

# Wenna Xi

DV-320 ◇ 425 E 61st St ◇ New York, NY 10065

(646)962-5641 ◇ wex4002@med.cornell.edu ◇ <https://wennaxi.github.io/>

## RESEARCH INTERESTS

---

*Applications:* Suicide, Substance Use, Mental Health, Healthcare Utilization, Social Determinants of Health, Health Equity, Activity Spaces/Patterns, Neighborhood Effects

*Methodology:* Co-Location Networks, Social Networks, Spatial Statistics, Longitudinal Data, Correlated Data, Mixture Models, Machine Learning, Data Visualization, Bayesian Modeling and Computation

## EDUCATION

---

### The Ohio State University, Columbus, OH

- Ph.D., Biostatistics Defended: Jul 2019; conferred: Dec 2019
  - *Advisor:* Catherine A. (Kate) Calder
  - *Dissertation:* Community Structure in Co-Location Networks  
[http://rave.ohiolink.edu/etdc/view?acc\\_num=osu1566156023255678](http://rave.ohiolink.edu/etdc/view?acc_num=osu1566156023255678)
- M.S., Statistics Dec 2018
- M.S., Public Health Aug 2014
  - *Advisor:* Michael L. Pennell
  - *Thesis:* Comparing the Statistical Power of Analysis of Covariance after Multiple Imputation and the Mixed Model in Testing the Treatment Effect for Pre-Post Studies with Loss to Follow-Up [http://rave.ohiolink.edu/etdc/view?acc\\_num=osu1403557167](http://rave.ohiolink.edu/etdc/view?acc_num=osu1403557167)

### University of Science and Technology of China, Hefei, China

- M.S., Biomathematics Jun 2012

### Northwest Normal University, Lanzhou, China

- B.S., Mathematics Jun 2010

## WORK EXPERIENCE

---

### Weill Cornell Medicine

*Instructor*, Department of Population Health Sciences Aug 2022 – Present  
*Postdoctoral Associate*, Department of Population Health Sciences (FKA Department of Healthcare Policy and Research) Aug 2019 – Jul 2022

### The Ohio State University

*Research Associate*, Center of Excellence in Regulatory Tobacco Science (OSU-CERTS) Sep 2015 – Aug 2018  
*Research Associate*, College of Public Health May 2015 – Aug 2015  
*Teaching Associate*, College of Public Health Aug 2014 – May 2015  
*Research Intern*, Department of Otolaryngology May 2013 – Aug 2013

### University of Science and Technology of China

*Research Assistant*, Department of Mathematics Feb 2012 – Jun 2012  
*Teaching Assistant*, Department of Mathematics Feb 2011 – Jan 2012

## FUNDING

---

1. K99 MH130713  
Xi (PI)  
04/01/2023 – 03/31/2025  
Risk and protective factors for Black youth suicide and suicidal ideation and behaviors

