

# CURRICULUM VITAE

**Xinhua Yu, MD PhD**

**Associate Professor (with tenure)**

Office: 305 Robison Hall, 3825 Desoto Ave, Memphis, TN 38152  
Division of Epidemiology, Biostatistics & Environmental Health  
School of Public Health, University of Memphis  
Phone: 901-678-3433 (office); 612-910-1710 (cell)  
Email: [xyu2@memphis.edu](mailto:xyu2@memphis.edu); [yu.xinhua@gmail.com](mailto:yu.xinhua@gmail.com)

## RESEARCH INTERESTS

- Disability, physical and functional limitation, and quality of life
- Mental health, substance abuse prevention, and neurological diseases in the population
- Social determinants of health, education, employment, income
- Healthcare data mining, systems science, and causal inference in machine learning
- Quality of health care among Medicare and Medicaid population
- Cancer epidemiology, prevention, and survivorship
- Public health emergency preparedness and management, infectious disease modeling, and assessing public health intervention strategies
- Nutrition epidemiology, obesity, physical activity, and health wellness

## EDUCATION

June, 2008    **MS, Statistics**  
School of Statistics, University of Minnesota, Twin Cities, MN  
Thesis: Generalized Linear Mixed Model with Crossed Random Effects  
Advisor: Dr. Sanford Weisberg

June, 2003    **PhD, Epidemiology**  
Division of Epidemiology and Community Health  
School of Public Health, University of Minnesota, Twin Cities, MN  
Dissertation: Environmental and Genetic Correlates of Obesity  
Advisors: Drs. Pamela J. Schreiner, David R. Jacobs, Jr.

July, 1994    **Bachelor of Medicine, Preventive Medicine (MD)**  
Shanghai Medical University (now Medical College at the Fudan University)  
Shanghai, China

**PROFESSIONAL EXPERIENCE**

- Sept. 2015 – Associate Professor (with tenure)  
Coordinator, Epidemiology PhD and MPH program (2015 - )  
Coordinator, School of Public Health online program (2024 - )  
Chair, Recruitment and Admission Committee of the School of Public Health (2022 - )
- 2010 – 2015 Assistant Professor  
School of Public Health, University of Memphis, TN  
Division of Epidemiology, Biostatistics and Environmental health
- 2009 – 2010 Assistant Professor  
Health Professions Division, Nova Southeastern University, FL  
Public Health Program, College of Osteopathic Medicine
- 2003 – 2009 Research Associate  
School of Public Health, University of Minnesota, Twin Cities, MN  
Division of Health Policy and Management
- 1999 – 2003 Research Assistant  
School of Public Health, University of Minnesota, Twin Cities, MN  
Division of Epidemiology and Community Health
- 1994 – 1999 Instructor  
School of Public Health, Shanghai Medical University, Shanghai, China  
Department of Epidemiology
- Spring 1994 Public Health (Preventive Medicine) Internship  
Disease Prevention District Center, Shanghai South City District, Shanghai, China
- 1992 – 1993 Clinical Internship/rotation  
Shanghai 5th Hospital (Tertiary referral hospital), Shanghai, China  
Including internal medicine, cardiology, oncology, surgery, and pediatrics

**TEACHING EXPERIENCE****University of Memphis, Memphis, TN**

School of Public Health

Graduate level courses:

- 2024 – Epidemiology of Infectious Diseases (Spring, online)  
2021 – Epidemiology of Chronic Diseases (Fall, online)  
2021,22 Epidemiology I (Fall, online, for St. Jude Research Hospital)  
2017 – Special topics for critical readings in Epidemiology (Spring & Fall, on-demand)  
2016 – Introduction to Human Diseases in Public Health (Spring).  
2016,18,20,23 Cancer Epidemiology (Spring, alternate year).  
2015 – Epidemiology in Public Health I. Onsite (Fall, 2015, 2016) and Online (Summer and Fall).  
2013 – Epidemiology PhD Compressive exam advanced review sessions (Spring & Summer).

- 2013 – Master's Project Seminar (Spring, co-teaching).
- 2013 Epidemiological Survey Methods. Online (Spring, co-teaching).
- 2012, 14 Epidemiology in Public Health II (Fall).
- 2011 – Epidemiology of Chronic Diseases (onsite, Fall till 2018, Spring in 2019, 2020)
- 2010 – Public Health Research (independent study).

Undergraduate level courses:

- 2024 – Fundamental Population Health Informatics (Spring, onsite)
- 2023 – Health Data Analytics and Informatics (Fall & Spring, onsite and online)
- 2019 – Public Health Research and Analytics (I & II) (Fall & Spring, onsite and online)

Workshops:

- 2021 Public Health Summer Institute, one day on assessing & modeling COVID-19 (online)
- 2019 Public Health Summer Institute, one day causal inference workshop
- 2018 Micro-module method in teaching epidemiology
- 2017 Public Health Summer Institute, one day workshop on data analysis using Stata
- 2016 Three-lecture series on causal inference

**Nova Southeastern University, Fort Lauderdale, FL**

Public Health Program

Graduate courses

- 2010 Community Health Assessment (Summer, online).
- 2009 – 2010 Epidemiology I (Fall, Spring, online and onsite).

