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SENIOR STATISTICIAN II

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PROFESSIONAL PROFILE

Ms. Xiaohui Jiang has more than 15 years of experience as a statistician, biostatistician, and research analyst in both the academic and private sectors. As a Senior Biostatistician in a consulting environment, she most recently has performed data management; cleaning and harmonization of large, disparate databases; analysis of clinical data; and real-world data analyses using data on insurance claims, hospital discharges, disease registries, and clinical chart data. Her statistical expertise extends to a broad range of research projects, including risk assessments, occupational studies, and environmental evaluations.

Ms. Jiang has performed meta-analyses of occupational risks and applied statistical approaches that include linear regression, logistical regression, and quantile regression, and has collected experimental data, created data sets, and analyzed and interpreted data for academic and industrial organizations. She is proficient in the statistical programs SAS, SQL, R, and STATA, and she is a co-author on 24 studies published in the peer-reviewed literature.

EDUCATION AND DEGREES EARNED

- 2004 Master of Science, Applied Statistics
Bowling Green State University, Bowling Green, OH
- 1995 Bachelor of Science, Chemistry
Nanjing University, Nanjing, China

SELECTED PROFESSIONAL EXPERIENCE

Performed complex statistical analysis of disease risk using the National Health and Nutrition Examination Survey 2007-2010, using SAS to build a risk model for diabetes and arthritis. Applied results to build a disease-specific calculator.

Provided statistical and analytical expertise for the large data sets collected by complex survey designs in the University of Michigan Dioxin Exposure Study. Identified the factors that explained the variation in serum dioxin concentrations among the residents in Midland and Saginaw Counties using SAS.

Evaluated whether childhood cancer and childhood leukemia incidence rates are associated with hydraulic fracturing using state cancer data and census data.

Analyzed Optum data to investigate disease burden, Thrombotic event risk, anxiety and depression risk, seasonality pattern, and healthcare resource utilization of cold agglutinin disease patients.

Analyzed national HCUP data to evaluate the trends in respiratory syncytial virus and unspecified bronchiolitis hospitalization rates among US high-risk infants.

MANUSCRIPTS

Allen BC, Vincent MJ, Lipworth L, Panko JM, Suh M, **Jiang X**, Mumma MT, Proctor DM. 2025. Lung cancer risk assessment associated with exposure to hexavalent chromium: Results of pooled analysis of three cohorts. J Occup Environ Hyg 22(10):821-835; doi: 10.1080/15459624.2025.2502491. PMID: 40435461.

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Broome CM, Hooda N, Su J, **Jiang X**, Nicholson G, Frankenfeld CL, Iglesias-Rodriguez M, Fryzek J, Patel Parija. 2022. Medically-attended anxiety and depression is increased among newly diagnosed patients with cold agglutinin disease: Analysis of an integrated claim-clinical cohort in the United States. PLoS One 17(12)e0276617, [open access](#).

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Reichert H, Suh M, **Jiang X**, Movva N, Bylsma LC, Fryzek JP, Nelson CB. 2022. Mortality associated with respiratory syncytial virus, bronchiolitis, and influenza among infants in the United States: A birth cohort study from 1998 to 2018. J Infect Dis 226(Suppl 2):S246-S254, [open access](#).

Röth A, Fryzek J, **Jiang X**, Reichert H, Patel P, Su J, Morales Arias J, Broome CM. 2022. Complement-mediated hemolysis persists year round in patients with cold agglutinin disease. *Transfusion* 62(1):51–59; doi: 10.1111/trf.16745.

Suh M, Mowva N, **Jiang X**, Bylsma LC, Reichert H, Fryzek JP, Nelson CB. 2022. Respiratory syncytial virus (RSV) is the leading cause of United States infant hospitalizations 2009–2019: A study of the National (Nationwide) Inpatient Sample. *J Infect Dis* 226(Suppl 2):S154–S163, [open access](#).

Suh M, Mowva N, **Jiang X**, Reichert H, Bylsma LC, Fryzek JP, Nelson CB. 2022. Respiratory syncytial virus burden and healthcare utilization in United States infants, <1 year of age: Study of nationally representative databases, 2011–2019. *J Infect Dis* 226(Suppl 2):S184–S194, [open access](#).

Mavunda K, **Jiang X**, Ambrose CS. 2021. Prevalence and clinical characteristics of perinatal chronic lung disease by infant gestational age. *J Neonatal Perinatal Med* 14(1):43–51; doi: [10.3233/NPM-200412](#).