## PUBLICATIONS

22. **Xi W**, Banerjee S, Alexopoulos GS, Olfson M, Pathak J. Geography and risk of suicidal ideation and attempts post outpatient psychiatric visit in commercially insured US adults. *Journal of Psychiatric Research* (*Accepted*).
21. Wang X, Liu Q, Xu Y, **Xi W**, Gump BB, Vasilenko SA. Racial differences in adverse childhood experiences: Timing and patterns. *American Journal of Preventive Medicine* (*Accepted*).
20. Keenan OJ, Green AR, Young AR, Katz DSW, Li Q, **Xi W**, Miller DL, Williams C, Ashe N, Wozniak S, Demetres M, Ghosh AK. Linking urban greening and community values with heat-related health outcomes: an evaluation of suitable conceptual frameworks. *Arboriculture & Urban Forestry* (*Accepted*).
19. Jiang LG, McGinnis C, Benton E, Nawa E, Stern M, **Xi W**, et al. Using tele-paramedicine to conduct in-home fall risk reduction after emergency department discharge: Preliminary data. *Journal of the American Geriatrics Society*. 2024;. <https://doi.org/10.1111/jgs.19080>
18. Vekaria V, Patra BG, **Xi W**, Murphy SM, Avery J, Olfson M, et al. Association of opioid or other substance use disorders with health care use among patients with suicidal symptoms. *Journal of Substance Use and Addiction Treatment*. 2024;156:209177. <https://doi.org/10.1016/j.josat.2023.209177>
17. Scales D, Hurth L, **Xi W**, Gorman S, Radhakrishnan M, Windham S, et al. Addressing antivaccine sentiment on public social media forums through web-based conversations based on motivational interviewing techniques: Observational study. *JMIR infodemiology*. 2023;3:e50138. <https://doi.org/10.2196/50138>
16. **Xi W**, Banerjee S, Zima BT, Alexopoulos GS, Olfson M, Xiao Y, et al. Effects of geography on risk for future suicidal ideation and attempts among children and youth. *JAACAP Open*. 2023;. <https://doi.org/10.1016/j.jaacop.2023.07.002>
15. Evans L, Wu Y, **Xi W**, Ghosh AK, Kim Mh, Alexopoulos GS, et al. Risk stratification models for predicting preventable hospitalization in commercially insured late middle-aged adults with depression. *BMC Health Services Research*. 2023;23(1):621. <https://doi.org/10.1186/s12913-023-09478-5>
14. Elias J, Gossey JT, **Xi W**, Sharko M, Robbins L, Bostwick S, et al. Sharing Clinical Notes while Protecting Adolescent Confidentiality and Maintaining Parental Insight. *Applied Clinical Informatics*. 2023;14(03):555–565. <https://doi.org/10.1055/a-2084-4650>
13. Nieuwenhuijse MJ, Randsborg PH, Hyde JH, **Xi W**, Franklin P, Sun L, et al. Evidence based objective performance criteria for evaluation of hip and knee replacement devices and technologies. *International Journal of Surgery*. 2023;109(5):1125–1135. <https://doi.org/10.1097/js9.0000000000000169>
12. **Xi W**, Banerjee S, Olfson M, Alexopoulos GS, Xiao Y, Pathak J. Effects of social deprivation on risk factors for suicidal ideation and suicide attempts in commercially insured US youth and adults. *Scientific Reports*. 2023;13(1):4151. <https://doi.org/10.1038/s41598-023-31387-0>
11. Goyal P, Schenck E, Wu Y, Zhang Y, Visaria A, Orlander D, et al. Influence of social deprivation index on in-hospital outcomes of COVID-19. *Scientific Reports*. 2023;13(1):1746. <https://doi.org/10.1038/s41598-023-28362-0>
10. **Xi W**, Hinton A, Lu B, Krotki K, Keller-Hamilton B, Ferketich A, et al. Analysis of combined probability and nonprobability samples: a simulation evaluation and application to a teen smoking behavior survey. *Communications in Statistics-Simulation and Computation*. 2022;p. 1–17. <https://doi.org/10.1080/03610918.2022.2102181>
9. **Xi W**, Banerjee S, Penfold RB, Simon GE, Alexopoulos GS, Pathak J. Healthcare utilization among patients with psychiatric hospitalization admitted through the emergency department