**University of Minnesota, Twin Cities, MN**

Division of Health Policy and Management, School of Public Health

- 2004 Community Health Assessment (Graduate course), (Spring, guest lecturer)

**University of Minnesota, Twin Cities, MN**

Division of Epidemiology and Community Health, School of Public Health

- 2002 Epidemiology I (graduate course), (Fall, teaching assistant)

## MENTORING EXPERIENCE

**University of Memphis, Memphis, TN**

School of Public Health

- 2010 – Mentor to 40+ MPH students  
(also serve as the instructor for MPH project seminar course every spring, each year mentor 10-12 students)  
Major advisor to 6 PhD students, four have graduated.  
Co-advisor to 6 PhD students, four have graduated.
- 2020 – 2023 Mentoring about 10 Master level Data Science students per year

**Nova Southeastern University, Fort Lauderdale, FL**

Public Health Program

2009 – 2010 Mentor to 7 MPH students, 3 of them graduated

2009 – 2010 Preceptor for student fieldwork at Broward Regional Health Planning Council

**University of Minnesota, Twin Cities, MN**

Division of Health Policy and Management, School of Public Health

2003 – 2009 Co-Advisor for graduate students in health services research

**RESEARCH GRANTS & CONTRACTS**

US Department of Education: Project FIRST (Finding Innovative Rehabilitation Services Training). Department of Education Grant CFDA NO.84.263 C).

Subcontract with University of Memphis Institute of Disability (UMID)

Role: Investigator. 10/2019-10/2025. 10% efforts. \$20,000/year

Department of Defense (PRARP): Mild traumatic brain injury (mTBI) and risk of dementia among VA population. Subaward with University of Tennessee Health Science Center (Veteran Affairs System)

Role: PI (UofM site), 9/1/2019-9/30/2024 (no-cost extension 2024). 10% efforts. \$10,000/year

West Cancer Foundation: Creation of a Patient-Reported Outcome Database with a Focus on the Correlation of Self-Reported Depression Screening to Clinical Outcomes.

Role: PI. 10/1/2022 – 9/30/2024. \$89,000

Robert Wood Johnson Foundation: University of Memphis: Eradicating Systemic Racism and Promoting Social Justice through Academic Public Health.

Role: Investigator. 6/1/2022-8/1/2025. 5% effort

City of Memphis: COVID-19 Seroprevalence Survey in Shelby County.

Role: PI. 11/2020-8/2021. \$10,000

University of Memphis, Data Science Cluster: Predicting short-term mortality in lung cancer patients.

Role: PI. 4/1/2019-3/31/2020. \$15,000

University of Tennessee HSC: Department of Clinical Pharmacy. Community Pharmacy Evaluation

Role: PI (UofM site). 5/1/18-12/31/18. \$7,500 (sub award)

University of Tennessee HSC: School of Pharmacy. Analysis in Treatment of Vulvodynia

Role: PI (UofM site). 12/01/17-11/30/18. \$10,000 (sub award)

University of Tennessee HSC: iRISE - Institute for Research, Innovation, Synergy, and Health Equity - CTSA (J. McCullers (PI) James Gurney (site PI))

Role: Investigator. 20% effort. 06/01/16-06/30/18. \$40,000 (sub award)

Memphis Research Consortium (MRC): Quality of care in lung cancer among US elderly

Role: PI. 1/2016-6/2017 \$22,000

PCORI: Multidisciplinary Bridge across the Quality Chasm in the Thoracic Oncology

Role: Investigator (UofM site PI), 7% effort, April 2014 to April 2016. (PI: Raymond Osarogiagbon)

NIH/NCI (R01CA172253): Dissemination and implementation of a corrective intervention to improve mediastinal lymph node examination in resected lung cancer

Role: Investigator (UofM site PI), 10% effort, April 2013 to April 2016. (PI: Raymond Osarogiagbon)

Baptist Healthcare Memorial Foundation: Health Care Utilization and Cost among Elderly with Alzheimer's disease, under the project "Community Assessment of Alzheimer's Disease".

Role: Co-PI. 06/01/2011-05/31/2012. \$100,000

University of Memphis Faculty Research Award: Quality of Care in Mental Health among Elderly Medicare Beneficiaries with Depression

Role: PI, 06/01/2011-05/31/2012. \$6,500

University of Memphis SPH: Health Disparities in Health Services Use in Shelby County.

Center for Health Equity Research and Promotion (CHERP)

Role: PI, 2011-2012. \$5,500

Nova Southeastern University, FL. Treatment Patterns for Depression among Elderly Medicare Population. (Chancellors Faculty Research and Development Grant)

Role: PI. 2010. \$10,000

## UNIVERSITY SERVICES & COMMUNITY ACTIVITIES

### University of Memphis, School of Public Health

2024 – UofM SPH, Online program coordinator  
 2023 – UofM SPH, Coordinator of Epidemiology PhD and MPH program  
 2023 – UofM SPH, School Strategic Development Committee  
 2022 – UofM SPH, Member of Leadership Council  
 2022 – UofM SPH, Chair of Recruitment and Admission Committee  
 2021 – UofM SPH, Diversity, Equity, and Inclusion Research Team (RWJ project)  
 2021 – Member of School of Public Health Dean Search Committee  
 2021 – Panel organizer on COVID-19 in the Memphis data science annual meeting  
 2019 – Member of UofM Graduate Study Council  
 2019 – Member of UofM Teaching & Learning Advisory Committee  
 2019 – Member of SPH Graduate Study Council  
 2019 – Member of UofM Bachelor of Science Public Health (BSPH) program committee  
 2018 – Core member of UofM Data science cluster  
 2015 – Coordinator of Epidemiology PhD program  
 2013 – Epidemiology PhD Exam Committee (chair)  
 2012 – University of Memphis faculty research award reviewer committee  
 2012 – 2015 – Member of Research Computing Advisory Committee (university wise)  
 2010 – 2013 – Member of Biostatistics Faculty Search Committee

