funding source: NIH/NIDA Period: 07/01/2018-06/30/2023
 Role: Principal Investigator
 Total direct cost: \$1.65 million
 Major goals: Investigate the impact of medical marijuana laws on risk of marijuana use among adolescents with national survey data and the advanced age-period-cohort modeling and the probabilistic discrete event modeling approach, capitalizing on the new methods of Moore-Penrose generalized inverse matrix method and the convex optimization method to solve non-identifiable systems.
5. Unified meta- and mega-analysis of multiple national surveys on substance use in the United States (R01, MPI)
 Funding source: NIH/NIDA
 Period: 09/01/2017 – 08/31/2022
 Total direct cost: \$1.35 million
 Role: Principal Investigator
 Major goal: Big data related project to create unification methodologies to synthesize multi-studies from multi-sources and apply the methodologies to obtain consistent estimate of substance use reported by different national surveys for the same year supporting CC's precision planning and evaluation.
 Status: Not funded (no reviewed by a panel with interest in methodology), plan to resubmit in Feb 2018
6. Social and phylogenetic study of an HIV-1 hotspot in Wuhan, China (R01, MPI, collaborative with molecular epidemiologists in the U.S. and Wuhan CDC research staff in China)
 Funding source: NIH/NIAID (RFA-AI-16-006)
 Period: 07/01/2017 – 05/31/2022
 Total direct cost: \$1.0 million
 Role: Principal Investigator
 Major goal: To investigate an outbreak of the HIV-1 epidemic in an inland provincial capital city in China with a blended social and phylogenetic approach.
 Status: Scored 38, 28th percentile. Plan to resubmit in 2018
7. Translational science training to reduce the impact of alcohol on HIV infection (T32)
 Funding source: NIH/NIAAA
 Period: 2018-2023
 Total direct cost: \$1.8 million
 Principal Investigator: Cook
 Role: Mentor
 Major goal: Provide mentored training for pre- and postdoctoral trainees to come

independent researchers in the areas of alcohol and HIV prevention and treatment research.

Status: Revised submission received an impact score of 30.

Previously Funded Grants and Contracts

1. The impact of long-term marijuana use on the neurocognitive functioning of individuals living with HIV
Funding source: HHS/NIDA (Award #: F31DA039810)
Total direct cost: \$75,398
Period: 07/01/2015 – 06/30/2017
Principal Investigator: Okafor
Role: Mentor
2. Epidemiology of invasive fungal infections at tertiary care pediatric hospital over 11-year period
Funding sources: Astellas Scientific and Medical Affairs, Inc.
Period: 01/01- 12/31, 2015
Total cost: \$25,000
Principal Investigator: Jocelyn Ang
Role: Co-Investigator/biostatistician
3. Social capital and HIV risk behavior among rural migrants in China
Funding source: NIH/NIMH (Award #: R01 MH086322)
Period: 04/01/2010~03/31/2016
Role: Principal Investigator
4. Fidelity and outcomes of national implementation of FOYC plus CImPACT Funding source: NIH/NIMH (R01 HD064350)
Total direct cost: \$2.4 million
Period: 07/01/2010~06/30/2015
Principal Investigator: Stanton
Role: Co-Principal Investigator
5. Evidence-based multilevel risk reduction for Bahamian mid-adolescents
Funding source: NIH/NIMH (R01 MH069229)
Period: 07/01/2009 ~06/30/2014
Total costs: \$2.15 million
Principal Investigator: Stanton
Role: Co-Principal Investigator
6. Measuring cigarette smoking behavior progression with cross-sectional data
Funding source: NIH/NIDA (R01 DA022730)
Period: 04/01/2008 ~ 03/31/20103
Total direct cost: \$570,000
Role: Principal Investigator
7. Computer Motivational Interventions to Improve Diabetes Care in Minority Youth
Founding Source: NIH/NIDDK (R21 DK089238)
Period: 4/2011-3/2013
Principle Investigator: Ellis
Role: Co-Investigator, responsible for research design, measurement, guidance for statistical analysis, result interpretation and manuscript development

8. Motivational enhancement therapy for health risk behaviors in HIV+ Thai youth
Funding source: NIH/NIMH (R34 MH077523)
Period: 07/01/2007 ~ 10/31/2010
Total cost: \$499,748
Principal Investigator: Rongkavili
Role: Co-Investigator and Biostatistician
9. Community Health Interventions for Adolescents with Poorly Controlled Diabetes
Funding source: NIH/NIDDK
Period: 04/01/2011 ~ 03/31/2012
Total direct cost: ~\$543,000
Principal Investigator: Ellis
Role: Co-Investigator/Biostatistician
10. Computer motivational intervention for parental involvement in teen diabetic care of adolescents with type I diabetes.
Funding source: NIH stimulus funds from the American Recovery and Reinvestment Act
Period: 09/30/2010 ~ 09/29/2012
Total direct costs: \$454,800
Principal Investigator: Ellis
Role: Co-Investigator/Biostatistician
11. Peripheral monocyte profiles and aseptic loosening
Funding source: NIH/NIAMS
Period: 10/01/2009 – 09/30/2011
Total costs: \$250,000
Principal Investigator: Ren
Role: Co-Investigator/Biostatistician
12. Tobacco use among health care providers
Funding sources: Wuhan Bureau of Public Health and National Center for Health Statistics and Information
Period: 09/10/2009-07/30/2011
Principal Investigator: Gong
Role: Co-Investigator and adverse
13. Utility of end tidal carbon dioxide (ETCO₂) monitoring in detection of respiratory adverse events during sedation for MRI in children with developmental disabilities
Funding source: Cardinal Health (private foundation)
Period: 07/01/2008 ~ 6/30/2009
Total direct cost: \$100,000
Principal Investigator: Nirupama
Role: Co-Investigator/Biostatistician
14. Sedation for brain MRI in children with and without disabilities
Funding source: Blue Cross Blue Shield Michigan Foundation
Period: 10/01/2008 ~ 03/31/2010
Total direct costs: \$10,000
Principal Investigator: Nirupama
Role: Co-Investigator/Biostatistician
15. Gene tobacco interactions on child behavioral and cognitive development
Funding source: Wayne State University Institute for Population Studies, Health Assessment, Administration, Services and Economics

- Period: 10/01/2008 ~ 12/31/2009
 Total direct costs: \$98,000
 Principal Investigator: Kimbley Woodcroft
 Role Co-Principal Investigator
16. Comparison of waist circumference to BMI as a screening tool for metabolic syndrome in a pediatric emergency department
 Funding sources: Blue Cross Blue Shield
 Period: 11/1/2008 ~ 10/31/2009
 Total direct cost: \$10,000
 Principal Investigator: Sethuraman
 Role: Co-Investigator and Biostatistician
 17. Medical student nutrition intervention counseling and coaching
 Funding source: Council on Medical Student Education in Pediatrics (COMSEP)
 Period: 01/2007~12/2008
 Total direct costs: \$5,000
 Principal Investigator: Angelilli
 Role: Co-Investigator/Statistician
 18. The effect of CYP2A6 gene and tobacco exposure on cognitive development of urban preschoolers
 Funding source: Wayne State University Institute for Population Studies, Health Assessment, Administration, Services and Economics
 Period: 09/10/2007~08/30/2008
 Total direct costs: \$100,000
 Role: Principal Investigator
 19. Effects of Rapid Assessment times on length of stay in an urban pediatric emergency department
 Funding source: Blue Cross and Blue Shield
 Period: 07/2007 ~ 06/2009
 Total direct cost: \$10,000
 Principal Investigator: Sethuraman
 Role: Co-Investigator and Biostatistician
 20. Bereavement and psychosocial needs of AIDS orphans: A longitudinal assessment
 Funding source: NIH/NIM (R01 MH076488)
 Period: 09/01/2005~ 08/31/2009
 Total direct cost: \$1.3 million
 Principal Investigator: Li
 Role: Co-Investigator
 21. Gene ETS interaction on lung function in inner-city children
 Funding source: Children's Research Center of Michigan
 Period: 07/01/2005 ~ 06/30/2008
 Total direct costs: \$100,000
 Role: Principal Investigator
 22. ACE gene polymorphism and permanent pulmonary hypertension in low birth weight babies
 Funding source: Wayne State University School of Medicine
 Period: 07/01/2005 ~ 12/31/2006

