

# CURRICULUM VITAE

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

## **Home ADDRESSES:**

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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, HI, USA  
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-November, 2012, Wayne State University, Detroit, Michigan  
Write Winning Grants Workshop, August 2003, Wayne State University, Detroit, Michigan.  
Excellence in English Oral Presentation Training, Department of Drama and Performing Art,  
University of Southern California, July-September, 2001, Los Angeles, California  
Application of Structural Equation Models and Mixed Growth Models in Health Behavioral  
Research (April, 2001), University of California at Los Angeles, Los Angeles, California  
Postgraduate Program of International Health (April ~ July, 1989), World Health Organization  
and Zagreb University Collaboration Center, Zagreb, the former Yugoslavia  
Mental Health Research Workshop (June ~ July, 1988), Institute of Mental Health, Chinese  
Academy of Science, Beijing, China

## **FACULTY APPOINTMENTS:**

2014 ~ present: Professor of Epidemiology and Medicine, University of Florida College of Public  
Health & Health Professions and College of Medicine, Gainesville, FL, USA  
2013 ~ present: Adjunct Professor, Wayne State University School of Medicine, Detroit, MI  
2010 ~ 2013: Professor with Tenure, Wayne State University School of Medicine, Detroit, MI  
2003 ~ 2009: Associate Professor, Wayne State University, Detroit, MI, USA  
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 Wuhan, China  
1987 ~ 1989: Assistant Professor, Social Medicine Institute, Tongji Medical University,  
Wuhan, China

### **OTHER PROFESSIONAL APPOINTMENTS:**

- 2014 ~ present: Graduate Faculty, University of Florida Graduate School, Gainesville, FL  
2012 ~ present: Chair Professor of the LuoJia Scholarship, Wuhan University, Wuhan, China  
2011 ~ 2014: Guest Professor, Department of Epidemiology and Biostatistics, Sun Yat-Sen University College of Medicine, Guangzhou, 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, China  
2002: Senior Associate, Abt Associates Inc, Bethesda, MD, 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  
1999 ~ 2003: Member, Association for Prevention Research  
1998 ~ present: Member, American Public Health Association  
2012 ~ 2013: Councilor, APHA Applied Public Health Statistics Section  
1990 ~ 2017: Member, American Statistical Association

### **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 (five years in a row)

### **SERVICES:**

#### University-wide

- 2014 ~ present: Tenure and Promotion Committee Member, College of Public Health and Health Profession, University of Florida  
2014 ~ present: Members for the Faculty Committee, the Curriculum Committee, the Admission Committee, and the Seminar Committee, Department of Epidemiology, University of Florida  
2014 ~ present: Chair, the International Students Committee, College of Public Health and Health Profession, University of Florida  
2014 ~ present: Graduate Student Adviser, MPH Program, College of Public Health & Health Professions, University of Florida  
2014 ~ present: Graduate Student Adviser, PhD Program in Epidemiology and PhD Program in Biostatistics, College of Public Health & Health Professions and College of Medicine, University of Florida  
2013 ~ 2014: Associate Director, the PhD Program of Health Behavior and Promotion, School of Medicine, Wayne State University  
2013 ~ 2014: PhD Program Committee, Department of Psychology, Wayne State University

- 2011 ~ 2013: Member, Academic Council for Junior Faculty Research, Department of Pediatrics, Wayne State University
- 2010 ~ 2013: Member, Fellowship Scholarly Oversight Committee for Neonatology Residents and Fellows, Department of Pediatrics/Children's Hospital of Michigan
- 2010: Distinguished presenter, Pediatric Epidemiology, Professional Academic Development Seminar Series of Epidemiologists across the University
- 2008 ~ 2011: Member, Environment Health Science Center in Molecular and Cellular Toxicology (Environmental Pediatric Research Core), Wayne State University
- 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, Wayne State University
- 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.
- 2002 ~ 2007: Project leader and International Project Coordinator, the USC Transdisciplinary Tobacco Use Research Center
- 1996 ~ 2003: Coordinator, Tobacco Use Prevention among Adolescents across the Pacific Rim: US-China Collaboration Project, University of Southern California (USC)
- 1993 ~ 1996: Director, MPH Program, School of Public Health, Tongji Medical University
- 1993 ~ 1996: Advisor, Tongji Medical University Bollentin (Social Medicine)