- 2010 – Member of Epidemiology Faculty Search Committee  
 Member of Epidemiology PhD Admission Committee

### **Community Committees:**

- 2021 Shelby County COVID-19 Safety-Net testing team (Community clinics) (member)  
 2020 – Shelby County Opioid & substance abuse data user committee (member)  
 2019 – Tennessee Violence Data Report System (TNVDR) Advisory Committee

### **COVID-19 Media Report and Public Communications:**

- 2020 – Daily Memphian, Commercial Appeal, Oregon Public Radio, local Memphis News Channel 5, Fox 13, Slate, Washington News Bureau (Gray TV), Shelby County Health Department, and University of Memphis

### **Broward Regional Health Planning Council, FL**

- 2009 – 2010 Member of Broward County Health Planning Committee

### **Nova Southeastern University, FL, Public Health Program**

- 2009 – 2010 Member of Admission Committee, Curriculum Development Committee, Student Progress and Advancement Committee  
 2009 – 2010 Statistical Consultant  
 2009 – 2010 Faculty Interviewer for medical student admission

### **Greater Memphis United Chinese Association, Memphis, TN**

- 2014 – 2022 President  
 2014 – Board member

### **Greater Memphis Chinese School (300+ students), Memphis, TN**

- 2011 – 2021 School administrator

### **Minnesota Minghua Chinese School (400+ students), MN**

- 2006 – 2009 School Administrator

### **AD HOC REVIEWER EXPERIENCE**

- 2008 – BMC Public Health, Medical Oncology, BMC Health Services Research, PLOS One, BMC Cancer, International Journal of Environment and Public Health (Associate Editor since 2021). Gerontology and Geriatric Medicine, Helion, Mathematical biomedical Engineering, Anesthesia & Analgesia, Gynecologic Oncology, Journal of Cancer Survivorship (Associate editor till 2021) Journal of Urology, Journal of Clinical Oncology
- 2018 – External grant reviewer for Pennsylvania Department of Health COVID-19 proposals organized by Oak Ridge Associated Universities (ORAU), and Florida Department of Health Alzheimer's Disease proposals
- 2010 – External reviewer of meeting abstract for APHA annual meetings

## PROFESSIONAL DEVELOPMENT

### University of Memphis, TN

Summer 2020 Universal design for learning (UDL) for online teaching, University of Memphis  
 April 2017 Casual mediation analysis (Dr. Tyler VanderWeele), two day workshop  
 Spring 2017 Leadership in Memphis (six month community engagement training)  
 2012 – Faculty learning on teaching, researching, and working  
 Aug 2010 Research Ethics Training

### Nova Southeastern University (through Citiprogram.org)

July 2009 Research Ethics Training

### University of Minnesota, Research Data Assistance Center

May, 2005 Using SEER-Medicare Data for Research (one day workshop)  
 Oct, 2003 Introduction to the Use of Medicare Data (two and half day workshop)

### AcademyHealth Health Services Research Methods Workshop

June, 2003 Risk Adjustment in Health Services Research (one day research seminar)

### University of Minnesota

Division of Epidemiology and Community Health, School of Public Health,  
 Spring, 2002 Teaching in Epidemiology (semester long course)  
 May, 2001 Ethics in Human Research (one day workshop)

## PROFESSIONAL MEMBERSHIP

2008 – Sigma Xi Scientific Society. Full member, Epidemiology  
 2003 – AcademyHealth Association, Health Services and Policy Research  
 2002 – American Public Health Association. Epidemiology

## HONORS AND AWARDS

2009 – Member. Delta Omega Honorary Society of Public Health  
 1998 Lianbang Medicine Prize. Shanghai Medical University, Shanghai, China

## PUBLICATIONS (peer-reviewed)

(\* indicates students/trainees)

1. **Yu, X.**; Gain, E.P.; Ajoku, M.J.; Kedia, S.K. Bidirectional Associations Between Alcohol Drinking and Depressive Symptoms Among US Adults Aged 50 to 75: The US Health and Retirement Study.