- Principal Investigator: Jesus, pediatric fellow
Role: Co-Investigator/Biostatistician
23. Hypotension following prostaglandin E1 infusion in neonates with ductal-dependent congenital heart disease – A retrospective study
Funding source: Wayne State University School of Medicine
Period: 07/01/2005 ~ 12/31/2006
Principal Investigator: Kulcarni, pediatric fellow
Role: Co-Investigator
 24. Targeted risk reduction strategies for adolescents: One size does not fit all
Funding source: Wayne State University Institute for Population Studies, Health Assessment, Administration, Services and Economics
Total direct costs: \$100,000
Period: 05/01/2004 ~10/31/2005
Principal Investigator: Abbey
Role: Co-Investigator
 25. Adolescent risk reduction in the Bahamas-peers and parents
Funding source: NIH/NIMH (5R01 MH069229)
Period, 06/01/2004~04/30/2009
Principal Investigator: Stanton
Role: Co-Investigator
 26. Motivational Enhancement for HIV+ Youth
Funding sources: NIH/ NICHD, NIDA, NIMH and NIAAA
Period: 10/01/2004 –2/28/2010
Total direct cost: \$888,992
Principal Investigator: Wilson, Site-PI: Naar-King
Role: Co-Investigator and Biostatistician
 27. Social stigma and mental health symptoms in migrant workers
Funding source: NIH/FIC (R21 TW006375)
Period: 09/01/2003 -08/31/2006
Total cost: \$350,000
Principal Investigator: Li
Role: Co-Investigator
 28. Development and implementation of a statewide planning and evaluation model for tobacco use prevention in the State of Georgia
Funding source: Georgia State Department of Human Resources
Period: 01/07/2002 ~ 06/30/2003
Total direct costs: \$120,000
Role: Principal Investigator
 29. Independent evaluation of the Massachusetts Tobacco Control Program
Funding source: Massachusetts State Department of Public Health
Period: 05/01/2002 ~ 04/31/2003
Total direct costs: \$640,000
Principal Investigator: Hamilton
Role: Co-Investigator
 30. External evaluation consultant for the Tobacco-Free Nebraska Program
Funding source: Nebraska State Department of Health and Human Services System

- Period: 07/01/2002/ ~ 06/30/2003
Total direct costs: \$479,982
Principal Investigator: Emont
Role: Co-Principal Investigator
31. Adaptation and replication of 'Focus on Kids' in China
Funding source: World AIDS Foundation
Period: 01/01/~12/31/2002
Principal Investigator: Li
Role: Co-Investigator/Statistician manuscript for publication
 32. Social science and vaccines
Funding source: International Vaccine Institute (IVI)
Period: 01/06/2000 ~ 12/31/2005
Principal Investigator: Stanton
Role: Co-Investigator
 33. Smoking in Asian youth: Effect of self-image and family
Funding source: University of California TRDRP (Dissertation Award) Period:
07/01/2000 ~ 06/30/2002
Total direct cost: \$60,000
Principal Investigator: Weiss (PhD student)
Role: Co-Investigator/Mentor
 34. Learning process: Longitudinal impact on community violence
Funding source: U.S. Department of Education
Period: 10/01/2000 ~ 09/30/2005
Principal Investigator: Delaney-Black:
Role: Co-Investigator/Statistician
 35. Educational smoking prevention intervention trial
Funding source: Chinese National Science Foundation
Period: 2000~2002
Principal Investigator: Fang
Role: Co-Investigator
 36. Ethnic differences in cigarette smoking dynamics among youth
Funding source: University of California Tobacco-Related Disease Research
Program (TRDRP)
Period: 07/01/2000 ~06/30/2002
Total direct cost: \$470,404
Role: Principal Investigator
 37. Longitudinal adolescent smoking behavior survey
Funding source: Huo Yindong Foundation, China Period: 2000~2002
Principal Investigator: Fang, China collaborator
Role: Co-Investigator
 38. Smoking behavior progression among adolescents across diverse cultures
Funding source: NIH/NCI/NIDA (P50 CA 084735) Period: 10/01/1999 ~ 09/30/2004
Total direct costs: \$245,000
Role: Principal Investigator
 39. Tobacco use prevention across cultures-Transdisciplinary Tobacco Use Research

Center Project

Funding source: NIH/NCI/NIDA (P50 CA 084735) Period: 10/01/1999 ~ 09/30/2004

Total direct costs: \$8,300,000

Principal Investigator: Johnson

Role: Co-Investigator/Project Leader/Key member of Developmental Core

40. Use of alternative medicine by cancer patients
Funding source: NIH/NCI
Period: 01/01/1999 ~ 08/30/2000
Total direct cost: \$285,756
Principal Investigator: Deapen
Role: Co-Investigator/Biostatistician
41. Measuring sensations of initial tobacco exposure as an indication of vulnerability to tobacco among youth
Funding source: University of Southern California Junior Faculty Foundation
Period: 07/01/1999 ~ 06/30/2000
Total direct cost: \$12,600
Role: Principal Investigator
42. Preventing smoking and ETS exposure in California Pacific Rim youth: An integrated research project
Funding source: University of California TRDRP Period: 04/01/1998 ~ 03/31/2000
Total direct costs: \$978,792
Principal Investigator: Johnson
Role: Co-Principal Investigator
43. USC-Wuhan Youth Health Promotion Project
Funding sources: HIH/NCI/University of Southern California/Wuhan Public Health Bureau/Wuhan CDC
Period: 01/01/1998~12/31/2003
Total direct costs: \$400,000
Principal Investigators: Johnson (U.S.) and Li Yan (China)
Role: Co-Principal Investigator/International Coordinator
44. Susceptibility to smoking among adolescent never-smokers
Funding source: University of California TRDRP
Period: 07/01/1998 ~ 06/30/2001
Total direct costs: \$300,000
Principal Investigator: Unger
Role: Co- Investigator
45. Independent evaluation of the California Tobacco Control Program
Funding source: California State Department of Health Services
Period: 08/01/1996 ~ 12/31/1997
Total direct costs: \$500,000
Principal Investigator: Johnson
Role: Co-Investigator and Evaluator
46. Measurement of the quality of life for the aged population
Funding source: Tongji Medical University President Research Foundation, China
Period: 09/01/1995 ~ 08/30/1996
Total direct costs: \$8,000

Role: Principal Investigator

47. Design and data analysis of medical and health research
Funding source: Chinese Education Commission, China
Period: 07/01/1995 ~ 06/30/1996
Total direct costs: \$15,000
Role: Principal Investigator
48. Nicotine craving and brain functioning
Funding source: China National Science Foundation
Period: 01/01/2005 ~ 12/31/2007
Principal Investigator: Fang
Role: Co-Investigator