- (ED): A claims-based study. *General Hospital Psychiatry*. 2020;67:92–99. <https://doi.org/10.1016/j.genhosppsych.2020.10.001>
8. **Xi W**, Calder CA, Browning CR. Beyond Activity Space: Detecting Communities in Ecological Networks. *Annals of the American Association of Geographers*. 2020;110(6):1787–1806. <https://doi.org/10.1080/24694452.2020.1715779>
  7. Burgoon ML, Albani T, Keller-Hamilton B, Lu B, Roberts ME, Craigmile PF, et al. Exposures to the tobacco retail environment among adolescent boys in urban and rural environments. *The American Journal of Drug and Alcohol Abuse*. 2019;45(2):217–226. <https://doi.org/10.1080/00952990.2018.1549562>
  6. Sweet L, Brasky TM, Cooper S, Doogan N, Hinton A, Klein EG, et al. Quitting Behaviors Among Dual Cigarette and E-Cigarette Users and Cigarette Smokers Enrolled in the Tobacco User Adult Cohort. *Nicotine & Tobacco Research*. 2019;21(3):278–284. <https://doi.org/10.1093/ntr/nty222>
  5. Roberts ME, Keller-Hamilton B, Hinton A, Browning CR, Slater MD, **Xi W**, et al. The magnitude and impact of tobacco marketing exposure in adolescents' day-to-day lives: An ecological momentary assessment (EMA) study. *Addictive Behaviors*. 2019;88:144–149. <https://doi.org/10.1016/j.addbeh.2018.08.035>
  4. **Xi W**, Pennell ML, Andridge RR, Paskett ED. Comparison of intent-to-treat analysis strategies for pre-post studies with loss to follow-up. *Contemporary Clinical Trials Communications*. 2018;11:20–29. <https://doi.org/10.1016/j.conctc.2018.05.008>
  3. Quisenberry AJ, Klein EG, Hinton A, Doogan NJ, Brasky TM, **Xi W**, et al. E-cigarette and Combustible Tobacco Use Motivations among Exclusive and Dual E-cigarette Users. *Tobacco Regulatory Science*. 2018;4(4):63–72. <https://doi.org/10.18001/TRS.4.4.7>
  2. Doogan NJ, Cooper S, Quisenberry AJ, Brasky TM, Browning CR, Klein EG, et al. The role of travel distance and price promotions in tobacco product purchase quantity. *Health & Place*. 2018;51:151–157. <https://doi.org/10.1016/j.healthplace.2018.03.009>
  1. Brasky TM, Hinton A, Doogan NJ, Cooper SE, Nagaraja HN, **Xi W**, et al. Characteristics of the tobacco user adult cohort in urban and rural Ohio. *Tobacco Regulatory Science*. 2018;4(1):614–630. <https://doi.org/10.18001/TRS.4.1.8>

### Manuscripts Under Review

6. Rashkovich S\*, **Xi W**\*, Sombrotto LB, Pathak J, Sharma M, Shayevitz C. Independent and joint associations between patient characteristics and the triaging process of the telepsychiatry consultation-liaison service for acute care. Submitted to *Journal of Psychiatric Research*.
5. Zhou X#, Wang X, **Xi W**. Temporal trends of risk factors for Black youth suicidal thoughts and behaviors in the United States from 1991 to 2021. Revision under review at *Suicide and Life-Threatening Behavior*.
4. Vekaria V, **Xi W**, Patra BG, Murphy SM, Avery J, Olfson M, Pathak J. Association of past-year mental and physical health conditions with intentional or unintentional drug overdoses. Submitted to *Journal of Substance Use and Addiction Treatment*.
3. **Xi W**, Evans L, Wu Y, Kim M, Ghosh AK, Alexopoulos GS, Pathak J, Banerjee S. Prediction of adverse mental health outcomes using population-based risk stratification models in late middle aged adults with depression. Submitted to *BMC Health Services Research*.
2. Willis LK, McCarty M, Lech C, Dajer A, Farmer B, Curato M, Mital R, **Xi W**, Osorio SN. Report of a formalized case-based peer support program to improve physician wellbeing. Submitted to *Journal of Wellness*.