#### National and International

- 2015: Governor Council Nominee, the Applied Public Health Statistics Section, the American Public Health Association
- 2015 ~ present: Chair of the Advisory Committee, the Mid-Yangtze River Region Public Health Collaboration Center (four provincial capital cities as participants: Changsha, Hefei, Nanchang and Wuhan), China
- 2014 ~ present: Advisory Committee Member, the Collaboration Center of WHO and People's Health Publication House, Beijing, China
- 2013 ~ present: Standing Member (US side), 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 ~ 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: Partnership Member, the US National Transdisciplinary Tobacco Research Centers (TTURC)
- 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 29<sup>th</sup> APS Conference, May 26-28, 2017, Boston
- 2015: Co-chair, Innovative methods for analyzing public health data, 143<sup>rd</sup> 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 45<sup>th</sup> Annual Conference of the Asian- Pacific Academic Consortium for Public Health (APACPH), Wuhan, China
- 2012: Moderator, Applied Public Health Statistics Section, 140<sup>th</sup> Annual Conference of American Public Health Association

#### Academic Editorship

- 2015 ~ present: Executive Editor-In-Chief, *Global Health Research and Policy*, a peer-reviewed journal partner with BMC series. (UF press release about the position: <http://epidemiology.phhp.ufl.edu/2016/02/25/dr-jim-chen-named-editor-of-global-health-journal/>)
- 2014 ~ present: Standing member, Textbook Editorial Committee for *Global Health Sciences*,
- 2014 ~ present: Editor-In-Chief (US side), Textbook series on *Methodology for Global Health*
- 2007 ~ present: Associate Editor, *Journal of Child and Family Studies*
- 2014 ~ 2016: Guest Editor, *Current HIV Research: the Thematic Issue “Advanced Analytical Methods”*
- 2014 ~ 2016: Academic Editor, *Plos One*  
People’s Health Publication House
- 2013 ~ 2015: Associate Editor-In Chief, *Global Health Journal*
- 2003 ~ 2013: Editorial Board Member (Statistics Backup), *Synopsis: A Current Survey of World Literature in Pediatrics*

#### 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. Health Education and Research
19. Health Policy
20. Health Promotion International
21. Health Psychology and Behavioral Medicine
22. International Journal of Psychological Studies
23. Journal of Adolescent Health
24. Journal of Child and Family Studies
25. Journal of Child Psychology and Psychiatry
26. Journal of Health Care for the Poor and Underserved
27. Journal of Health Communication
28. Journal of Health Psychology
29. Journal of Pediatrics
30. Journal of Health Population and Nutrition
31. Journal of Public Health
32. Journal of Social Science and Medicine
33. Journal of Studies on Alcohol
34. Lancet
35. Neurobehavioral HIV Medicine
36. Nicotine and Tobacco Research
37. Personality and Individual Differences
38. Plos One
39. Prevention Science
40. Preventive Medicine
41. Preventive Medicine Reports
42. Psychology of Addictive Behavior
43. Substance Use Treatment, Prevention and Policies
44. Social Indicators Research
45. Sahara Journal
46. Tobacco Control
47. Vaccine
48. Youth and the Society
49. World Population and Health