Previously Submitted, not Funded Grants and Contracts

1. Social and phylogenetic study of HIV-1 in Wuhan with a longitudinal design (R01, MPI, in response to an RFA for US-China collaboration on HIV Research)
Funding source: NIH/NIAID (RFA-AI-16-006)
Period: 12/01/2016 – 11/30/2022
Total direct cost: \$1.0 million
Role: Principal Investigator
Major goal: To investigate an outbreak of the HIV-1 epidemic in an inland provincial capital city in China with a blended social and phylogenetic approach.
2. Heterogeneity of adherence patterns among patients with chronic conditions: A group based trajectory modelling approach
Funding source: PCORI
Period: 09/01/2015-08/30/2017
Total direct cost: \$373,000
Major goal: Investigate patterns of treatment adherence for chronic disease in the United States. (The project was initiated by a pharmacy PhD student while he was in my class on advanced epidemiological methods III and was inspired by the method on trajectory analysis covered by the class. At the time when submitting the proposal, a project with very a similar approach by researchers from Harvard was announced).
PI: Bowman
Role: Co-I (methodologist)
3. Distress tolerance, relapse and recidivism in substance using offenders (R01, MPI, collaboration with a junior faculty from the University of Southern Florida)
Funding source: NIH/NIDA
Period: 04/01/2014-03/31/2019
Total direct cost: 1.2 million
Role: Principal Investigator
Major goal: Assess the role of distress tolerance in substance use and recidivism of substance use offenders using the cusp modeling method. First submission received a priority score of 42, and ranked 21 percentiles.
4. Innovation training to improve global maternal and child health
Funding source: NIH/NCI
Period: 09/01/2014 ~ 08/31/2018
PI: Bonita Stanton

Role: Co-I and Mentor

Major goal: Dissemination of medical and health innovation to promote global maternal and child health through collaborative training and research with investigators across WSU campus.

5. Healthy Choices PLUS: Community health intervention for youth living with HIV (R01, MPI)
Funding source: NIH/NIAID
Period: 07/01/2014~06/31/2019
Total direct costs: ~\$2 million
Role: Co-Investigator and Biostatistician
6. Research Training in Developmental Transitions among Urban Children and Adolescents (T32)
Funding source: NIH/NICHHD
Period: 09/2011 – 08/2016
Total direct cost: \$1.2 million
Principal Investigator: Stanton
Role: Co-Investigator and Primary Mentor
Major goal: With a transdisciplinary team across university campus, this capacity-building grant is intent to recruit and train to doctoral and postdoctoral candidates for research in child development, nutritional and behavioral health.
7. Web-based longitudinal assessment of the sustainability of a school-based reproductive health program in Nha Trang, Viet Nam
Funding source: NIH/NICHHD
Period: 01/01/2010 ~ 12/31/2014
Total costs: \$2.3 million
Principal Investigator: Kaljee
Role: Co-Investigator and Biostatistician
8. Modeling and control of smoking behavior progression using probabilistic discrete event systems (R01, MPI)
Funding source: NIH/NIDA
Period: 04/01/2009 ~ 03/31/2012
Total direct costs: \$450,000
Principal Investigator: Lin
Role: Co-Principal Investigator
Major goal: This project is focused on the development of the probabilistic discrete event system models for assessing smoking behavior progression. My contribution includes behavioral expertise, statistical analysis and mathematical modeling.
9. Development of probabilistic discrete event system model for health behavior
Funding source: NSF
Period: 10/01/2008 ~ 09/30/2011
Total direct costs: \$335,792
Principal Investigator: Lin
Role: Co-Principal Investigator
10. GIS/GPS-Assisted Spatial Sampling for HIV/AIDS research
Funding source: NIH/Road Map
Period: 04/01/2008 ~ 03/31/2010

Total direct cost: \$275,000

Role: Principal Investigator

First submission un-scored, but the review statements are very positive, such as “extremely innovative” and “highly cost-effective” and “first such research in developing countries”, plan for revised-submission after getting one manuscript published

11. CYP2A6 gene-secondhand smoking and child development

Funding source: HIN/NIDA

Period: 04/01/2007 ~ 03/31/2012

Total cost: \$1.2 million

Role: Principal Investigator

This R01 scored 273(47 percentile) at first submission. The goal of this project is to examine the interaction between involuntary tobacco exposure in children, polymorphisms in metabolic genes and cognitive and behavioral development among inner-city children using a retrospective case-control design. Reviewers ask for a longitudinal prospective design which we cannot achieve within a short period. I have been working in the area of gene-environmental interaction after this proposal to collect new data and to strengthen the methodology for new proposals in the future.

12. Modeling the progression of health risk behavior using cross-sectional data

Funding source: NIH/RM Period: 9/15/2007~09/14/2011

Total direct cost: \$1.2 million

Role: Principal Investigator

Major goal: This proposal was developed in response to NIH’s Road Map for new innovative research. It is designated to the development of new methodologies and analytics to model the dynamics of health and risk behavior in general using the probabilistic discrete event method adapted from engineering. This project, although not funded during the first submission, lead to the funding of a formal R01 project. With the idea first proposed in this project, a series of papers have been published in the area of modeling substance transitions using cross-sectional survey data.

13. Alcohol use and HIV/AIDS risk among rural migrants in China

Funding source: NIH/NIAAA Period: 07/01/2006 ~ 6/30/2010

Total direct costs: \$1,123,000

Role: Principal Investigator

This R01 grant was scored 193 (24th percentile) after the second revision, within the 2003 payline but did not receive funding due to the tight NIH budget.

Major goal: Conduct an epidemiological survey with randomly sampled rural-to-urban migrants with rural and urban residents as comparison groups to investigate the role of changes in social capital after migration on HIV risk behavior for effective prevention intervention.

14. Is the current strategy for HIV prevention among youth appropriately targeted? (R21)

Funding source: NIH/NIMH

Period: 07/01/2015~06/30/2017

Total direct costs: \$275,000

Role: Principal Investigator

Status: Revised submission, received a priority score of 44.

Major goal: To assess an unexpected reverse relationship between neighborhood

poverty (assessed at zip code level) and HIV incidence rates among youth and young adults in Detroit through a survey study.

PUBLICATIONS

Peer-Reviewed Original Research in Refereed Journals

1. **Chen X**, Black NP, Thompson L, McIntyre D, Xu, Y, Yu B, Wang, Vickee S. High prevalence of urine marijuana positive among hospitalized children aged 1-6: A potential emerging medical and health challenge. Under preparation.
2. **Chen X**, Wang Y. Shifting in acceptance of cigarettes, alcohol, marijuana, and opiates among U.S. youth from 2000 to 2015: Evidence from differential item functioning analysis of the National Survey on Drug Use and Health. Under preparation.
3. **Chen X, et al**, Are Asian American women less likely to be depressed than women of other racial/ethnic backgrounds? A comparative analysis of prevalence and incidence with longitudinal SWAN data. Under preparation.
4. **Chen**, Yu B, Zhou H et al. Unified national prevalence rates of marijuana, tobacco and alcohol use by combining multiple national surveys. Under preparation.
5. **Chen X**, Wong J. Longitudinal nonlinear dynamics between combustible and electronic cigarette smoking transitions among adolescents in the United States. Under preparation.
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 240. **Chen X**, Yu SL, Chen LG. Geometric exploration of the meaning of partial regression and correlation coefficients in multivariate analysis. *Chinese Journal of Health Statistics*, March-April 1997; 13(2): 12-14. (Official journal of the National Association of Chinese Health Statistics). (This is a methodological paper that uses charts and figures to illustrate the complex meaning of partial regression coefficients commonly raised by many non- statistical faculty and graduate students.)
 241. **Chen X**, Rao KQ, Wei S. Urban-rural differences in the impacts of price and income on the demand for basic health care services in China. *Chinese Journal of Health Economics*. July 1996; 5(7): 46-48. (In this paper, I used the econometric models to assess rural-urban differences in the basic health care needs using national survey data).
 242. Wang JC, **Chen X**. A PAF model for the estimation of total health care expenditure from out-of-pocket money at the individual level. *Medicine and Society*. April-June 1996; 9(2): 30-32 (in Chinese)
 243. Sun Y, **Chen X**. Gender differences among children hospitalized in Wuhan Children's Hospital. *Chinese Journal of Hospital Statistics*. April-June 1996; 3(2): 140-142 (in Chinese).
 244. **Chen X**. Gender differences in mortality among Mainland Chinese and cross-nation comparisons. *Medicine and Society*. April-June 1996; 9(2): 28-30 (in Chinese).
 245. Liu SY, **Chen X**. On the progress in research of quality of life. *Foreign Medicine, Social Medicine series*. April-June 1996; 13 (2): 49-52 (in Chinese).
 246. **Chen X**, Dong H. A comparative Study of Injury mortality rates between China and Germany in 1990. *Medicine and Society*. January-March 1996; 9(1): 15-18 (in Chinese).
 247. **Chen X**, Dong H. A comparative study of population mortality rates between China and Germany in 1990. *Medicine and Society*. January-March 1996; 9(1S): 3-5 (in Chinese)
 248. **Chen X**, Rao KQ, Wei S. An elastic economic model analysis of outpatient care services in urban China. *Chinese Journal of Health Care Management*. 1996; 4(2): 87-89 (in Chinese).
 249. **Chen X**, Rao KQ, Wei S. An elastic economic model analysis of outpatient care services in rural China. *J Chinese Rural Health Care Management*. 1996; 4(3): 150-153 (in Chinese).
 250. Gu SZ, Zhu N, Chen X, Lian J. Old-age support system and reform in China. *Korean Journal of Population and Development*. December 1995; 24(2): 245-273. (cited 22