1. Khan KL, Luo H, **Xi W**. Computing with R-INLA: Accuracy and reproducibility with implications for the analysis of COVID-19 data. <https://arxiv.org/abs/2111.01285>

\*: Co-first author

#: Mentee

## Manuscripts in Preparation

18. Shin J, Wu J, **Xi W**. Neighborhood-level social determinants of suicidality in youth with schizophrenia: An EHR-based study. (Invited paper; manuscript ready for submission)
17. **Xi W**, Shin J, Zima BT, Edgcomb JB, Pathak J et al. Racial disparities in health care encounters and diagnosis patterns among children and youth with suicide attempts in New York City. (Analysis complete)
16. **Xi W**, Wang X, Banerjee S. Adverse childhood experiences, mental health disorders, and suicidal thoughts and behaviors in Youth: A moderated mediation analysis. (Analysis complete)
15. **Xi W\***, Rashkovich S\*, Sharma M, Shayevitz C, Pathak J. Developing a clinical decision support algorithm for the triage of patients evaluated by a telepsychiatry consultation-liaison service. (Analysis complete)
14. **Xi W\***, Rashkovich S\*, Sharma M, Pathak J, Shayevitz C. Quality and safety outcomes in emergency department settings pre- and post-implementation of a centralized multi-hospital telepsychiatry consultation service. (Analysis complete)
13. Rashkovich S\*, **Xi W\***, Sharma M, Pathak J, Shayevitz C. Quality and safety outcomes in hospitalized patients pre- and post-implementation of a centralized multi-hospital telepsychiatry consultation service. (Analysis complete)
12. Andy C, Parquet J#, Strickland A#, Wang X, **Xi W**. Trends of associations between suicidal thoughts and behaviors and substance use among US adolescents: 1991-2021. (Analysis complete)
11. Carter E, **Xi W**, Culver C, Rollandi I, JA Sirey, Banerjee S. A data-driven methodology for defining ethnic enclaves and their associations with self-reported depression and anxiety among senior Latinx and Asian American adults in New York City. (Analysis complete)
10. **Xi W**, Banerjee S, Kim S, Wu J, Pathak J et al. Demographic and clinical factors on the pathway from suicidal ideation to suicide attempts among children and youth: An electronic health record-based study.
9. **Xi W**, Wu J, Pathak J, Banerjee S et al. Predictive modeling of Black youth suicidal ideation, suicide attempts, and death among Black children and youth using electronic health records data.
8. **Xi W**, Zhang H, Wu Y, Banerjee S. An overall discrimination measure for survival models. (Manuscript draft available; target journal: *Statistics in Medicine*)
7. Liang P, Vekaria V, **Xi W**, Pathak J. Associations between perinatal depression and postpartum acute care utilization in New York City. (Manuscript draft available)
6. Vekaria V, Patra BG, Adekanattu P, **Xi W**, Weiner MG, Osborne LM, Pathak J. Who was screened for social needs? Disparities in social determinants of health (SDoH) ICD-10 Z codes in New York City. (Manuscript draft available)
5. Patra BG, Lepow LA, Vekaria V, **Xi W**, Sharma MM, Adekanattu P, Florez-Arango JF, Xiao Y, Ryu E, Biernacka JM, Talati A, Weissman M, Olfson M, Mann JJ, Charney AW, Pathak J. Social support and isolation using natural language processing in electronic health records: A study of medical and psychiatric disorders. (Manuscript draft available)

4. Liang P, Vekaria V, **Xi W**, Lipkind H, Osborne L, Friedman A, Avery J, Olfson M, Pathak J. Analyzing receipt of medications for opioid use disorder (OUD) among commercially insured pregnant women with OUD in the United States, 2012–2019.
3. Vekaria V, Liang P, **Xi W**, Lipkind H, Osborne L, Friedman A, Olfson M, Pathak J. Analyzing treatment patterns among commercially insured mothers with postpartum depression in the United States, 2012-2022.
2. Weisberg I, Singh P, Bsrat M, Karim G, Huang S, Zaher A, Lin Z, Chanin M, Badillo N, **Xi W**, Lee J, Kim R. Real world, large scale application of the AGA MASLD pathway: Pitfalls, challenges and success story.
1. Wan D, Martin T, Persaud T, Chan K, Tewani S, Scanlon P, Magahis PJ, Mathews S, Aboubakr A, Clarke L, Palanisamy S, Bodnar D, Murphy S, Fortune B, **Xi W**, Lee J, Malhotra A. The impact of a CT angiography-guided protocol for severe lower gastrointestinal bleeding on utilization and outcomes.