*Healthcare* 2025, 13, 53. <https://doi.org/10.3390/healthcare13010053>

2. **Yu X.**, Krolik P., Zhang X., Shiro-Geist C., Cai J., Tippireddy JR, Nandiki S. Differences in the Quality of Employment Placement for Vocational Rehabilitation Clients with Disabilities by Counselor's Certified Rehabilitation Counselor Status. *Journal of Forensic Vocational Analysis*. 2024(4).
3. Gain EP\*, **Yu X.**, Kedia SK, Naser AM, Bromley MI, Ajoku M, Mou X. Discontinuation of Antidepressants and the Risk of Medication Resumption among Community-Dwelling Older Adults with Depression in the US. *Int J Environ Res Public Health*. 2024 Sep 13;21(9):1209. doi: 10.3390/ijerph21091209. PMID: 39338092; PMCID: PMC11431487.
4. Chen J, Chen S, Lv H, Lv P, **Yu X.**, Huang S. Using part of the initial analgesic dose as the epidural test dose did not delay the onset of labor analgesia: a randomized controlled clinical trial. *BMC Pregnancy Childbirth*. 2024 Apr 8;24(1):254. doi: 10.1186/s12884-024-06475-2. PMID: 38589777; PMCID: PMC11000377.
5. **Yu X.**, Krolik P., Zhang X., Shiro-Geist C., Cai J. Disparities in Case Closure Rates by Counselor's Caseload Levels for Clients with Intellectual and Developmental Disabilities. *Journal of Forensic Vocational Analysis*. 2024(1)
6. **Yu X.**, Gain EP, Kedia SK. Bidirectional associations between alcohol drinking and depressive symptom scores among US older adults. *Journal of Affective Disorders*. 2024. (349). <https://doi.org/10.1016/j.jad.2024.01.004>.
7. **Yu X.**, Shiro-Geist C., Krolik P., Zhang X., Cai J. Disparities in the Quality of Employment Placement and Live Wage Employment by Counselor's Training and Caseload among Their Clients with Disabilities. *Journal of Forensic Vocational Analysis*. 2024(1)
8. Terui S., Goldsmith JV, Huang J, Yang CC, **Yu X.**, Deng LY, Wicke R. Validating the Communicating Care Needs Tool for HIV (CCNT-HIV), *Journal of Health Communication*, 2023, 28:12, 805-814, DOI: 10.1080/10810730.2023.2271876
9. **Yu X.**, Krolik P., Zhang X., Shiro-Geist C., Cai J, Harms B. Vocational rehabilitation counselors with a moderate caseload achieved the highest employment closure rates for clients with disabilities. *Rehabilitation Research, Policy, and Education*. 2024 (accepted)
10. Bromley MI\*, Gain EP, Kedia SK. Mzayek F, Ray M, **Yu X.** Burden of chronic and heavy opioid use among elderly community dwellers in US. *Am. J. Prev. Medicine focus*. 2024
11. **Yu X.**, Shiro-Geist C., Krolik P., Zhang X., Shiro-Geist C., Cai J. Disparities in the subminimum wage employment among vocational rehabilitation clients: roles of vocational rehabilitation counselors. *Journal of Rehabilitation*. December, 2023(4)
12. **Yu X.**, Shiro-Geist C, Zhang X., Harmon, MJ, Kansakar Y, Krolik P., Goodwell ML. Having a master's degree in Rehabilitation Counseling Leads to Higher Closure Rates Among Persons With Intellectual and Developmental Disabilities From the Outcome Based Perspective. *Journal of Applied Rehabilitation Counseling*. 2023 (4)



13. Guo M., Vanderwalde AM, **Yu X.**, Vidal GA, Tian G. Immune Checkpoint Inhibitor Rechallenge Safety and Efficacy in Stage IV Non-Small Cell Lung Cancer Patients After Immune-Related Adverse Events. *Clinical Lung Cancer*. 2022, <https://doi.org/10.1016/j.clcc.2022.07.015>.
14. **Yu X.**, Shiro-Geist C, Zhang X., Harmon, MJ, Kansakar Y, Krolik P., Williams M, Goodwell ML, Cozort S. The Outcome-Based Perspective: Benefits of Field-Specific Rehabilitation Counselor Education. *Journal of Forensic Vocational Analysis*. 2022 (1)
15. Yang C\*, Meng Q, Cheng Y, Huang S, **Yu X.** Effect of maternal body mass index on the prophylactic dose of phenylephrine for preventing hypotension in parturients after spinal anaesthesia. *Anaesth Crit Care Pain Med*. 2022 Feb 16;41(2):101035. doi: 10.1016/j.accpm.2022.101035. Online ahead of print.
16. Wang C, Sun S, Jiao J, **Yu X.**, Huang S. Effects of delta-opioid receptor agonist pretreatment on the cardiotoxicity of bupivacaine in rats. *BMC Anesthesiol*. 2022 Jan 12;22(1):19. doi: 10.1186/s12871-022-01568-x.
17. Jones DH\*, **Yu X.**, Guo Q, Duan X, Jia C. Racial Disparities in the Heavy Metal Contamination of Urban Soil in the Southeastern United States. *Int J Environ Res Public Health*. 2022 Jan 19;19(3):1105. doi: 10.3390/ijerph19031105.
18. Wang Y, Gieschen H, Greenberger M, **Yu X.**, Tian G, VanderWalde N, Stockstill T, Farmer M, Rinker L, Izaguirre EW, Somer B, Ballo MT. Survival After Robotic-assisted Prostatectomy for Localized Prostate Cancer: An Epidemiologic Study. *Ann Surg*. 2021 Dec 1;274(6):e507-e514. doi: 10.1097/SLA.0000000000003637.
19. Ahuja N\*, Kedia SK, Dillon PJ, Jiang Y, **Yu X.** Perception and intention of using less harmful and less addictive hypothetical modified risk tobacco products among never tobacco users in the united states. *Addict Behav*. 2021 Nov;122:107016. doi: 10.1016/j.addbeh.2021.107016. Epub 2021 Jun 10.
20. Chan RJ, Nekhlyudov L, Duijts SFA, Hudson SV, Jones JM, Keogh J, Love B, Lustberg MB, Mehnert-Theuerkauf A, Nathan P, Ness KK, Sheppard VB, Smith K, Tevaarwerk A, **Yu X.**, Feuerstein M. Future research in cancer survivorship. *J Cancer Surviv*. 2021 Oct;15(5):659-667. doi: 10.1007/s11764-021-01102-x. Epub 2021 Aug 30.
21. Jia C, Holt J, Nicholson H, Browder JE, Fu X, **Yu X.**, Adkins R. Identification of origins and influencing factors of environmental odor episodes using trajectory and proximity analyses. *J Environ Manage*. 2021 Oct 1;295:113084. doi: 10.1016/j.jenvman.2021.113084. Epub 2021 Jun 19.
22. Yang C, Cheng Y, Liu S, Huang S, **Yu X.** Effect of Preoperative Oral Carbohydrate Loading on Body Temperature During Combined Spinal-Epidural Anesthesia for Elective Cesarean Delivery. *Anesth Analg*. 2021 Sep 1;133(3):731-738. doi: 10.1213/ANE.0000000000005447.
23. Chavan PP\*, Kedia SK, Mzayek F, Ahn S, **Yu X.** Impact of self-assessed health status and physical and functional limitations on healthcare utilization and mortality among older cancer survivors in US. *Aging Clin Exp Res*. 2021 Jun;33(6):1539-1547. doi: 10.1007/s40520-020-01654-5. Epub 2020 Jul 24.