#### Grant Proposal Review

2017: Three 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 for career development grants.
- 2016: Two NIH Special Study Sections: 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 (Washington DC), 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: HIV/AIDS Innovative Research Applications
- 2011: Infectious Hong Kong Food and Health Bureau, Research Council, Funding for Disease Control and Health and Health Services Funding
- 2010: NIH/NICHD Social Determinants of Health (R01) Review Panel. HIV related research
- 2010: Infectious Hong Kong Food and Health Bureau, Research Council, Funding for 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 45<sup>th</sup> 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  
1997 ~ 2002: University of Southern California, Los Angeles, CA, USA  
1994 ~ 1996: Tongji Medical University, Wuhan, China  
1987 ~ 1989: Institute of Social Medicine, Wuhan Medical College, Wuhan, China

##### Courses

###### *Graduates and Undergraduates*

2015~ PHC 7009, Advanced Epidemiology Methods III (graduate students)  
2015~ PHC 6943, Social Epidemiology (graduate students, guest teacher)  
2014~ PHC 7934, Epidemiology, Past Present and Future, Seminar Series I (graduate students)  
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) 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) G-rate and its use in study geographic distribution, (10) methods to analyze existing data in general, (11) writing winning proposals, (12) manuscript preparing and journal selection for publication, (13) critical manuscript review for academic journals, and (14) successful development of relationships for collaborative research.  
2003 ~ 2013: Research Design and Advanced Analytical Methods for Behavioral

Epidemiologic Research, Weekly Methodology in Pediatric Prevention Research Center for graduate 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 and 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) method in analyzing secular trend of health risk behaviors; (9) Probability Discrete Event System (PDES) models for behavioral research; (10) Group-based developmental trajectory analysis in behavioral science; (11) Quantum change and chaotic modeling of health risk behavior and evaluation of randomized trials.

2004 ~ 2009: Advanced Statistical Modeling methods (Age-Period-Cohort modeling, Mixed

Effect modeling, Latent Class modeling), Wayne State 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*

2015 ~ now: Kai Wang, PhD student in Epidemiology, primary advisor, focus on epidemiology of prostate cancer to test a grant hypothesis I proposed in 2015: Age-related decline in testosterone is the primary risk for prostate cancer.

2015 ~ now: Yunan Xu, PhD student in Epidemiology, primary advisor, 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 (academic advisor) with focus on infectious disease epidemiology, secured fellowship grant from the Department of Defense to complete PhD training and dissertation research.



- Re-arranged as chair and research advisor in March 2016
- 2017 ~ now: Sadaf Milani, PhD student in Epidemiology, member of Dissertation Committee, advising on advanced methods on age-period-cohort modeling.  
Liu, Yiyan, PhD student in Epidemiology, member of Dissertation Committee, advising on advanced methods for polydrug use  
Kim Jung, PhD student in Nursing, member of Dissertation Committee, focus on advanced analysis of stress, pain and pressure sores among hospitalized patients.  
Min Jie, PhD student in Epidemiology, Academic Advisor  
Verlin Joseph, PhD student in Epidemiology, Dissertation Committee member  
Ayodeji (Deji) Otufowara, PhD student in Epidemiology, Academic Adviser
- 2014 ~ 2017: Jing Liu, PhD student in Biostatistics, co-advisor and member of dissertation committee  
Natalie Kelso, PhD candidate in Epidemiology (adviser and dissertation committee), with focus on cardiovascular disease risks among people living with HIV, and secured NIH training fund (F award) for dissertation research.