\*: Co-first author

#: Mentee

## CONFERENCE PROCEEDINGS

---

### Invited Talks

3. (*Forthcoming*) ENAR 2025 Spring Meeting, New Orleans, LA, Mar 2025.
  - “Challenges and Methodological Advances in Utilizing Big and Small Data for Depression Treatment”
2. 2025 International Conference on Health Policy Statistics (ICHPS), San Diego, CA, Jan 2025.
  - “Predicting Preventable and Psychiatric Hospitalizations in Late Middle-Aged Adults With Depression”
1. 10<sup>th</sup> Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, Boston, MA, Jun 2023.
  - “Analysis of Big Data in Mental Health Research: Opportunities and Challenges”

### Oral Presentations

8. American Academy of Child and Adolescent Psychiatry (AACAP) 2024 Annual Meeting, Seattle WA, Oct 2024.
  - “Characteristics of Black and White Children and Youth With Suicide Attempts in New York City From 2016 to 2023”
7. 11<sup>th</sup> Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, New York, NY, Jun 2024.
  - “Adverse Childhood Experiences, Mental Health Disorders, and Suicidality in Youth: A Moderated Mediation Analysis”
6. Suicide Research Symposium (SRS), Virtual, Apr 2024.
  - “Trends of Risk Factors for Black Youth Suicidality in the US From 1991 to 2021”
5. Suicide Research Symposium (SRS), Virtual, Apr 2023.
  - “Factors Associated With Black Youth Suicidality”
4. Joint Statistical Meetings (JSM), Virtual, Aug 2021.
  - “Overall AUC for Survival Models”
3. American Medical Informatics Association (AMIA) 2020 Annual Symposium, Virtual, Nov 2020.

- “Healthcare Contacts Among Patients with Psychiatric Hospitalization Admitted Through the Emergency Department”
- 2. Joint Statistical Meetings (JSM), Virtual, Aug 2020.
  - “EHR Phenotyping of Depressed Patients: A Hierarchical Bayesian Latent Variable Modeling Approach”
- 1. Joint Statistical Meetings (JSM), Denver, CO, Jul 2019.
  - “Overlapping Activity Patterns and Community Detection in Ecological Networks”