24. Kedia SK, Schmidt M, Dillon PJ, Arshad H, **Yu X**. Substance use treatment in Appalachian Tennessee amid COVID-19: Challenges and preparing for the future. *Journal of Substance Abuse Treatment*. Volume 124, May 2021, 108270
25. **Yu X**. Health service inequalities during the COVID-19 pandemic among elderly people living in large urban and non-urban areas in Florida, US. *Sage Open Medicine*. 2020
26. **Yu X**. Modelling the return of the Modeling Return of the Epidemic: Impact of Population Structure, Asymptomatic Infection, Case Importation and Personal Contacts. *Travel Med Infect Dis*. 2020 Sep-Oct;37:101858. doi: 10.1016/j.tmaid.2020.101858. Epub 2020 Aug 27.
27. **Yu X**. Impact of mitigating interventions and temperature on the instantaneous reproduction number in the COVID-19 pandemic among 30 US metropolitan areas. *One Health*. 2020 Dec;10:100160. doi: 10.1016/j.onehlt.2020.100160. Epub 2020 Aug 22.
28. **Yu X**. Risk Interactions of Coronavirus Infection across Age Groups After the Peak of COVID-19 Epidemic. *Int. J. Environ. Res. Public Health*. 2020, 17
29. **Yu X**, Duan J\*, Jiang Y, Zhang H. Distinctive trajectories of COVID-19 epidemic by age and gender: a retrospective modeling of the epidemic in South Korea. *Int J Infect Dis*. 2020;S1201-9712(20)30536-1. doi:10.1016/j.ijid.2020.06.101
30. **Yu X**. Assessing Epidemic Trend in Real Time with a Simple Ratio Plot. *Am J Epidemiol*. 2020;kwaa123. doi:10.1093/aje/kwaa123
31. Nekhlyudov L, Duijts S, Hudson SV, Jones JM, Keogh J, Love B, Lustberg M, Smith KC, Tevaarwerk A, **Yu X**, Feuerstein M. Addressing the needs of cancer survivors during the COVID-19 pandemic. *J Cancer Surviv*. 2020;1-6. doi:10.1007/s11764-020-00884-w
32. Guo Q\*, Wang B, Cao S, Jia C, **Yu X**, Zhao L, Dellarco M, Duan X. Association between milk intake and childhood growth: results from a nationwide cross-sectional survey. *Int J Obes (Lond)*. 2020;10.1038/s41366-020-0625-4. doi:10.1038/s41366-020-0625-4
33. Wang T\*, Lu Y, Zhou P, Huang S, **Yu X**. A Randomized Controlled Comparison of Epidural Analgesia Onset Time and Adverse Reactions During Labor With Different Dose Combinations of Bupivacaine and Sufentanil. *Clin J Pain*. 2020;36(8):612-617. doi:10.1097/AJP.0000000000000837
34. Li Y, Akkus C\*, **Yu X**, Joyner A, Kmet J, Sweat D, Jia C. Heatwave Events and Mortality Outcomes in Memphis, Tennessee: Testing Effect Modification by Socioeconomic Status and Urbanicity. *Int J Environ Res Public Health*. 2019 Nov 18;16(22).
35. Hohmeier KC, Garst A, Adkins L, **Yu X**, Cost M. The Optimizing Care Model: A novel community pharmacy approach to enhance patient care delivery by leveraging the technician workforce through technician product verification. *Journal of the American Pharmacists Association*. 2019, 59(6), 880-885.
36. Chavan PP\*, Kedia SK, **Yu X**. Impact of Physical and Functional Limitations on Health Care Utilization in Older Cancer Survivors: A Medicare Current Beneficiary Survey. *Journal of Aging and Health*.

September 2019.