#### *Graduated PhD Students*

- 2014 ~ 2016: Chukwuemeka Okafor, PhD candidate in Epidemiology (adviser and dissertation committee), with focus on alcohol use and neurocognitive impairment among people living with HIV, and secured NIH training fund (F award) for dissertation research.  
Jingnan Zhang, PhD student in Biostatistics, co-advisor and member of dissertation committee
- 2014: Stephanie Moody-Geissler, PhD student. 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 candidate, member of Dissertation Committee, providing direct guidance and supervision on data processing, statistical analysis, result interpretation, manuscript development, dissertation development and defense.
- 2006 ~ 2007: Phebe Lam, PhD student: Provided assistance to her training and dissertation research with regard to questionnaire development for adolescent tobacco survey in Hong Kong to collect data and methods for data analysis.
- 2005 ~ 2006: Mathew Cole, PhD student: Provided assistance to his training with regard to 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
- 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.
- 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 with recommendation; provide training on basic research skills, statistical analysis and manuscript development for publication. He is currently admitted to a PhD program on cancer epidemiology by the University of North Carolina.
- 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.
- 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 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 August 2014 and secured funding from China NSF to study social capital and migrant health.
- 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 Kong City University is now preparing for promotion to associated professor.
- 2009: 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 position of Wuhan CDC, China to be in charge of health research and the prevention and control of chronic diseases for Wuhan 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 successful abstract submission and received travel

- allowance in  
2008 to attend the Annual Meeting of the Society for Prevention Research
- 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 E<sub>1</sub> infusion and hypertension in neonates.

### *Junior Faculty Members*

- 2016~present: Catherine Strilley, 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.
- 2007 ~ 2012: 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

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

### Course Development

2014 ~ 2015: Advanced Epidemiologic Methods III, 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 College) School of Public Health, Wuhan, China

1988~89: Behavioral Medicine, core course for Undergraduate Correspondence Education Program, Wuhan Medical College, Wuhan, China

### **GRANT, CONTRACTS, AND OTHER FUNDING**

#### Active National/International Grants and Contracts

1. Quantum change and HIV risk behavior among US adolescents and young adults  
Funding source: NIH/HICHD (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 modeling methodology.
2. 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  
Total direct costs: \$1,9 million  
Role: Principal Investigator  
Goal: Obtaining random samples using PIS/GPS technology to describe the prevalence of HIV risk behavior among rural migrants in China and to assess migration-related social capital change as it related to the risk behaviors for prevention intervention.
  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. The impact of long-term marijuana use on the neurocognitive functioning of individuals living with HIV  
Funding source: HIH/NIDA (Award #: F31DA039810)  
Total direct cost: \$75,398  
Period: 07/01/2015 – 06/30/2017  
Principal Investigator: Okafor  
Role: Mentor  
Major goal: Investigate the longitudinal pattern of marijuana use and its relationship with cognitive impairment among persons living with HIV/AIDS with data from two longitudinal cohorts.
  5. 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.
  6. 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  
Principle investigator: Leeman  
Role: Co-Principal Investigator

Pending State/National/International Grants and Contracts

1. 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  
Major goal: Determine secondhand marijuana exposure in children after passage of the medical marijuana laws in Florida in 2016.  
Role: PI (25% effort)
2. A new method to correct social desirability bias in HIV survey research  
Funding source: NIH/NIMH  
Period: 04/01/2016-03/31/2021  
Total direct cost: \$1.5 million  
Major goal: Determine a construal level theory based method in survey studies to obtain more reliable data on sensitive topics (sex, alcohol, drugs, stigma, condom use etc.) in survey studies for HIV research.  
Role: PI (25% effort)
3. Medical marijuana laws and adolescent marijuana use  
Funding source: NIH/NIDA  
Period: 07/01/2015-06/30/2020  
Total direct cost: \$1.65 million  
Status: First submission, December 2014  
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.  
Role: Contact PI (Co-PI: Chen D)
4. Modeling of multi-health risk behavior among adolescents with the probabilistic discrete event system methods  
Funding source: NSF/CBET-Biomedical Engineering (NSF Proposal #: 0755741) Period: 06/01/2015 – 05/31/2019

Total direct cost: \$587,285

Role: Co-PI (multiple-PI project)

Status: First submission in December 2014.

Major goal: To establish models capable of quantifying the population dynamics of multi-risk behaviors among adolescents, including alcohol use, cigarette smoking, hardcore drug use.