- times; PMID:12320063).
251. Wang JC, **Chen X**. A PDF model for the estimation of total hospitalization expenditure from out-of-pocket money at individual level. *Chinese Journal of Hospital Management*. April 1995; 16(4): 27-29.
 252. **Chen X**. On eastern and western cultures and public health issues in China, *Medicine and Society*. January-March 1995; 8(1): 48-51 (in Chinese).
 253. **Chen X**. Introduction to behavioral medicine VI: Behavioral compliance. *Foreign Medicine, Social Medicine series*. April-June 1988; 5(2): 82-87 (in Chinese).
 254. **Chen X**. Introduction to behavioral medicine V: Decision-making of patients. *Foreign Medicine, Social Medicine series*. January-March 1988; 5(1): 12-15 (in Chinese).
 255. **Chen X**, Liang HC. A mathematical model for simulating the time process of adoption after retirement. *Chinese Journal of Gerontology*. 1987; 5(22): 237-239.
 256. **Chen X**. Introduction to behavioral medicine IV: Behavioral pathology. *Foreign Medicine, Social Medicine series*. October-December 1987; 4(4): 212-15. (One of a set of journals to introduce advancement in medicine from the world to China; in Chinese).
 257. **Chen X**. On the development of the framework for social medicine. *Chinese Journal of Social Medicine*. July-September 1987; 1(3): 5-9.
 258. **Chen X**. Introduction to behavioral medicine III: Behavioral resistance to disease. *Foreign Medicine, Social Medicine series*. July-September 1987; 4(3): 144-148. (One of a set of journals to introduce advancement in medicine from the world to China; in Chinese).
 259. **Chen X**. An observational study of the effect of clinical marking of high blood pressure on patients' suffering from hypertension. *Foreign Medicine, Social Medicine series*. April-June 1987; 4(2): 71-73. (One of a set of journals to introduce advancement in medicine from the world to China; in Chinese).
 260. **Chen X**. Introduction to behavioral medicine II: Behavioral Etiology. *Foreign Medicine, Social Medicine series*. April-June 1987; 4(2): 88-92. (One of a set of journals to introduce advancement in medicine from the world to China; in Chinese).
 261. **Chen X**. Introduction to behavioral medicine I: General. *Foreign Medicine, Social Medicine series*. January-March 1987; 4(1): 71-3. (One of a set of journals to introduce advancement in medicine from the world to China; in Chinese).
 262. Liang HC, Lo WJ, **Chen X**. Case-control study of 180 stomach cancer patients from four southern counties in China. *Bulletin of Huazhong University of Science and Technology, Medicine* (former *Tongji Medical University Bulletin*) July-August 1986; 4: 64-67.
 263. Liang HC, Liu X, Lo WJ, **Chen X**. Lifestyle and causes of death in China: An observation from the 1982 National Random Mortality Survey. *Chinese Journal of Social Medicine*. January-March 1986; 1(1): 3-5. (Official journal of the Chinese Society of Social Medicine).
 264. Luo WJ, Liang HC, **Chen X**. A logistic regression analysis of the risk factors for drowning of young children in Macheng County. *Tongji Medical University Bulletin*. March-April 1985; 47(2): 21-23. (This is my first involvement in social epidemiological research on causes of death among residents in rural China.)

Invited and Peer-Reviewed Chapters

1. **Chen X**, Booza J, et al: GIS/GPS-Assisted Method to Draw Random Samples for Survey Study. Under preparation. In this book, we summarized the sampling methods

we tested in an NIH funded project to draw random samples for mobile and hidden populations (such as migrants) without depending much on census and other data to compose sampling frames.

2. **Chen X** & Chen D. (2015). Chapter 12, Cusp catastrophe modeling in medical and health research. In *Chen, D.G. and Wilson, J. (Eds.): Innovative Statistical Methods for Public Health Data*. Springer/ICSA Book Series in Statistics, August 2015, pp.265-90. In this newly completed chapter, we introduced the concept of paradigm shifting from linear and continuous complex and discrete and the role of cusp catastrophe modeling in supporting this shift to advance health behavior research in public health and preventive medicine.
3. Chen D & **Chen X**, Feng Lin (2015) Chapter 5, Using Generalized-Inverse Matrix Theory to Solve Probabilistic Discrete Event Systems in Analyzing Cross-Sectional Survey Data. In *Chen, D.G. and Wilson, J. (Eds.): Innovative Statistical Methods for Public Health Data*. Springer/ICSA Book Series in Statistics, August 2015, pp.81-96.
4. Tiura A*, **Chen X**. Smoking and Health. *The Wiley-Blackwell Encyclopedia of Health, Illness, Behavior, and Society*. Online February 2014, doi: 10.1002/9781118410868.wbehibs359. In this invited chapter, we summarized the significance of tobacco use and prevention as they related to health, and proposed strategies for more effective tobacco control (*: Postdoc fellow).
5. **Chen X**, Tang X, Li X, Stanton B, and Li, H. Chapter 1. Core Human Values, Risk Factors and Health Risk Behaviors: New Evidence for Advancing Risk Reduction Strategies among Adolescents. In Terry C. Rhodes, Ed. *Focus on Adolescent Behavioral Research*. Nova Scientific Publishing Company, NY, NY, 2007. Pages: 7-47. (This chapter was invited and peer-reviewed. Instead of synthesizing published data, in this chapter we reported empirical data from our own research. This is my first research to use measurement models in assessing core human values among Chinese adolescents under the assumptions that factors not explicitly related to health risk behavior may also be important in risk reduction.)
6. **Chen X** and Wu-Weiss J. Chapter 3. Enrichment in early childhood, self-concept and cigarette smoking among adolescent minorities in California-A mediation model effect analysis. In Rene S. Grenell, Ed. *Adolescent Behavioral Research Studies*. Nova Scientific Publishing Company, NY, NY, 2007. Pages: 49-76. (This chapter was invited and peer-reviewed. In this chapter, I reported empirical data from our own research with fund from the well-known California Tobacco Control Program analyzed using advanced method of structural equation modeling.)
7. **Chen X**. Chapter 6: *Methodology for the Measurement of Health*. In Liang HC. *Social Medicine*, Changsha, China: Hunan Scientific and Technological publication House, 1988. (This book has been selected as textbook by all medical schools run by the Chinese Ministry of Health for students majored in Preventive Medicine.)