## **Posters**

21. (*Forthcoming*) “Racial Differences in Trends in the Association between Adolescent Substance Use and Suicidality”
  - Suicide Research Symposium (SRS), Virtual, Apr 2025.
20. “Characteristics of Black and White Children and Youth with Suicide Attempts in New York City, 2016-2023”
  - AcademyHealth Annual Research Meeting (ARM), Baltimore, MD, Jun-Jul 2024.
19. “Association of Past-Year Mental Health and Substance Use Disorders With Intentional or Unintentional Drug Poisoning”
  - AcademyHealth Annual Research Meeting (ARM), Baltimore, MD, Jun-Jul 2024.
18. “Implementing a Centralized Multi-Hospital Telepsychiatry Consultation Service for Acute Care Settings: Impact on Quality and Safety”
  - Quality in Care Symposium, New York, NY, May 2024.
17. “Using Machine Learning to Optimize Triaging of Patients Evaluated by a Telepsychiatry Consultation-Liaison Service”
  - American Psychiatric Association (APA) Annual Meeting, New York, NY, May 2024.
16. “Trends of Risk and Protective Factors for Black Youth Suicidality in the US From 1991 to 2019”
  - Advances in Mental Health and Psychiatry, Paris, France & Online, Sep 2023.
15. “Quality and Safety Outcomes Pre- and Post-Implementation of a Centralized Multi-Hospital Telepsychiatry Consultation Service for Acute Care Settings”
  - American Psychiatric Association (APA) Annual Meeting, San Francisco, CA, May 2023.
14. “Effects of Geography on Risk for Suicidal Ideation and Suicide Attempts Among Commercially Insured Children and Youth in the United States”
  - The American Academy of Child and Adolescent Psychiatry and Canadian Academy of Child and Adolescent Psychiatry (AACAP/CACAP) Annual Meeting, Toronto, Canada, Oct 2022.
13. “Demographic and Clinical Factors Associated With Reassignment to In-Person Psychiatric Evaluation in a Centralized Multi-Hospital Telepsychiatry Consultation Service for Acute Care Settings”
  - 22<sup>nd</sup> WPA World Congress of Psychiatry (WCP), Bangkok, Thailand & Online, Aug 2022.
12. “Comparison of Demographic Characteristics and Trends in Healthcare Utilization and Spending Among Commercially Insured US Adults With and Without an Eating Disorder Diagnosis”
  - 22<sup>nd</sup> WPA World Congress of Psychiatry (WCP), Bangkok, Thailand & Online, Aug 2022.
11. “Impact of Geographic Regions on Risk Factors for Suicidal Ideation and Suicide Attempts Among Commercially Insured US Adults Following an Outpatient Psychiatric Encounter”
  - 22<sup>nd</sup> WPA World Congress of Psychiatry (WCP), Bangkok, Thailand & Online, Aug 2022.
10. “An Overall Measure of the Predictive Accuracy of Survival Models”



- 9<sup>th</sup> Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, New York, NY, June 2022.
- 9. "Trends in Suicidal Thoughts and Behaviors and Substance Use Among U.S. Youth From 1991 to 2019"
  - 9<sup>th</sup> Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, New York, NY, June 2022.
  - American Psychiatric Association (APA) Annual Meeting, New Orleans, LA, May 2022.
  - Media Coverage: <https://www.medpagetoday.com/meetingcoverage/apa/98931>
- 8. "Impact of US Regions on Risk Factors for Suicidal Ideation and Suicide Attempt Among Commercially Insured Youth With an Outpatient Psychiatric Visit"
  - American Psychiatric Association (APA) Annual Meeting, New Orleans, LA, May 2022.
- 7. "Impact of US Geographical Regions on Risk Factors for Suicidal Ideation and Suicide Attempt"
  - IASR/AFSP International Summit on Suicide Research, Virtual Conference, Oct 2021.
- 6. "Impact of Social Disparities on Risk Factors for Suicidal Ideation and Suicide Attempt Among Commercially Insured Youth and Adults in the US"
  - IASR/AFSP International Summit on Suicide Research, Virtual Conference, Oct 2021.
- 5. "Impact of Socioeconomic Disparities on Risk Factors for Suicidal Ideation and Suicide Attempt"
  - 21<sup>st</sup> WPA World Congress of Psychiatry (WCP), Virtual Congress, Oct 2021.
- 4. (*Cancelled due to COVID-19*) "Using Claims Data to Study Patterns of Healthcare Contacts Among Mental Health Patients With Inpatient Emergency Department (ED) Visits"
  - American Psychiatric Association (APA) Annual Meeting, Philadelphia, PA, Apr 2020.
- 3. "Bayesian Non-Negative Matrix Factorization for Analyzing Co-Location Networks"
  - International Conference on Mathematics of Data Science (ICMDS), Old Dominion University, Norfolk, VA, Nov 2018.
  - Received the Best Presentation Award
  - Joint Statistical Meetings (JSM), Vancouver, Canada, Aug 2018.
  - OSU/CCF/CWRU Joint Biostatistics Symposium, Columbus, OH, Apr 2018.
- 2. "Bayesian Co-Location Networks: Construction, Privacy Concerns, and Latent Structure Identification"
  - Privacy in Graphs (PiG) Workshop, UC Santa Cruz, Santa Cruz, CA, Nov 2018.
- 1. "Comparing the Statistical Power of Analysis of Covariance after Multiple Imputation and the Mixed Model in Testing the Treatment Effect for Pre-Post Studies with Loss to Follow-Up"
  - OSU/CCF/CWRU Joint Biostatistics Symposium, Cleveland, OH, Apr 2015.
  - ENAR 2015 Spring Meeting, Miami, FL, Mar 2015.