37. Mzayek F., Wang LE\*, Relyea G, **Yu X**, Terry JG, Carr J., Hundley GW. Hall ME, Correa A. Impact of Abdominal Obesity on Proximal and Distal Aorta Wall Thickness in African Americans: The Jackson Heart Study. *Obesity*. Vol. 27, Aug 2019
38. Wang Y, **Yu X**, Zhao N, Wang J, Lin C, Izaguirre EW, Farmer W, Tian G, Somer B, Dubal N, Schwartz, DL, Ballo MT, VanderWalde NA. Definitive Pelvic Radiotherapy and Survival of Patients With Newly Diagnosed Metastatic Anal Cancer. *J Natl Compr Canc Netw* 2019;17(1):29–37
39. Bachmann GA, Brown CS, Phillips NA, Rawlinson LA, **Yu X**, Wood R, Foster DC. (Gabapentin Study group). Effect of gabapentin on sexual function in vulvodynia: a randomized, placebo-controlled trial. *American Journal of Obstetrics and Gynecology*. 2019 Jan;220(1):89.e1-89.e8.
40. Kim H\*, **Yu X**, Carlton E, Powell MP, Chang C, and Ahn SN. Preschoolers' use of mental health services: An application of the Behavioral Model for Vulnerable Populations. *Education and Health*, Vol.36 No.4, Nov 2018
41. O'Connor EC\*, Wang J, Gibney KD, **Yu X**, Young GR, Jones T, Alexandrov AW, Cushman WC, Tsao JW. Lowering Systolic Blood Pressure Does Not Increase Stroke Risk. *Annals of Clinical and Translational Neurology*. 2018, Nov, 28 61(144-153)
42. Zaidi SS\*, Ward RD, Ramanathan K, **Yu X**, Gladysheva IP, Reed GL. Possible Enzymatic Downregulation of the Natriuretic Peptide System in Patients with Reduced Systolic Function and Heart Failure: A Pilot Study. *Biomed Res Int*. 2018 Jul 26;2018:7279036. doi: 10.1155/2018/7279036. eCollection 2018.
43. Hong J\*, Ge C, Jothikumar P, Yuan Z, Liu B, Bai K, Li K, Rittase W, Shinzawa M, Zhang Y, Palin A, Love P, **Yu X**, Salaita K, Evavold BD, Singer A, Zhu C. A TCR mechanotransduction signaling loop induces negative selection in the thymus. *Nat Immunol*. 2018 Dec;19(12):1379-1390.
44. Ferguson-Paul K, **Yu X**, Bagga B, Arnold SR. Optimal Pathogen-Directed therapy using MALDI TOF in pediatrics. *Pediatric Oncall Journal* (October- December) 2018, Volume 15, Issue 4: 97-102
45. Feng J\*, Lee HK, **Yu X**, Faris NR, Rugless F, Jiang S, Li J, Osarogiagbon RU Reducing Bottlenecks to Improve the Efficiency of the Lung Cancer Care Delivery Process: A Process Engineering Modeling Approach to Patient-Centered Care, *Journal of Medical Systems* (2018) 42:16
46. Amoah DK\*, Nolan V, Relyea G, Gurney JG, **Yu X**, Tylavsky FA, Mzayek F. Factors associated with residential mobility during pregnancy. *Women Health*. 2017 Sep 18:1-12.
47. MP Powell MP, **Yu X**, Isehunwa O\*, Chang CF. National Trends in Hospital Emergency Department Visits among Those with and without Multiple Chronic Conditions, 2007–2012. *Hospital topics*, 2017
48. Chavan PP\*, Kedia SK, **Yu X**. Physical and Functional Limitations in US Elderly Cancer Survivors. *Journal of Palliative Care & Medicine*. July 20, 2017

49. Kedia SK, Chavan PP\*, Boop SE\*, **Yu X**. Health Care Utilization Among Elderly Medicare Beneficiaries With Coexisting Dementia and Cancer. *Gerontology and Geriatric Medicine*. Jan 17, 2017
50. Lee HK, Ju F, Osarogiagbon RU, Faris N, **Yu X**, Rugless F, Jiang S, Li J. A System-Theoretic Method for Modeling, Analysis, and Improvement of Lung Cancer Diagnosis-to-Surgery Process. *IEEE Transactions on Automation Science and Engineering*, Jan 2017, Vol PP issue, 99
51. Powell MP, **Yu X**, Isehunwa O, and Chang CF. Trends in Urgency of Emergency Department Visits among Those with and without Multiple Chronic Conditions, 2007- 2012. *J Hosp Med Manage*. 2016, 2:2.
52. Smeltzer MP, Faris N, **Yu X**, Ramirez RA, Ramirez LE, Wang CG, Adair C, Berry A, Osarogiagbon RU. Missed Intrapulmonary Lymph Node Metastasis and Survival After Resection of Non-Small Cell Lung Cancer. *Ann Thorac Surg*. 2016 Aug;102(2):448-53.
53. Brooks RA, Blansit K, Young-Lin N, Usach I, Chen LM, **Yu X**, Kapp DS, Chan JK. The economic impact of surgical care for morbidly obese endometrial cancer patients: a nationwide study. *Am J Obstet Gynecol*. April 2016
54. Smeltzer MP, Nolan VG, **Yu X**, Nottage KA, Davis BA, Yang Y, Wang WC, Gurney JG, Hankins JS. Birth Prevalence of Sickle Cell Trait and Sickle Cell Disease in Shelby County, TN. *Pediatr Blood Cancer*. 2016 Feb 12. doi: 10.1002/pbc.25936.
55. **Yu X**, Klesges LM, Smeltzer MP, Osarogiagbon RU. Measuring improvement in populations: implementing and evaluating successful change in lung cancer care. *Transl Lung Cancer Res*. 2015 Aug;4(4):373-84. doi: 10.3978/j.issn.2218-6751.2015.07.13. Review.
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*COVID-19 related technical publications (not peer-reviewed):*

1. **Yu X**. Huang Y. Yu C. Bromley MI. How many COVID-19 cases and deaths have occurred in Wuhan, China? A retrospective study based on seroprevalence of SARS-CoV-2 antibodies.
2. **Yu X**. Jain MK, Smalley DL. Evans J. Allay J. Paten A. Burton MCR. Trend of Seropositivity of SARS-CoV-2 infection in a racially diverse community.