Proctor DM, Bhat V, Suh M, Reichert H, **Jiang X**, Thompson CM. 2021. Inhalation cancer risk assessment for environmental exposure to hexavalent chromium: Comparison of margin-of-exposure and linear extrapolation approaches. *Regul Toxicol Pharmacol* 124:104969; doi: [10.1016/j.yrtph.2021.104969](#).

Broome CM, Cunningham JM, Mullins M, **Jiang X**, Bylsma LC, Fryzek JP, Rosenthal A. 2020. Increased risk of thrombotic events in cold agglutinin disease: A 10-year retrospective analysis. *Res Prac Thromb Haemost* 4(4):628–635; doi: [10.1002/rth2.12333](#).

Dake MD, Fanelli F, Lottes AE, O'Leary EE, Reichert H, **Jiang X**, Fu W, Iida O, et al. 2020. Prediction model for freedom from TLR from a multi-study analysis of long-term results with the Zilver PTX drug-eluting peripheral stent. *Cardiovasc Intervent Radiol* 44(2):196–206; doi: [10.1007/s00270-020-02648-6](#).

Su J, Bylsma LC, **Jiang X**, Morales Arias J, Jain N, Nordyke RJ. 2020. Healthcare resource utilization among commercially insured patients with cold agglutinin disease in the United States. *J Med Econ* 23(8):902–907; doi: [10.1080/13696998.2020.1764006](#).

Ruzin A, Pastula ST, Levin-Sparenberg E, **Jiang X**, Fryzek J, Tovchigrechko A, Lu B, Qi Y, Liu H, Jin H, Yu L, Hackett J, Villafana T, Esser MT. 2018. Characterization of circulating RSV strains among subjects in the OUTSMART-RSV surveillance program during the 2016-17 winter viral season in the United States. *PLoS One* 13(7):e0200319.

Friedman D, Fryzek J, **Jiang X**, Bloomfield A, Ambrose CS, Wong PC. 2017. Respiratory syncytial virus hospitalization risk in the second year of life by specific congenital heart disease diagnoses. *PLoS One* 12(3):e0172512.

Mullins M, **Jiang X**, Bylsma LC, Fryzek JP, Reichert H, Chen E, Kummar S, Rosenthal A. 2017. Cold agglutinin disease burden: A longitudinal analysis of anemia, medications, transfusions, and healthcare utilization. *Blood Adv* 1(13):839–848.

Pastula S, Hackett J, Coalson J, **Jiang X**, Villafana T, Fryzek J. 2017. Hospitalizations for respiratory syncytial virus among adults in the United States, 1997 to 2012. *Open Forum Infectious Diseases* 4(1):ofw270.

Doucette A, **Jiang X**, Fryzek J, Coalson J, McLaurin K, Ambrose CS. 2016. Trends in respiratory syncytial virus and bronchiolitis hospitalization rates in high-risk infants in a United States nationally representative database, 1997-2012. *PLoS One* 11(4):e0152208.

Demond A, **Jiang X**, Broadwater K, Meeker J, Luksemburg W, Maier M, Garabrant D, Franzblau A. 2015. Serum concentrations of polychlorinated dibenzo-p-dioxins among ceramicists. *Chemosphere* 118(Jan):350–356.

Alexander DD, **Jiang X**, Bylsma LC, Garabrant DH, Irvin SR, Fryzek JP. 2014. Historical cancer incidence and mortality assessment in an Illinois community proximal to a former manufactured gas plant. *BMJ Open* 4(12):e006713.