## OTHER PRESENTATIONS

---

### Talks

- 3. Biostatistics Summer Internship Program, Division of Biostatistics, Department of Population Health Sciences, Weill Cornell Medicine, New York, NY, Jul 2024.
  - "Analysis of Big Data in Mental Health Research: Opportunities and Challenges"
- 2. Observational Study Reading Group, Department of Statistics, The Ohio State University, Columbus, OH, Nov 2018.
  - "Community Detection for Co-Location Networks"

1. Seminar in Social Networks, Department of Sociology, The Ohio State University, Columbus, OH, Oct 2018.
  - “Detecting Communities in Co-location Networks Using Bayesian Non-Negative Matrix Factorization”

## Posters

2. “Bayesian Non-Negative Matrix Factorization for Analyzing Co-Location Networks”
  - OSU Statistics Program Graduate Information Day (For Prospective Students), Columbus, OH, Feb 2018/2019.
  - OSU Statistics/Biostatistics Graduate Student Poster Session, Columbus, OH, Sep 2017/2018.
1. “Comparing the Statistical Power of Analysis of Covariance after Multiple Imputation and the Mixed Model in Testing the Treatment Effect for Pre-Post Studies with Loss to Follow-Up”
  - OSU Statistics/Biostatistics Graduate Student Poster Session, Columbus, OH, Sep 2014.

## MEDIA COVERAGE

---

1. Dual Therapy for Depression; Ties Between Illicit Drug Use and Youth Suicidality – A round-up of noteworthy research from the American Psychiatric Association meeting
  - <https://www.medpagetoday.com/meetingcoverage/apa/98931>

## TEACHING EXPERIENCE

---

### Weill Cornell Medicine

- Course Director
  - HBDS 5018 Data Science I Autumn 2022 – Present
- Instructor
  - HBDS 5020 Big Data in Medicine
    - \* Module II: Big administrative data for healthcare Spring 2024 – Present
- Guest Speaker
  - SYSEN 5610 Introduction to the US Healthcare System, Data, and Interoperability
    - \* Claims data from the Health Care Cost Institute (HCCI) Autumn 2024
  - CTIV 5030 Advanced Statistical Methods for Observational Studies
    - \* Complex Survey Analysis Spring 2022-2024
    - \* Analysis Methods for Pre-Post Studies with Missing Post-Test Data Spring 2022

## MENTORING EXPERIENCE

---

### Weill Cornell Medicine

- Adriel Strickland, Jacob Parquet, *WCM Biostatistics Summer Internship Program* Summer 2024
- Yijia Sun, Zhuoran Li, *WCM 2024 Summer Capstone Project* Summer 2024
- Xueqing Zhou, *Former MS Student* Autumn 2022 - Autumn 2023
- Peizi Wu, *Former MS Student* Autumn 2022 - Summer 2023
- Sydney Dingxin Lu, *Former MS Student* Summer 2022 - Spring 2023
- Jiaqi Fan, Dingxin Lu, Harshani Natarajan, *WCM 2022 Summer Capstone Project* Summer 2022
- Michael Hennig, *Lab Intern* Summer 2021 – Spring 2022
- Aishwarya Gandhe, *Lab Intern* Autumn 2020
- Isata Diallo, *WCM-CUNY Big Data to Biomedical Informatics (BD2BMI)* Autumn 2020
- Yuqi Liu, Yanru Heng, Tianchen Liu, *WCM 2020 Summer Capstone Project* Summer 2020