## GOVERNMENT REPORTS

1. McBean AM, **Yu X.** Post-coverage Analysis of the Outcomes Following Surgical Treatment among Elderly Medicare Men of Benign Prostate Hypertrophy. *Center for Medicare and Medicaid Services*. June, 2005. <http://www.cms.hhs.gov/DeterminationProcess/Downloads/PCABPH.pdf>
2. Holtzman JL, McBean AM, **Yu X.**, Caldwell DS, Frank BD. Post-coverage Analysis of Transmyocardial Revascularization (TMR) among Medicare Beneficiaries. *Center for Medicare and Medicaid Services*. Feb, 2005. <http://www.cms.hhs.gov/DeterminationProcess/Downloads/PCATMR.pdf>

## BOOK CHAPTER

1. **Yu X.** Epidemiology of Cancer Recurrence, Second Primary Cancer and Comorbidity among Cancer Survivors. In *Quality Health Care for Cancer Survivors*. Feuerstein M, Ganz PM. editors. Springer, 2011

## CONFERENCE PRESENTATIONS/ABSTRACTS (peer-reviewed)

(students/trainees or my own presentations are listed)

1. **Yu X.** Schiro-Geist C, Krolik P. Nandiki S. Cai J, Tippireddy JR, Unveiling the Complexity: Intersectionality of Disability in Multicultural Rehabilitation. ACRM, Oct 2024
2. Schiro-Geist C, **Yu X.** Krolik P. Nandiki S. Cai J. Differences in the Quality of Employment for VR Clients with Disabilities by Counselor's CRC Status. NRA, August 2024
3. Schiro-Geist C, **Yu X.** Krolik P. Nandiki S. Cai J. Differences in the Quality of Employment for VR Clients with Disabilities by Counselor's CRC Status. ABOVE, March 2024
4. **Yu X.**, Krolik P., Zhang X. ,Shiro-Geist C. Goodwell ME. Challenges in living wage employment for individuals with disabilities. APHA, Atlanta, Nov 12, 2023
5. **Yu X.**, Krolik P., Zhang X. ,Shiro-Geist C. Goodwell ME. Subminimum wage employment among individuals with disabilities: A public health blind spot. APHA, Atlanta, Nov 12, 2023
6. Goodwell. ME, **Yu X.**, Krolik P., Zhang X. ,Shiro-Geist C. Subminimum wage employment among individuals with disabilities: A legal perspective. APHA, Atlanta, Nov 12, 2023
7. Gain, EP\*. **Yu X.**, Kedia SS. Patterns of intermittent antidepressant use and the risk of resumption of medication among community-dwelling US older adults. APHA, Atlanta, Nov 12, 2023
8. Gain EP\*. Mou X. **Yu X.** Joshi A. Titu AN. Ambient temperature and gun-violence events in Memphis, Tennessee, USA between 2013-2018. APHA, Atlanta, Nov 12, 2023
9. Bromley MI\*, Kedia SK, Gain EP, **Yu X.** Disparities and determinants of chronic and heavy uses of different opioid compounds and classes among US elderly with chronic non-cancer pain. APHA Boston, 2022
10. Bromley MI\*, Kedia SK, Gain EP, **Yu X.** Impact of Chronic or Heavy Use of Opioids on Health Care Utilizations Among Community Dwelling Elderly in the United States. APHA, Denver, 2021.
11. **Yu X.** Urban-rural inequalities during the COVID-19 pandemic among elderly people in Florida, US. APHA 2020 (online).



12. Bromley MI\*, Gain EP, Kedia SK. **Yu X**. Burden of chronic and heavy opioid use among US elderly. *APHA* (online) 2020.
13. Chavan P\*, Kedia SK, **Yu X**. Impact of Physical and Functional Limitations on Self-Assessed Health Status and Mortality among Older Cancer Survivors. *American Public Health Association (APHA)* annual meeting, Nov. 2018, San Diego
14. Chavan P\*, Kedia SK, **Yu X**. Impact of Functional Limitations on Healthcare Utilization among Elderly Cancer Survivors. *American Public Health Association* annual meeting, Nov. 2016, Atlanta
15. Chang CF. Powell MP. **Yu X**. The Extra Costs of ED Visits Associated with Multiple Chronic Conditions. *American Society of Health Economists*. 5th annual meeting. Tuesday, June 14, 2016
16. Chavan P\*, Kedia S, **Yu X**. Functional Limitations in Cancer Survivors among Elderly Medicare Beneficiaries. *American Public Health Association* annual meeting, 2015, Chicago.
17. **Yu X**. Smeltzer MP, Faris NF, Osarogiagbon RU Impact of attainment of Commission on Cancer quality measure on patient survival after resection of lung cancer. *World Lung Meeting*, 2015, Denver
18. **Yu X**. Faris NF, Smeltzer MP, Osarogiagbon RU Impact of Attainment of National Comprehensive Cancer Network (NCCN) Quality Parameters on Patient Survival after Resection of Lung Cancer. *World Lung Meeting*, 2015, Denver
19. **Yu X**, Robbins ET, Faris NF, Lu F, Osarogiagbon RU. Evolution in the surgical care of non-small cell lung cancer (NSCLC) patients in the Mid-South Quality of Surgical Resection (MS-QSR) Cohort. *World Lung Meeting*, 2015, Denver
20. Ramirez RA, Wang CG, Miller LE, Adair CA, Berry A, **Yu X**, O'Brien TF, Osarogiagbon RU. Incomplete Intrapulmonary Lymph Node Retrieval after Routine Pathologic Examination of Resected Lung Cancer. *Society of Thoracic Surgery*. Nov, 2011
21. Ward R., **Yu X**. Bailey JE, Reed GL. Patient and System Factors that Associated with Cardiac Catheterizations. *Society of Southern General Internal Medicine*. Feb 11, 2011.
22. Bailey JE, **Yu X**. Ward R. Reed GL. Effect of Health Information Exchange on Hospital Admissions in Emergency Evaluation of Chest Pain. *Society of Southern General Internal Medicine*. Feb 11, 2011.
23. **Yu X**, Lum D, Fuh K, Brooks R, Chan, JK Trends in Utilization and Cost of Minimally-Invasive Robotic Surgery for Endometrial Cancer - A Statewide Analysis of 2,296 Patients. *Society of Gynecologic Oncology*. Orlando FL, March 10, 2011. (Plenary oral)
24. **Yu X**, Gutierrez ML, McBean AM. Patient Characteristics, Hospital Surgery Volume and Oncologist Visit Among Elderly Stage II colon Cancer Patients. *APHA*, Nov 8, 2010 (poster)
25. **Yu X**, Jee-ae Kim, McBean AM. Racial and Ethnic Differences in Microalbuminuria Testing among Elderly Medicare Beneficiaries with Diabetes. *American Public Health Association Annual Meeting*, 2009. Diabetes Epidemiology section, November 11, 2009. (Oral presentation)
26. **Yu X**. Virnig BA, McBean AM. Understanding visiting oncologists and chemotherapy use among elderly stage II colon cancer patients. *American Public Health Association Annual Meeting*, 2009. Health Promotion and Prevention among Older Adults section, November 8, 2009. (Poster)
27. **Yu X**, McBean AM. The impact of colorectal cancer diagnosis on mammography screening among elderly women. 25<sup>th</sup> Annual research meeting, *AcademyHealth*. June 9, 2008. (Oral presentation)