Books

- 1 **Chen X**. Advance Epidemiologic Methods, under preparation. In this book, I summarize my teaching of the advanced methods course for graduate students in the past 10 years and research in the past 25 years. To be completed by the end of 2017 and submission to Springer.
2. **Chen X** (Leading Editor), Yin P & Peng J (Co-Editors). *Medical Research Design and Data Analysis*. Wuhan, China: Wuhan University Press, 1997. (This is a textbook for graduate students in medical and health research and has been selected for use by a number of medical schools in China, including Tongji Medical University, Ji-Nan

- Medical University, and Hubei Provincial Medical University.)
3. **Chen X.** *Age and Sex Patterns of Mortality in China: 1950-90*, UMI, Michigan, USA: University of Michigan, 1994. (In this Ph.D. dissertation of mine, I systematically examined the patterns of mortality among Chinese in four decades since the establishment of the PRC in 1949, including a detailed comparison with developed countries/areas of both eastern and western cultures, including Japan, Taiwan, United States, and Sweden)
 4. **Chen X** (Leading Editor), Ren J.H., Tang Z.X., Chen J.H. (Co-Editors). *Behavioral Medicine*. Shanghai, China: Shanghai Scientific and Technological publication House, 1989. (This is the first book to introduce behavioral medicine to China and has been adapted as a textbook for students majoring in Health Education by the Tongji Medical University Correspondence Education Program, Wuhan, China.)

Technical Reports

1. Chen X, Mazumder S, Booza J et al. (2012). GIS/GPS-Assisted Random Sampling for Survey Study.
2. Abt Associates Inc. (2003). *Tobacco-Free Nebraska: Reducing Tobacco Use across the State, 2002 Annual Report*. Bethesda, MD: Abt Associates Inc.
3. Abt Associates Inc. (2003). *Independent Evaluation of the Massachusetts Tobacco Control Program, the Eighth Annual Report, 2002* (Chapter II). Cambridge, MA: Abt Associates Inc.
4. Independent Evaluation Consortium. (1998). *Final Report of the Independent Evaluation of the California Tobacco Control Prevention & Education Program: Wave 1 Data, 1996-1997. Chapter 5, Collaboration among Tobacco Control Program Components*. Rockville, Maryland: The Gallup Organization

Published Abstracts

1. **Chen X.** Epidemiological transitions in China, a paper presented at the 10th China and Dutch Friendship Week of Medicine, October 12-19, 1995, Berlin, Germany
2. **Chen X,** Unger JB, Johnson CA, Cruz, BT. Asian American youth Smoking Pattern and its relation with acculturation, the 1997 TRDRP Annual Investigators Meeting, December 2, 1997, San Francisco, CA.
3. **Chen X,** Cruz TB, Unger JB. Patterns of cigarette smoking among Asian American adults in California, the 1998 TRDRP Annual Investigators Meeting, December. 15-16, 1998, Los Angeles, CA.
4. **Chen X,** Unger JB, Johnson CA. Predicting age of smoking onset for youth with proportional hazard model, the 126th Annual Meeting of the APHA, November. 15-18, 1998, Washington DC.
5. **Chen X.** Unger JB, Johnson CA. Does age affect self-reported age of smoking initiation? The 1999 TRDRP Annual Investigators Meeting, December 10-11, 1999. San Francisco, CA.
6. Zheng H, **Chen X,** and Li Y. Perceived body image and cigarette smoking among girls in California, the 1999 TRDRP Annual Investigators Meeting, December 10-11, 1999. San Francisco, CA.
7. **Chen X,** Unger JB, Johnson CA, Cruz TB. Ethnic differences in receptivity to pro-tobacco media and its influences on smoking behaviors among youth. June 24-26, 1999. New Orleans, LA.
8. Unger JB, Cruz TB, **Chen X,** Ribisl K, Rohrbach LA, Johnson CA. Acculturation as a

- risk factor for smoking among Latino and Asian American adolescents: Evidence mediation by tobacco-related beliefs and social norms. The Annual Meeting of the Society of Behavioral Medicine. March 24-26, 1999. San Diego, CA.
9. Unger JB, Yan L, Johnson CA, Gong J, **Chen X**, Yang C, Trinidad D, Tran N, & Lo A. Stressful life events among adolescents in Wuhan, China: Associations with smoking, alcohol use, and depressive symptoms. Annual Meeting of the Society of Behavioral Medicine, March 24-26, 1999, San Diego, CA.
 10. Unger JB, Rohrhach LA, Cruz TB, **Chen X**, & Johnson CA. Attitudes toward anti-tobacco policy among California youth: Associations with smoking status, psychosocial variables, and advocacy actions. Annual Meetings of the Society of Behavioral Medicine, March 24-26, 1999, San Diego, CA.
 11. **Chen X**, Unger JB, Palmer P, Johnson CA. Prior cigarette smoking initiation predicting current alcohol use: Evidence for a gateway drug effect, the 128th APHA Annual Meeting, November 12-16, 2000, Boston, MA.
 12. **Chen X**. An increased number of never smokers with an increased number of 30-day Smokers: A Myth of Adolescents Cigarette-Use in California. 2000 TRDRP Annual Investigator Meeting, November 30-December 1, 2000, San Diego, CA.
 13. **Chen X**, Unger JB, Palmer P, Johnson CA. Hazard of smoking onset for adolescents in Wuhan, China, the 11th World Conference on Tobacco or Health, August 6-11, 2000, Chicago, IL.
 17. Li Y, Unger, JB., Gong, J. **Chen X**, Johnson, CA. Stressful life events and cigarette smoking among adolescents in Wuhan, China. The 11th World Conference on Tobacco or Health, August 6-11, 2000, Chicago, IL.
 14. **Chen, X**. State-specific prevalence affecting national trends in the US, 1990-2001. Oral Presentation, the 2003 U.S. National Conference on Tobacco or Health, December 10-12, 2003, Boston, MA.
 15. **Chen X**, Liu X. Age - period - cohort analysis of trends in never smokers among adolescent population in California, 1990-1999, the 129th APHA Annual Meeting, October 21-25, 2001, Atlanta, GA.
 16. **Chen X**, Hong Z, Gallaher P, Li Y, Unger JB, Gong J, Johnson CA. Enrichment of Early Childhood Life and Cigarette Smoking Onset among Adolescent Students in Wuhan, China. Society for Tobacco and Nicotine Research Third European Conference, September 19-22, 2001, Paris, France.
 17. **Chen X**, Zheng H, Gallaher P, Johnson CA, Li Y, Shan J, Xia J, Gong J. Sensations from initial nicotine exposure predicting adolescent cigarette smoking. The 7th Annual SBM/SRNT, March 20-25, 2001, Seattle, WA.
 18. Zheng H, Shan J, **Chen X**, Wang YH, Sussman S, Xia J, Johnson CA, Gong J, Liu CH, Li Y. Using stages of change theory in assessing effectiveness of a smoking cessation program in Wuhan, China. The 7th Annual SBM/SRNT, March 20-25, 2001, Seattle, WA.
 20. **Chen X**. Mapping the changing patterns of adult cigarette smoking in the U.S., 1990 – 2000. Oral Presentation, the 131 APHA Annual Meeting, November 16-19, 2003, San Francisco, CA.
 21. **Chen, X**. State-specific prevalence affecting national trends in the US, 1990-2001. Oral Presentation, the 2003 U.S. National Conference on Tobacco or Health, December 10-12, 2003, Boston, MA.
 22. **Chen X**. Mapping the changing patterns among adult cigarette smoking in the U.S., 1990 – 2000. Oral Presentation, the 131 APHA Annual Meeting, November 16-19,