## HONORS AND AWARDS

---

### The Ohio State University

- Travel Fund for the PiG Workshop 2018 (\$1,200) Nov 2018



- Best Poster Presentation at ICMDS 2018 Nov 2018
- Travel Fund for ICMDS 2018 (\$500) Nov 2018
- Dr. Gary G. Koch and Mrs. Carolyn J. Koch Fellowship Aug 2018 - Aug 2019
- Delta Omega Since May 2015

### University of Science and Technology of China

- Early Graduate School Admission With the National Postgraduate Entrance Examination (NPPE) Waived Oct 2009

### Northwest Normal University

- Provincial “Three-Good” Student Honor Jun 2009
- National Encouragement Scholarship Nov 2008
- University “Three-Good” Student Honor Nov 2008
- University Learning Excellence Scholarship Nov 2008, 2009
- University Good Morality Scholarship Nov 2007, 2008

## SERVICES

---

### Committees

- *Education Officer*, American Statistical Association Mental Health Statistics Section Since 2024

### Grant Reviews

- *Biostatistics Specialist Reviewer*, Department of Defense (DoD) Congressionally Directed Medical Research Program (CDMRP) FY 2024
- *Grant Reviewer*, American University of Sharjah Internal Research Funding Program FY 2019

### Journal Reviews

- *PeerJ*
- *International Journal of Surgery*
- *International Journal of Health Geographics*
- *Journal of Adolescent Health*
- *PLOS One*
- *Applied Clinical Informatics*
- *JAACAP Open*
- *Frontiers in Public Health*
- *BMC Public Health*
- *Journal of the American Academy of Child and Adolescent Psychiatry (JAACAP)*
- *IEEE Access*
- *International Journal of Mental Health Systems*
- *Annals of the American Association of Geographers*
- *Journal of the American Medical Directors Association*

### Conference Reviews

- *American Medical Informatics Association (AMIA) 2022 Annual Symposium*
- *American Medical Informatics Association (AMIA) 2022 Clinical Informatics Conference (CIC)*
- *American Medical Informatics Association (AMIA) 2021 Annual Symposium*
- *American Medical Informatics Association (AMIA) 2021 Clinical Informatics Conference (CIC)*
- *American Medical Informatics Association (AMIA) 2020 Annual Symposium*

### Conferences

- *Chair*, JSM Invited Session: Digital Phenotyping Aug 2020
- *Chair*, ENAR Contributed Papers: Statistical Methods for Genomics Mar 2015

### The Ohio State University

- *Member*, College of Public Health Excellence in Teaching Award Committee Spring 2018, 2019
- *Panelist*, Graduate School Survival Skills Autumn 2018

**CERTIFICATES**

---

- |  |             |
|--|-------------|
| • Suicide Prevention Program REACH <sup>®</sup> Training (OSU) | Autumn 2018 |
| • Diversity and Implicit Bias Training (OSU)                   | Spring 2018 |
| • Teaching Certificate (High School Math in China)             | Spring 2010 |
| • Intel Future Oriented Teaching Diploma (China)               | Autumn 2007 |

**PROFESSIONAL SKILLS**

---

<b>Software</b>	R (tidyverse, NIMBLE, GIS, Shiny, doParallel), SAS, Stata, JMP, Minitab, L <sup>A</sup> T <sub>E</sub> X, SQL
<b>System</b>	UNIX/Linux, macOS, Windows

**PROFESSIONAL MEMBERSHIP**

---

- |   |            |
|---|------------|
| • International Network of Early Career Researchers in Suicide and Self-harm (netECR) | Since 2023 |
| • American Psychological Association (APA)  | 2022       |
| • Institute of Mathematical Statistics (IMS)  | 2019-2022  |
| • American Statistical Association (ASA)  | Since 2018 |
| • Delta Omega   | Since 2015 |