5. Meta- and mega-analysis of substance use from multiple national surveys

Funding source: NIH/NIDA

Period: 09/01/2017 – 08/31/2022

Total direct cost: \$1.15 million

Role: Contact-PI (multiple-PI project)

Status: Submitted in Oct 2016.

Major goal: Create and apply innovative methods to obtain consistent estimates of substance use rate based on data from multiple national surveys.

6. Social and phylogenetic study of an HIV-1 hotspot in Wuhan, China

Funding source: NIH/NIAID (RFA-AI-16-006)

Period: 07/01/2017 – 05/31/2022

Total direct cost: \$1.0 million

Role: Contact-PI (multiple-PI project)

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.

#### Previously funded Grants and Contracts

1. 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

2. 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

3. 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

4. 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

Role: Co-Principal Investigator

5. 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
6. Computer Motivational Interventions to Improve Diabetes Care in Minority Youth  
 Founding Source: NIH/NIDDK (R21 DK089238)  
 Period: 4/2011-3/2013  
 Principle Investigator: Ellis  
 My Role: Co-Investigator, responsible for research design, measurement, guidance for statistical analysis, result interpretation and manuscript development
  7. 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
  8. 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: Biostatistician
  9. 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
  10. 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
  11. 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
  12. Utility of end tidal carbon dioxide (ETCO<sub>2</sub>) 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
13. 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 on the project: Biostatistician
  14. Gene tobacco interactions on child behavioral and cognitive development  
Funding source: Wayne State University Institute for Population Studies, Health Assessment, Administration, Services and Economics (INPHAASE)  
Period: 10/01/2008 ~ 12/31/2009  
Total direct costs: \$98,000  
Principal Investigator: Kimbley Woodcroft  
Role Co-Principal Investigator
  15. 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
  16. 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: As a statistician to provide assistance on design and data analysis for this evaluation project for medical student training.
  17. 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 (INPHAASE)  
Period: 09/10/2007~08/30/2008  
Total direct costs: \$100,000  
Principal Investigator: Li  
Role: Co-Investigator
  18. 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
  19. Bereavement and psychosocial needs of AIDS orphans: A longitudinal assessment  
Funding source: NIH/NIM  
Period: 09/01/2005~ 08/31/2009  
Total direct cost: \$1.3

- million Principal  
Investigator: Li Role: Co-  
Investigator
20. 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
  21. 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
  22. Hypotension following prostaglandin E<sub>1</sub> 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
  23. 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 (INPHAASE)  
Total direct costs: \$100,000  
Period: 05/01/2004 ~10/31/2005  
Principal Investigator: Abbey  
Role: Co-Investigator
  24. 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
  25. 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
  26. Social stigma and mental health symptoms in migrant workers  
Funding source: NIH/FIC  
Period: 09/01/2003 -  
08/31/2006  
  
Principal Investigator: Li  
Role: Co-Investigator
  27. 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
28. 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
29. 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
30. 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.
31. Social science and vaccines  
Funding source: International Vaccine Institute (IVI)  
Period: 01/06/2000 ~ 12/31/2005  
Principal Investigator: Stanton  
Role: Co-Investigator
32. 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
33. 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
34. Educational smoking prevention intervention trial  
Funding source: Chinese National Science Foundation  
Period: 2000~2002  
Principal Investigator: Fang  
Role: Co-Investigator
35. 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  
 Major goal: This project intends to examine the effect of acculturation on adolescent smoking using data collected from California Tobacco Control Program.
36. Longitudinal adolescent smoking behavior survey  
 Funding source: Huo Yindong Foundation, China  
 Period: 2000~2002  
 Principal Investigator: Fang, China collaborator  
 Role: Co-Investigator
  37. 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
  38. 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
  39. 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
  40. 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
  41. 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
  42. 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
43. 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
  44. 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 (subcontract from the Gallup)  
Role: Co-Investigator and Evaluator
  45. 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
  46. 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
  47. 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  
Funding source: NIH/NIAID (RFA-AI-16-006)  
Period: 12/01/2016 – 11/30/2022  
Total direct cost: \$1.0 million  
Role: Contact-PI (multiple-PI project)  
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.  
Role: Co-I (methodologist), 10% effort
3. Distress tolerance, sudden relapse and recidivism in substance using offenders