- 2003, San Francisco, CA.
23. **Chen X**, Li X, Stanton B, Shankaran S. Early onset preventing pregnant women from quitting smoking: Evidence from the 2000 and 2001 National Household Survey on Drug Abuse. 132 APHA Annual Meeting, November 6-10, 2004, Washington DC.
 24. Liu H, Li X, Stanton B, **Chen X**, et al Risk factors for Sexually Transmitted Disease among rural-to-urban migrants in China: Implications for HIV/STD prevention among the vulnerable population, the 132nd APHA Annual Meeting, November 6-10, 2004, Washington D.C.
 25. Yang H, Li X, Liu H, **Chen X**, Stanton B. Venue pattern of HIV-related sexual behaviors and perceptions among female migrant workers, the 132nd APHA Annual Meeting, November 6-10, 2004, Washington D.C.
 26. Yan H, Li X, Stanton B, **Chen X**, et al. Internet Usage among Chinese College Students: Implications for Sex Education and HIV Prevention, the 132nd APHA Annual Meeting, November 6-10, 2004, Washington D.C.
 27. **Chen X**, Lin F, Hwang M. Application of Probabilistic Discrete Event System in Assessing Smoking Behavior. The 2005 National Conference on Tobacco and Health. May 4-6, 2005, Chicago, IL.
 28. **Chen X**, Lin F, Hwang M. Application of Probabilistic Discrete Event System in Assessing Smoking Behavior. Oral presentation. The 2005 National Conference on Tobacco and Health. May 4-6, 2005, Chicago, IL.
 29. **Chen X**, **Weis J.W.** Enrichment in Early Childhood Experience Reduces Risk for Smoking Initiation in Adolescence. Oral presentation. The 17th Annual Conference of American Psychological Society; May 26-29, 2005, Los Angeles, CA.
 30. **Chen X**, Stanton B, Li X, Tang X, Li H. Higher Values are associated with lower risk of cigarette smoking among medical students in China: Evidence for new tobacco control strategies. The 134 Annual Meeting of the American Public Health Association, November 4-8, 2006, Boston, MA.
 31. Shu S, Lin F, Ying H, and **Chen X**, State Estimation for Probabilistic Discrete Event Systems. Asymptotic Analysis in Stochastic Processes, Nonparametric Estimation, and Related Problems, September 15-17, 2006. Detroit. MI.
 32. Ahmad I, Haddad A, Sayed M, Mahalawy H, **Chen X**. Preemptive antiviral therapy for HBV or HCV reduces the risk for developing liver GVHD and GVHD related mortality in children after allogeneic bone marrow transplantation. Oral Presentation at the Sheldon L Brenner and Wolf W. Zuelzer Award Program, May and June, 2007. Detroit, Michigan.
 33. **Chen X**, Stanton B, Li X, Fang X, et al. Migrant Stigma Affects Social Capital Reconstruction in Urban China - A Social Mechanism Linking Migration with Health. The 1st Conference of *Journal of Health*, Journal of the Royal Institute of Public Health, Oral presentation. May 9-11, 2007. Lisbon, Portugal.
 34. Lin F, **Chen X**. Estimation of Transitional Probabilities of Discrete Event Systems from Cross-Sectional Survey and its Application in Tobacco Control, the European Control Association Annual Meeting. Oral presentation and preceding publication, July 2-5, 2007, Kos, Greece.
 35. Mahajan P, **Chen X**, Knazik, and Hamre M. Evaluation of the febrile infant (180 days old) has practice changed after PCV7. Pediatric Academic Societies Annual Meeting. May 5-8, 2007, Toronto, Canada.
 36. Mahajan P, Hamre M, Knazik S, **Chen X**. Evaluation of febrile infants 60 days of age Review of NHAMCS data, the Pediatric Academic Societies' Annual Meeting, May 5-

- 8, 2007, Toronto, Canada.
37. Jesus LC, Kazzi, N, Quasney, MW, Dahmer M, **Chen X**. The role of angiotension converting enzyme gene polymorphism in persistent pulmonary hypertension of the new born. Oral Presentation at the Sheldon L Brenner and Wolf W. Zuelzer Award Program, May and June, 2007. Detroit, Michigan and the 2nd Award.
 38. Chawla S, Natarajan G, Cortez J, Kazzi NJ, Chen X, Lua J. Respiratory system compliance in premature infants in relation to antenatal steroids & guide to extubation, the 49th Annual Midwest Society for Pediatric Research Scientific Meeting, October 15-17, 2008, Cleveland, Ohio.
 39. Sood, BG, **Chen X**, Maddipati K.R. Pharmacokinetics of high dose inhaled PGE1 in neonatal pigs, the Pediatric Academic Societies' Annual Meeting. May 2-5, 2009, Baltimore, Maryland.
 40. Chawla S, Natarajan G, Cortez J, Kazzi NJ, **Chen X**, Lua J. Respiratory system compliance in premature infants in relation to antenatal steroids and guide to extubation, the 49th Annual Midwest Society for Pediatric Research Scientific Meeting, October 15-17, 2008, Cleveland, Ohio.
 41. Khan A, Siddiqui F, Mutchnick MG, Ehrinpreis M, **Chen X**. African-American patients with chronic hepatitis c respond similarly to PEG-IFN alpha 2a and ribavirin as compared to PEG-IFN alpha 2b and ribavirin, the Annual Scientific Meeting of the American college of Gastroenterology, October 3-8, 2008, Orlando, Florida.
 42. **Chen X** and Woodcroft BK. Polymorphisms in metabolic genes CYP1A1 and GSTM1 and quitting smoking during pregnancy, the 136th APHA Annual Meeting, October 25-29, 2008, San Diego, CA.
 43. **Chen X**, Li X, Fang X, Zhao G, Lin D, Zhao J, Stanton B. Tobacco Smoking and Alcohol Consumption among Children from Families Affected by HIV/AIDS in Rural China. The XVII International AIDS Conference, August 3-8, 2008, Mexico City, Mexico.
 44. **Chen X**, Stanton B, Gong J, Li X, Deveaux L, Lunn S, Marshall S. Protection Motivation Theory and Sexual Risk Behavior among Adolescents in Bahamas - A Longitudinal and Structural Equation Modeling Analysis, the XVII International AIDS Conference, August 3- 8, 2008, Mexico City, Mexico.
 45. **Chen X**, Lin D, Fang X, Li X. Substance use among high risk adolescents in Beijing, China. The 16th Annual Meeting of Society for Prevention Research, May 28-30, 2008, San Francisco, CA.
 46. Gong J, **Chen X**, Zheng J, Li F, Zhou D, Wang Z. The impact of addictive internet use on drug abuse among adolescents in China: A mediation effect model. The 16th Annual Meeting of the Society for Prevention Research, May 28-30, 2008, San Francisco, CA
 47. Nazar D, Palusci VJ, **Chen X**. Are there any seasonal variations in the child maltreatment reports? The 26th Annual Kalamazoo Community Medical and Health Sciences Research Day, April 16, 2008, Kalamazoo, MI.
 48. Kannikeswaran N, Sethuraman U, **Chen X**, Knazik S, Mahajan P. Characteristics of multiple patient visits from the same family in an inner-city pediatric emergency department, the Annual Meeting of the Society for Academic Emergency Medicine, May 29 – June 1, 2008, Washington, D.C.
 49. Sethuraman U, Eldridge C, Kannikeswaran N, **Chen X**, Mahajan P. Assessment of return visits within 72 hours to A pediatric emergency department pre and post introduction of rapid assessment times, the Annual Meeting of the Society for