28. **Yu X**, Elliott SP, Wilt T, McBean M. BPH surgical treatment trends in the U.S. – the dramatic increase in the application of minimally invasive technologies. *29<sup>th</sup> Congress of the society of International Urology*. Paris, 2007 (Moderated Poster). *Urology*. 2007 Sep, 70(3) S1: 156-157.
29. **Yu X**, McBean AM. Mammography use among elderly colorectal cancer survivors. *24<sup>th</sup> Annual research meeting, AcademyHealth*. June 4, 2007. (Poster exhibition)
30. **Yu X**, McBean AM, Virnig B. The use of recommended health care services among elderly cancer survivors. *23<sup>rd</sup> Annual research meeting, AcademyHealth*. June 27, 2006. (Oral presentation)
31. **Yu X**, McBean AM, Caldwell DS, Anderson JA. Unequal utilization of new technologies by race. The use of new prostate surgeries among Medicare elderly beneficiaries. *21<sup>st</sup> Annual research meeting, AcademyHealth*. June 7, 2004. (Oral presentation)

### INVITED PRESENTATIONS/WORKSHOPS

1. **Yu X**. Critical thinking in epidemiology (online short course), TN Department of Health. 2023
2. **Yu X**. Emerging infectious disease: innovations and evaluation (online short course), TN Department of Health, 2023
3. **Yu X**. Epidemiological analysis of COVID-19 (one day workshop). *University of Memphis*, Public Health Summer Institute, August, 2021
4. **Yu X**. COVID-19: pathophysiology, origin, variants and herd immunity. *University of Memphis*, School of Public Health, April, 2021
5. **Yu X**. Urban/Rural Inequalities in the COVID-19 Pandemic. *University of Memphis*, 2020
6. **Yu X**. Modeling COVID-19 Pandemic: Tricks and Pitfalls. *University of Memphis*, Data Science Cluster, 2020
7. **Yu X**. Causal inference (one day workshop). *University of Memphis*, Public Health Summer Institute, August, 2019
8. **Yu X**. Causal Inference with Marginal Structural Models. *School of Public Health*, EBE research Colloquium, *University of Memphis*, March 21, 2018
9. **Yu X**. Micro-module Teaching in a Fragmented Learning Environment. *School of Public Health*, *University of Memphis*, Feb 9, 2018
10. **Yu X**. Depression: Diagnosis, Treatment and Its Impact. *School of Public Health*, EBE research Colloquium, *University of Memphis*, Nov 25, 2017
11. **Yu X**. Data analysis using Stata (one day workshop). *University of Memphis*. Public Health Summer Institute. August, 2017
12. **Yu X**. Causal Inference in Epidemiology (three day talks). *School of Public Health*, *University of Memphis*, Nov 9, 16, 23, 2016
13. **Yu X**. Health Services Research Using Medicare Claims data. *University of Tennessee Health Science Center*. 2015

14. **Yu X.** Exploring Health Disparities in Health Services Utilizations Using Social Network Analysis. Bioinformatics in *University of Memphis*, March 23, 2012
15. **Yu X.** The diffusion of new health technology: a case study on robot assisted surgery. SPH Brownbag research series, *University of Memphis*, Jan 7, 2011
16. **Yu X.**, Distribution of Osteopathic Medicine Physicians in the United States. Public Health Seminar. *Nova Southeastern University*, Oct. 21, 2009
17. **Yu X.** Chemotherapy and mammography use among women newly diagnosed with colorectal cancer. Cancer Outcomes and Survivorship Research Group, *School of Medicine, University of Minnesota*. May 5, 2008.
18. **Yu X.** Impact of colorectal cancer diagnosis and treatment on the mammography use among elderly women. Research investigator meeting, *National Cancer Institute (NCI), National Institutes of Health (NIH)*. March 20, 2008.
19. **Yu X.** Clinical research using linked SEER-Medicare data. Department of Obstetrics and Gynecology, Division of Gynecologic Oncology. *University of California, San Francisco*. Dec. 9, 2007.
20. **Yu X**, McBean AM, Caldwell DS. Post-coverage analysis of surgical treatment of benign prostate hypertrophy. Coverage Decision Group, *Center for Medicare and Medicaid Services (CMS)*. Dec.16, 2003.