- (R01) Funding source: NIH/NIDA  
 Period: 04/01/2014-03/31/2019  
 Total direct cost: 1.2 million  
 Role: PI (Contact PI from University of South Florida)  
 Major goal: Assess the role of distress tolerance in the relapse of substance use and recidivism of substance use offenders using the cusp modeling method I adopted for behavioral research. Note: This is a joint project with the contact PI from the University of South Florida. First submission received a priority score of 42, 21 percentile. Revision is under way for resubmission on July 5<sup>th</sup>.
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) Funding source: NIH  
 Period: 07/01/2014~06/31/2019  
 Total direct costs: ~\$2 million  
 Role: Co-Investigator and Biostatistician.
6. Research Training in Developmental Transitions in Urban Children and Adolescents (T32)  
 Funding source:  
 NIH/NICHHD Period:  
 09/2011 – 08/2016  
 Total direct cost: \$1.2 million  
 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.  
 Role: Co-Investigator and Mentor
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 system  
 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-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  
 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 methods to model health risk behavior in general using the probabilistic discrete event method from engineering.
  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 (24<sup>th</sup> percentile) after the second revision, within the

- payline set forth by NIH in 2003 and before), but not receive funding due to the tight NIH budget. The purpose of this project is to conduct an epidemiological survey study 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, was responded to an RFA, 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**, Wang Y (2017). Shifting in acceptance of cigarettes, alcohol, marijuana, and opiates among US youth from 2000 to 2015: Evidence from differential item functioning analysis of the National Survey on Drug Use and Health. Under preparation.
2. **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.
3. **Chen X**, Yu B et al. Historical trends in marijuana use among adolescents and young adults in the United States: Hierarchical age-period-cohort analysis of the National Survey on Drug Use and Health. Under preparation.
4. Chen X, Wang Y, Chen D et al (2017). Quantum characteristics of binge drinking among adolescents – an generalized cusp modeling analysis of the Monitoring The Future data. Under preparation.
5. **Chen X**, Elliot A, Wang S. (2017) Cross-country association between national freedom-of-the-press and prevalence of persons living with HIV: Implications for global strategy against HIV/AIDS. *Global Health Research and Policy*. Submitted.
6. **Chen X**, Li Z, Sun Y, Li Z, Yu B, Gao D, Wang PG (2017). Historical trends in suicide mortality of residents in Mainland China – A theory-guided APC modeling of archived 1987-2012 national suicide mortality rates (to be submitted by July 31).
7. Chen D & **Chen X**. (2017) Recocile results from meta-analysis of summary data and mega-analysis of individual participant's data: A unified likelihood approach,
8. **Chen X, Yu B, Chen X Stanton et al**. Threshold estimation with cusp catastrophe modeling methods to assess the co-impact of HIV knowledge, condom use skills, peer influences on condom-use intention among youth. Under preparation
9. Wang Y, **Chen X**. Reducing social desirability bias in survey study: Application of a construal level theory-based method in assessing sexual openness among Chinese rural residents. *Psychometric Methods*, to be submitted later in 2017.
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244. 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* (formerly *Tongji Medical University Bulletin*) July-August 1986; 4: 64-67.
245. 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).
246. 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 10<sup>th</sup> China and Dutch Friendship Week of Medicine, October 12-19, 1995, Berlin, Germany
2. **Chen X**, Unger JB, Johnson CA, Cruz TB. Asian American youth Smoking Pattern and its relation with acculturation. 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, 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. 126<sup>th</sup> 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? 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. 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. 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. Society of Behavioral Medicine. March 24-26, 1999. San Diego, CA.
10. Unger JB, Rohrbach LA, Cruz TB, **Chen X**, & Johnson CA. Attitudes toward anti-