- Cohen SS, Sadoff MM, **Jiang X**, Fryzek JP, Garabrant DH. 2014. A review and meta-analysis of cancer risks in relation to Portland cement exposure. *Occup Environ Med* 71(11):796–802.
- Chen Q, **Jiang X**, Hedgeman E, Knutson K, Gillespie B, Hong B, Lepkowski JM, Franzblau A, Jolliet O, Adriaens P, Demond AH, Garabrant DH. 2013. Estimation of age-and sex-specific background human serum concentrations of PCDDs, PCDFs, and PCBs in the UMDES and NHANES populations. *Chemosphere* 91(6):817–23.
- Fryzek J, Garabrant DH, Pastula S, **Jiang X**. 2013. Response to Goldstein et al. *J Occup Environ Med* 55(11):1378.
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- Demond A, Franzblau A, Garabrant D, **Jiang X**, Adriaens P, Chen Q, Gillespie B, Hao W, et al.. 2012. Human exposure from dioxins in soil. *Environ Sci Technol* 46(3):1296–1302.
- Garabrant DH, Hong B, Chen Q, Chang C-W, **Jiang X**, Franzblau A, Lepkowski J, Adriaens P, et al. 2008. Factors that predict serum PCB, PCDD, and PCDF concentrations in Michigan, USA. *Epidemiology* 19(6):S265.
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- Garabrant D, Hong B, Chen Q, Chang C-W, **Jiang X**, Franzblau A, Lepkowski J, Adriaens P, et al. 2008. Predictors of serum PCDF concentrations in people from Michigan, USA. *Organohalogen Compounds* 70:2047–2050.
- Garabrant D, Hong B, Chen Q, Chang C-W, **Jiang X**, Franzblau A, Lepkowski J, Adriaens P, et al. 2008. Predictors of serum TEQ and PCDD concentrations in people from Michigan, USA. *Organohalogen Compounds* 70:94–97.
- Jolliet O, **Jiang X**, Wenger Y, Milbrath MO, Chang C-W, Chen Q, Hong B, Hedgeman E, Garabrant D, Franzblau A, Lepkowski J, Towey T, Adriaens P, Gillespie BW. 2008. Model formats and use of pharmacokinetic modeling for the statistical analysis of blood dioxin concentrations. *Organohalogen Compounds* 70:102–105.
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- Knutson K, Hong B, Chen Q, Chang C-W, **Jiang X**, Hedgeman E, Towey T, Gillespie BW, Franzblau A, Lepkowski J, Adriaens P, Demond A, Garabrant DH. 2008. The relationship between dioxin concentrations (TEQ) in blood and breast feeding. *Organohalogen Compounds* 70:1387–1390.

ABSTRACTS AND PRESENTATIONS

- Kelsh M, Bylsma LC, **Jiang X**, Movva N, Sacks NC. To be an orphan disease or not to be: An evaluation of prevalence estimates for cancers near the orphan status threshold and implications for orphan drug planning. International Society for Pharmacoepidemiology, 40th Annual Meeting, Berlin, Germany, August 2024.
- Allen B, Vincent M, Lipworth L, Panko J, Suh M, **Jiang X**, Mumma, Proctor D. Lung cancer risk and exposure to hexavalent chromium: Results of extended mortality study of workers with low level exposures and quantitative risk assessment using pooled analysis of three cohorts. Society of Toxicology Annual Meeting, Salt Lake City, UT, March 2024.

Nelson CB, **Jiang X**, Suh M, Fryzek J. Prevention of respiratory syncytial virus hospitalizations (RSVH) in US infants who paid through Medicaid would have a greater benefit for Black, Hispanic, Asian/Pacific Islander, Native American and Other race/ethnicity infants, and have a substantial impact on overall RSVH burden and related costs: Rates of respiratory syncytial virus hospitalization (RSVH) among US infants by race/ethnicity and insurance payer, NIS 2018-2020. Poster 1536169, IDWeek 2023, Boston, MA, October 2023.

Reichert H, **Jiang X**, Suh M, Pastula S, Mowva N, Fryzek J, Simões EAF. The burden of RSV and bronchiolitis in the US infant Medicaid population extends beyond the inpatient setting. Poster 192, International Society for Pharmacoepidemiology (ICPE) annual meeting, Halifax, Nova Scotia, August 2023.

Pastula S, Suh M, **Jiang X**, Reichert H, Mowva N, Fryzek J, Simões EAF. Respiratory syncytial virus (RSV) and bronchiolitis epidemiology among the United States infant Medicaid populations in seven states. Poster 191, International Society for Pharmacoepidemiology (ICPE) annual meeting, Halifax, Nova Scotia, August 2023.

Suh M, Reichert H, **Jiang X**, Pastula ST, Mowva N, Fryzek J, Simoes E. The burden of RSV and bronchiolitis in the US infant Medicaid population extends beyond the inpatient setting. Oral presentation to the Pediatric Academic Societies meeting, Washington, DC, April 2023.

Mowva N, Suh M, **Jiang X**, Reichert H, Bylsma L, Rizzo CP, White M, Fryzek J, Nelson CB. Medicaid infants have the highest respiratory syncytial virus (RSV) hospitalization burden and rates among United States (US) infants aged <1 year: An analysis of the 2011–2018 National (Nationwide) Inpatient Sample (NIS). Abstract accepted for AAP Experience, National Conference & Exhibition (American Academy of Pediatrics), Philadelphia, PA, October 2021.

Broome, C, Patel P, **Jiang X**, Iglesias-Rodriguez M, Fryzek J. Increased antidepressant use among newly diagnosed patients with cold agglutinin disease compared with other patients in a large US healthcare system. E-poster presentation to European Hematology Association Virtual Congress, June 2021.