- Academic Emergency Medicine, May 29 – June 1, 2008, Washington, D.C.
50. **Chen X**, Lunn S, Deveaux L, Li X, Brathwaite N, Cottrell L, Stanton B. A Randomized controlled trial of an adolescent HIV prevention program among The Bahamian adolescents: Effect at 12 months post-intervention, the Pediatrics Academic Society Annual Meeting, May 2-7, 2008, Honolulu, HI.
 51. Sddiqui F, **Chen X**. African-American patients with chronic hepatitis C respond similarly to PEG-IFN alpha 2a and Ribavirin as compared to PEG-IFN alpha 2b and Ribavirin combination. The 43rd Annual Meeting of European Association for the Study of Liver. April 23-27, 2008, Milan, Italy.
 52. **Chen X**, Janisse H, Li X. Alcohol consumption during pregnancy, depression and parental satisfaction: A mediation modeling analysis, the 20th Annual Convention of Association for Psychological Science, May 22-25, 2008, Chicago, IL.
 53. **Chen X**. Uncover the Effect of Adolescent Tobacco Control in the United States during 1990-2005-An Age-Period Cohort Analysis, the Annual Conference of the Society for Epidemiological Research, June 22-26, 2009, Anaheim, CA.
 54. **Chen X**. Uncover the Effect of Adolescent Tobacco Control in the United States during 1990-2005-An Age-Period Cohort Analysis, the 2009 Annual Conference of the Society for Epidemiological Research, June 22-26, 2009, Anaheim, CA.
 55. **Ren Y, Chen X**. Unplanned pregnancy as a risk factor for involuntary tobacco exposure in children. The 137 APHA Annual Meeting, November 7-11, 2009. Philadelphia, Pennsylvania.
 56. Kannikeswaran N, Sethuraman U, **Chen X**, Samy Land Mahajan P. Children with and without developmental disabilities: Sedation medication requirements and adverse events, the Pediatric Academic Society Annual Meeting, May 1-4, 2010, Vancouver, Canada.
 57. Sethuraman U, Kannikeswaran N, Moltz K, **Chen X**, Ameli J, Mahajan P. Comparison of BMI versus Waist Circumference as an effective clinical screening tool for MET S in overweight children in a pediatric emergency department. 2010 Pediatric Academic Society Annual Meeting, May 1-4, 2010, Vancouver, Canada.
 58. **Chen X**, Abdulahmid I, Woodcroft K, Stanton B. Exposur to maternal smoking during pregnancy, polymorphic metabolic genes, and lung function measures in children from low-income urban families. 2010 Pediatric Academic Society Annual Meeting, May 1-4, 2010, Vancouver, Canada.
 59. Salloum R, McGrath E, **Chen X**, Becker C, Boldt-NacDonald K, Ang J & Chu R. Ethanol lock therapy for catheter-related blood stream infections in pediatric patients with a hematologic or oncologic diagnosis. 2010 Annual Meeting of the American Society of Pediatric Hematology/Oncology. April 7-10, 2010, Montreal, Canada.
 60. McGrath E, Salloum R, Chen X, Jiang Y, Becker K, Boldt-NacDonald K, Chu R, Ang JY. The clinical use of short-dwell ethanol-lock therapy in children with intravascular device-related blood stream infections. 2010 Pediatric Academic Society Annual Meeting, May 1-4, 2010, Vancouver, Canada.
 61. **Chen X**, Lin F, Zhang X. Validity of PDES method in extracting longitudinal information from cross-sectional data: An example of adolescent smoking progression. Supplement to American Journal of Epidemiology, page S141. 43rd Annual Meeting of the Society for Epidemiological Research. June 23-26, 2010, Seattle, Washington.
 62. **Chen X**, Lin F. PDES modeling of smoking behavior transition and national trends in cigarette smoking among US adolescents-A novel approach to smoking behavior analysis, the 138th APHA Annual Meeting, November 6-10, 2010, Denver, Colorado.

63. **Chen X**, Abdulhamid I, Woodcroft K. Exposure to maternal smoking during pregnancy, polymorphic metabolic genes, and lung function measures in children from low-income urban families. 2010 Annual Meeting of Pediatric Academic Societies, May 1-4, 2010, Vancouver, Canada.
64. **Chen X**, Li F, Boueiri E, Zhang X, Stanton B. Chaotic modeling of smoking and sexual initiation (oral presentation of research paper). 2010 Annual Meeting of the Society for Chaos Theory in Psychology and Life sciences, July 22-24, 2010, San Marcos, Texas.
65. Lau M, **Chen X**, Ren Y. Initiation of cigarette smoking among Hong Kong adolescents: The role of gender and migration, the 139th APHA Annual Meeting, October 29-Novemembr 2, 2011, Washington D.C.
66. **Chen X**. Network analysis of polydrug abuse among US adolescents, Oral presentation of research paper. 2011 Annual Meeting of the Society for Chaos Theory in Psychology and Life sciences, August 4-6, 2011, Orange County, California.
67. Arya X. **Chen X**, Jiang Y, Ang J. Epidemiology, clinical presentation and outcomes of Kawasaki disease among hospitalized children in an inner-city hospital before and after publication of the AAP/American Heart Association Guidelines for Treatment of Kawasaki Disease - An 11-year period, the Pediatric Academic Society Annual Meeting, April 30 to May 3, 2011 Denver, Colorado.
68. **Chen X**. Life-course linked risk of cigarette smoking among US youth transitioning to young adulthood. The 23rd Annual Convention of the Association for Psychological Sciences, May 25-29, 2011, Washington DC.
69. Wang B, Stanton B, **Chen X**, Li X, Dinaj-Koci V, Deveaux L, Lunn S. Predictors of responsiveness among early adolescents to a school-based risk reduction intervention over three years (Poster presentation), the Annual Meeting of Pediatric Academic Societies, April 28-May 1, 2012, Boston, Massachusetts.
70. **Chen X**, Stanton B, Li X. Markov Process in Modeling Time-Trajectory of Self-Efficacy: Application in Adolescent HIV Prevention in the Bahamas (Oral presentation), the 5th International Nonlinear Science Conference, March 15-17, 2012 Barcelona, Spain.
71. **Chen X**, Stanton B, Li X, and Chen D. Adolescent intention to use a condom: Is it rational or quantum? (Oral presentation), the 22nd Annual Conference of the Society for Chaos Theory in Psychology & Life Sciences, July 26-28, 2012, Baltimore, MD.
72. Chen X, Gong J, Chen D. Cusp catastrophe modeling of cigarette smoking among adolescents in China (poster session), the 140th Annual Conference of American Public Health Association, October 27-29, 2012, San Francisco, CA.
73. **Chen X**, Stanton B, Chen D. Dual-process of decision making and cusp catastrophe modeling in adolescent behavior research. The 25th APS Annual Convention, May 23-26, 2013, Washington D.C.
74. **Chen X**, Chen D. Dual-process systems theory-guided cusp modeling of adolescent sexual behavior progression. The 23rd Annual Conference of the Society for Chaos Theory in Psychology & Life Sciences, July 25-27, 2013, Portland, Oregon.
75. Chen D, **Chen X**. Lin F. Statistical power analysis for Guastello's polynomial cusp catastrophe model. The 23rd Annual Conference of the Society for Chaos Theory in Psychology & Life Sciences, July 25-27, 2013, Portland, Oregon.
76. **Chen X**. Global Health: Challenges and opportunities for public health education in Asian and Pacific. The 45 APACH Conference, October 25-27, 2013, Wuhan, China.
77. **Chen X**, Chen D. Random-pairing bootstrap and mutual informational correlation: A

- novel approach for assessing contamination in health behavioral intervention trials, the 142nd American Public Health Association Annual Meeting, November 15-19, 2014, New Orleans, LA
78. **Chen X**, Wang Y. The Brief Sexual Openness Scale – A social distance-based approach to assess sensitive survey questions. The 27th Annual Convention of the American Psychological Association, May 21-24, New York.
 79. Wang Y, **Chen X**. Can resilience buffer the mediation effect of negative emotions from stress to cigarette smoking? A moderated mediation modeling analysis. The 27th Annual Convention of the American Psychological Association, May 21-24, New York.
 80. **Chen X**, Chen D, Lan GH, Wang Y. Identify non-identifiable Markov-based systems for study the dynamics of adolescent marijuana use with cross-sectional survey data, the 25th Annual International Conference of the Society for Chaos Theory in Psychology and Life Science, July 29-31, 2015, Gainesville, FL.