- tobacco policy among California youth: Associations with smoking status, psychosocial variables, and advocacy actions. 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 128<sup>th</sup> 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 11<sup>th</sup> 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 11<sup>th</sup> 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. 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. 129<sup>th</sup> 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 7<sup>th</sup> 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 7<sup>th</sup> 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. 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. 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. 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. 132 APHA Annual Meeting, November 6-10, 2004, Washington DC.
25. Yang H, Li X, Liu H, **Chen X**, Stanton B. Venue pattern of HIV-related sexual behaviors and perceptions among female migrant workers. 132 APHA Annual Meeting, November 6-10, 2004, Washington DC.
  26. Yan H, Li X, Stanton B, **Chen X**, et al. Internet Usage among Chinese College Students: Implications for Sex Education and HIV Prevention. 132 APHA Annual Meeting, November 6-10, 2004, Washington DC.
  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 17<sup>th</sup> 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. 1<sup>st</sup> 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. 2007 European Control Association. Oral presentation and preceding publication. Kos, Greece. July 2-5, 2007.
  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. 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 2<sup>nd</sup> 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. 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. 2009 Pediatric Academic Societies' Annual Meeting. May 2-5, 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. 49<sup>th</sup> Annual Midwest Society for Pediatric Research Scientific Meeting. Cleveland, Ohio. October 15-17, 2008.
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. Annual scientific meeting of the American college of Gastroenterology, Orlando, Florida. October 3 – 8, 2008
42. **Chen X** and Woodcroft BK. Polymorphisms in metabolic genes CYP1A1 and GSTM1 and quitting smoking during pregnancy. 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. 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. 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. 16<sup>th</sup> 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. 16<sup>th</sup> Annual Meeting of 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? 26<sup>th</sup> Annual Kalamazoo Community Medical and Health Sciences Research Day, Kalamazoo, MI, April 16, 2008.
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. 2008 Annual Meeting, Society for Academic Emergency Medicine, May 29 – June 1, 2008, Washington, DC.
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. 2008 Annual Meeting, Society for Academic Emergency Medicine, May 29 – June 1, 2008, Washington, DC.
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, 2008 Pediatrics Academic Society, May 2-7, 2008. Honolulu, HI.
51. Siddiqui 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 43<sup>rd</sup> 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. 20<sup>th</sup> 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. 2009 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. 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. 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 AdverseEvents. 2010 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. 43<sup>rd</sup> 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 138 APHA Annual Meeting and Exposition, 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. 2011 APHA Meeting. October 29-Novemehr 2, Washington DC.
  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. 2011 PAS, April 30 to May 3, Denver, Colorado.
  68. **Chen X**. Life-course linked risk of cigarette smoking among US youth transitioning to young adulthood. The 23<sup>rd</sup> 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, Boston, Massachusetts, April 28-May 1, 2012.
  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 5<sup>th</sup> 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 22<sup>nd</sup> 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 140<sup>th</sup> 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 DC.
  74. **Chen X**, Chen D. Dual-process systems theory-guided cusp modeling of adolescent sexual behavior progression. The 23<sup>rd</sup> 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 23<sup>rd</sup> 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 142<sup>nd</sup> American Public Health Association Annual Meeting and Exposition, 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 27<sup>th</sup> 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 27<sup>th</sup> 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 25<sup>th</sup> 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. 20<sup>th</sup> 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? Present to the the 22<sup>nd</sup> 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 60<sup>th</sup> 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 29<sup>th</sup> 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 45<sup>th</sup> 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 3<sup>rd</sup> 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 2<sup>nd</sup> Symposium of Humanity and Social Science & the 6<sup>th</sup> 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. Invited presentation for the Statistics Department Colloquium, University of Southern Carolina, November 9, Columbia, SC.