Fergie J, Gonzales T, Suh M, **Jiang X**, Fryzek JP, Hooda N, Howard A, Bloomfield A. Higher-risk congenital heart disease (CHD) among children aged ≤ 24 months with respiratory syncytial virus hospitalizations (RSVH) and all-cause bronchiolitis hospitalizations (BH). 37th Annual Children's National Symposium: ECMO and the Advanced Therapies for Cardiovascular and Respiratory Failure, Feb 2021.

Fergie J, Gonzales T, Suh M, **Jiang X**, Fryzek J, Hooda N, Howard A, Bloomfield A. Higher-risk congenital heart disease (CHD) among children aged ≤ 24 months with respiratory syncytial virus hospitalizations (RSVH) and all-cause bronchiolitis hospitalizations (BH) at RSV season before and after the 2014 American Academy of Pediatrics (AAP) guidance. California Association of Neonatologists' 27th Annual Cool Topics in Neonatology Conference, March 2021.

Suh M, **Jiang X**, Mowva N, Fryzek J, Bylsma L, Rizzo C, Nelson CB. Hospitalizations and emergency department visits for respiratory syncytial virus among infants aged <1 year in the United States: An analysis of nationwide inpatient and emergency room data. Presentation to IDWeek virtual conference on infectious disease, October 2020.

Fergie J, Gonzales T, Suh M, **Jiang X**, Fryzek J, Howard A, Bloomfield A. 2020. Respiratory syncytial virus hospitalizations (RSVH) and all-cause bronchiolitis hospitalizations (BH) among children aged ≤ 24 months at the start of RSV season with bronchopulmonary dysplasia/chronic lung disease of prematurity (BPD/CLDP) before and after the 2014 American Academy of Pediatrics (AAP) policy. Presentation to IDWeek virtual conference on infectious disease, October 2020.

Fergie J, Gonzales T, Suh M, **Jiang X**, Fryzek J, Howard A, Bloomfield A. 2020. Medically attended respiratory syncytial virus hospitalizations (RSVH) and all-cause bronchiolitis hospitalizations (BH) among children aged ≤ 24 months at RSV season start with higher-risk congenital heart disease (CHD) before and after the 2014 American Academy of Pediatrics (AAP) policy. Presentation to IDWeek virtual conference on infectious disease, October 2020.

Shepard DS, Perloff J, **Jiang X**, Suh M, Fryzek J, Bowser D, Rizzo C, Nelson CB. Impacts of age and season on rates of hospitalization for respiratory syncytial virus (RSV) in infants in the United States and their use of mechanical ventilation and charges. IDWeek virtual conference on infectious disease, October 2020.

Loper J, Lewis KH, Rothberg A, Auriemma A, Coburn SL, Cohen SS, Matarese L, Pories WJ, **Jiang X**, Periman S, Ard JD. Weight change in participants completing meal replacement program is related to level of engagement. Obesity Week virtual conference, 2020.

Röth A, Fryzek J, **Jiang X**, Reichert H, Morales J, Broome CM. Seasonal patterns of anemia, hemolytic markers, healthcare resource utilization, and thromboembolic events in cold agglutinin disease. 64th Annual Meeting of the Society of Thrombosis and Haemostasis Research, Bremen, Germany, February 2020.

Röth A, Fryzek J, **Jiang X**, Reichert H, Morales J, Broome CM. Seasonal patterns of anemia, hemolytic markers, healthcare resource utilization, and thromboembolic events in cold agglutinin disease. Presentation at German Society for Hematology and Medical Oncology, Berlin, Germany, October 11–14, 2019.

Röth A, Fryzek J, **Jiang X**, Reichert H, Morales J, Broome CM. Seasonal patterns of thromboembolic events in cold agglutinin disease (CAD) in the United States. Presentation at 81st Annual Meeting of the Japanese Society of Hematology, Tokyo, Japan, October 11–13, 2019.

Fergie J, Gonzales T, **Jiang X**, Fryzek J, Rizzo CP. Respiratory syncytial virus hospitalizations (RSVH) and all-cause bronchiolitis hospitalizations (BH) among 29–34 weeks gestational age (wGA) preterm infants before and after the 2014 American Academy of Pediatrics (AAP) immunoprophylaxis policy change using the Children's Hospital Association's Pediatric Health Information System (PHIS). Poster presentation at IDWeek, Washington, DC, October 2–6, 2019.