Refereed and Invited Presentations

1. **Chen X**, Hong Z, Gallaher P, Li Y, Unger JB, Gong J, Johnson CA. Enrichment of Early Childhood Life and Cigarette Smoking Onset among Adolescent Students in Wuhan, China. Oral presentation on Society for Tobacco and Nicotine Research Third European Conference, September 19-22, 2001. Paris, France.
2. **Chen X**. Tobacco use and prevention among adolescents in the US, particularly Asian American youth. TV interview at the primary time from 5:30-5:40PM, channel LA 18 (America's largest Asian TV station), November 16, 2002. Los Angeles, CA
3. **Chen X**. Mapping the changing patterns of adult cigarette smoking in the U.S., 1990 – 2000. Oral Presentation at the 131 APHA Annual Meeting, November 16-19, 2003. San Francisco, CA.
4. **Chen, X**. State-specific prevalence affecting national trends in the US, 1990-2001. Oral Presentation at the 2003 U.S. National Conference on Tobacco or Health, December 10-12, Boston, Massachusetts.
5. **Chen X**: Analyze Group-Randomized Data Using Mixed Model. Tongji Medical College School of Public Health, July 16, 2004. Invited presentation.
6. **Chen X**, Lin F, Hwang M. Application of Probabilistic Discrete Event System in Assessing Smoking Behavior. Oral presentation to be held on the 2005 National Conference on Tobacco and Health. May 4-6, 2005, Chicago, IL.
7. **Chen X**. Current Status and Future Directions of Adolescent Health Behavioral Research. Invited lecture to 26 graduate students at Beijing Normal University. October 23, 2006. Beijing, China.
8. Societal changes of 100 years in China and their relationship with levels of national health status, the 2nd Symposium of Humanity and Social Sciences & the 6th Symposium of Science, Engineering and Biomedicine, August 29 - September 1, 2014, Daytona Beach Shores, Florida
8. Ren Y*, **Chen X**. Unplanned pregnancy as a risk factor for involuntary tobacco exposure among children from inner-city families. Oral presentation, 137 Annual APHA Meeting, November 7-11, 2009, Philadelphia, PA. (*: a graduate student)
9. **Chen X**, Stanton B, Deavux L, Li X, et al: Long-Term Effect of an HIV Prevention Program among Adolescents –a Cluster Randomized Controlled Trial. 2009 National HIV Prevention Conference, August 23-26, Atlanta, GA.

10. **Chen X.** Behavioral Epidemiology and Risk Behavior Prevention – Past and Present of My Research in the United States. Invited foreign speaker, 2009 National Conference, Chinese Medical Association Behavioral Medicine Branch. November 21-23, 2009, Guangzhou, China.
11. **Chen X.** Pediatric Behavioral Epidemiology, invited presentation to the Seminar of Epidemiology Expertise across Campus, Wayne State University Professional and Academic Developmental Series. April 9, 2010, Detroit, MI.
12. **Chen X, Boueiri E, Li F, and Zhang X.** Quantifying the Process of Nicotine Intake by Addicted Smokers in Natural Settings Using the Fold Catastrophe and Videotaped Data. The 20th Annual Meeting of the Society for Chaos Theory in Psychology and Life Sciences. July 26-28, 2010, San Marcus, Texas.
13. **Chen X.** Tobacco research among Chinese youth across the globe. Invited key note presentation to the first Meeting of the Chinese Youth Health Study Project, June 28-July 2, 2010. Wuhan, China.
14. **Chen X.** Randomized sampling of migrant population with assistance of the GIS/GPS technology. May 12, 2011. Wuhan CDC, China
15. **Chen X.** Quantum change theory and modern behavioral epidemiology. Wuhan University School of Public Health, Nov 29, 2011. Wuhan, China. (URL: <http://sph.whu.edu.cn/a/xinwengonggao/xinwendongtai/20111205/720.html>)
16. **Chen X.** Video digitalized test of nicotine dependence. The First Convention of Wayne State University Wireless Health Initiative (<http://wirelesshealth.wayne.edu>). Detroit, MI November 2, 2011.
17. **Chen X, Stanton B, Li X, and Chen D.** Adolescent intention to use a condom: Is it rational or quantum? Presentation at the 22nd Annual Conference of the Society for Chaos Theory in Psychology & Life Sciences, July 27, 2012, Baltimore, MD.
18. **Chen X.** Network connections, behavior and health. Keynote Speaker, the 60th Anniversary Celebration of Wuhan Centers for Disease Prevention and Control, Wuhan, China. September 28, 2012.
19. **Chen X.** Modeling social behaviors with advanced techniques. The 29th Graduate Students Seminar Series, Huazhong Normal University College of Sociology. October 24, 2013, Huazhong Normal University, Wuhan, China.
20. **Chen X.** Global health: Challenges and opportunities for public health education in the Asia and Pacific. Annual Conference of the 45th Asia and Pacific Academic Consortium for Public Health. October 25-27, 2013, Wuhan, China.
21. **Chen, x.** One-century long dynamic relationship between social change and national health in China, invited special presentation. June 19, 2014. Wuhan University College of Political Science and Public Administration. Wuhan, China.
22. **Chen X.** Manuscript preparation for high impact journals. Special presentation and training, Wuhan Centers for Disease Prevention and Control-Wuhan University Department of Epidemiology and Health Statistics. June 4, 2014. Wuhan, China.
23. **Chen X.** Age-period-cohort modeling and its application in public health research. Wuhan University Department of Epidemiology and Health Statistics. June 17, 2014, Wuhan, China
24. **Chen X.** Understanding of global health and implications for methodology teaching. Special Senior Scholar Presentation, the 3rd Workshop on Textbook Preparation for Global Health Science Undergraduate Program, June 13-15, 2014. Guilin, Guangxi Province, China.
25. **Chen X, Wang PG.** Societal changes of 100 years in China and their relationship with

- national health status. Invited presentation. The 2nd Symposium of Humanity and Social Science & the 6th Symposium of Science, Engineering and Biomedicine, August 29-September 1, 2014.
26. **Chen X**, Chen D. Theory-supported cusp catastrophe modeling methods for analyzing public health data. Oral presentation, the 143 Annual Conference of the American Public Health Association, Chicago, October 31-November 4, 2015.
 27. Chen D.G. & **Chen, X**. Cusp Catastrophe Model and its Application in Public Health Behavior Research. Invited Oral Presentation, the 4th International Symposium on Biostatistics, International Biometric Society-China, Shanghai, China, July 1-2, 2016.
 28. **Chen X** & Chen D. A regression approach toward solving a deterministic cusp catastrophe model. New challenges in complex data analysis at CMStatistics Conference in HKUST, July 8-10, 2017, Hong Kong.
 29. **Chen X**. Population health status in China since 1900s: Age-Period-Cohort modeling analysis. Invited presentation for LuoJia Seminary Series #10, Wuhan University, China, October 30, 2017
 30. **Chen X**. Press freedom, legal protection of LGBT, and HIV epidemic across the globe. Invited presentation for LuoJia Seminary Series #11, Wuhan University, China, November 1, 2017.
 31. **Chen X**. Publish or perish: Becoming a competitive manuscript producer. LuoJia Seminary Series #12, Wuhan University, China, November 3, 2017.
 32. Chen D & **Chen X**. Cusp catastrophe regression model. The Statistics Department Colloquium, University of Southern Carolina, November 9, 2017, Columbia, South Carolina.
 33. **Chen X**. Searching for new ideas and methods to advance medical and health research. Yunan CDC, June 11, 2018, Kunming, Yunnan Province, China.