Mavunda K, **Jiang X**, Ambrose C. The prevalence of diagnosed chronic lung disease in US infants by gestational age: Implications for RSV policy. Pediatric Academic Societies, Baltimore, Maryland, April 27–30, 2019.

Su J, Bylsma LC, **Jiang X**, Morales Arias J, Jain N, Nordyke RJ. Healthcare resource utilization among commercially insured cold agglutinin disease patients in the United States. Poster presentation at International Society for Pharmacoeconomics and Outcomes Research, New Orleans, Louisiana, May 18–22, 2019.

Mavunda K, **Jiang X**, Ambrose C. The prevalence of diagnosed chronic lung disease in US infants by gestational age: Implications for RSV policy. Celebration of Pediatric Pulmonology and Sleep, Orlando, FL, February 15–17, 2019.

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Pastula S, Hackett J, Coalson J, **Jiang X**, Villafana T, Fryzek J. Burden of respiratory syncytial virus disease among adults in the United States from 1997 to 2012. Abstract, Poster Presentation, International Society for Influenza and Other Respiratory Virus Diseases (ISIRV) 2016 - Options IX for the Control of Influenza. Chicago, IL, August 24–28, 2016.

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Broadwater K, Franzblau A, Luksemburg W, Maier M, **Jiang X**, Garabrant DH, Demond A. Serum concentrations of polychlorinated dibenzo-p-dioxins among users of ball clay. Joint ISEE, ISES and ISIAQ Environmental Health Conference, Basel, Switzerland August 19–23, 2013.

Reichert H, Gillespie BW, Franzblau A, **Jiang X**, Hao W, Lepkowski J, Adriaens P, Demond A, Garabrant DH. Dealing with data below the limit of detection in dioxin research. Dioxin 2011 Conference, Brussels, Belgium, August 21–25, 2011.

Jiang X, Knutson K, Zwica L, Lee S-Y, Chen Q, Hong B, Zhong X, Hao W, Towey T, Gillespie BW, Demond A, Adriaens P, Lepkowski J, Franzblau A, Garabrant D. The University of Michigan Dioxin Exposure Study: Predictors of household dust PCDD, PCDF, and PCB concentrations. Dioxin 2011 Conference, Brussels, Belgium, August 21–25, 2011.

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Garabrant D, Hong B, Jolliet O, Chen Q, **Jiang X**, Franzblau A, Lepkowski J, Adriaens P, Demond A, Hedgeman E, Knutson K, Towey T, Gillespie B. Public health impact of PCDDs, PCDFs, and PCBs in Midland, Michigan, USA. Dioxin 2009 Conference, Beijing, China, August 27, 2009.

Franzblau A, Hedgeman E, **Jiang X**, Chen Q, Hong B, Knutson K, Towey T, Adriaens P, Demond A, Garabrant D, Gillespie B, Jolliet O, Lepkowski J. The University of Michigan dioxin exposure study: Follow-up investigation of subjects with high serum concentrations of TEQ, 2,3,7,8-TCDD, 2,3,4,7,8-PeCDF, and PCB-126. Dioxin 2009 Conference, Beijing, China, August 27, 2009.

Jolliet O, Wenger Y, Adriaens P, Chang Q, Franzblau A, Gillespie BW, Hedgeman E, Hong B, **Jiang X**, Knutson K, Lepkowski J, Milbrath MO, Reichert H, Towey T, Garabrant D. Influence of age on dioxin serum concentrations as a function of congener half-life and historical peak food consumption. Dioxin 2008 Conference, Birmingham, England, August 2008.

Garabrant D, Hong B, Chen Q, Chang C-W, **Jiang X**, Franzblau A, Lepkowski J, Adriaens P, Demond A, Hedgeman E, Knutson K, Towey T, Gillespie BW. Predictors of serum PCDF concentrations in people from, Michigan, USA. Dioxin 2008 Conference, Birmingham, England, August 2008.

Knutson K, Hong B, **Jiang X**, Hedgeman E, Chen Q, Chang C-W, Towey T, Gillespie BW, Franzblau A, Lepkowski J, Adriaens P, Demond A, Garabrant DH. The relationship between dioxin concentrations in blood and breast feeding. Dioxin 2008 Conference, Birmingham, England, August 2008.

Garabrant DH, Hong B, Chen Q, Chang C-W, **Jiang X**, Franzblau A, Lepkowski J, Adriaens P, Demond A, Hedgeman E, Knutson K, Towey T, Gillespie BW. Factors that predict serum PCB concentrations in Michigan, USA. Dioxin 2008 Conference, Birmingham, England, August 2008.