

Wenna Xi

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RESEARCH INTERESTS

Applications: Suicide, Substance Use, Eating Disorder, Mental Health, Healthcare Utilization, Social Determinants of Mental Health, Health Equity, Activity Spaces/Patterns

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

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
- 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

University of Science and Technology of China, Hefei, China

- M.S., Biomathematics Jun 2012
 - *Advisor:* Yi Wang
 - *Thesis:* Principle of Competitive Exclusion in Chemostat with Almost Periodic/Quasiperiodic Nutrient Input

Northwest Normal University, Lanzhou, China

- B.S., Mathematics Jun 2010
 - *Thesis:* Some Problems of Modern Intraclass Correlation Coefficients in the Sight of the Original Definition

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

PUBLICATIONS

Methodology

3. **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>
2. **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>
1. **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>

Applications

15. 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>
14. Scales D, Hurth L, **Xi W**, Gorman S, Radhakrishnan M, Windham S, et al. Addressing Anti-vaccine 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>
13. **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>
12. 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>
11. 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>
10. 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/js9.000000000000169>
9. **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>
8. 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>
7. **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>

6. 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>
5. 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>
4. 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>
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

4. 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. Submitted to *Suicide and Life-Threatening Behavior*.
3. 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. Submitted to *Arboriculture & Urban Forestry*.
2. Jiang L, McGinnis C, Benton E, Nawa E, Stern M, **Xi W**, Sharma R, Daniels B. Feasibility of in-home fall-risk reduction following emergency department discharge using community teleparamedicine. Submitted to *Journal of the American Geriatrics Society*.
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>

*: Mentee

Manuscripts in Preparation

15. **Xi W**, Banerjee S, Olfson M, Alexopoulos GS, Pathak J. Geographic regions and risk of suicidal ideation and attempts among commercially insured US adults following an outpatient psychiatric encounter. (Manuscript ready; target journal: *Comprehensive Psychiatry*)
14. Evans L, **Xi W**, 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. (Target journal: *BMC Health Services Research*)
13. Wu P*, **Xi W**. Identifying factors associated with US adolescents behaviors and experiences during COVID-19 using logistic LASSO regression on complex survey data. (Manuscript ready)

12. Rashkovich S, **Xi W**, Sharma M, Pathak J, Shayevitz C. Independent and joint associations between patient characteristics and the triaging process of the telepsychiatry consultationliaison service for acute care.
11. Rashkovich S, **Xi W**, Sharma M, Pathak J, Shayevitz C. Quality and safety outcomes in emergency departments pre- and post-implementation of a centralized multi-hospital telepsychiatry consultation service for acute care settings.
10. Rashkovich S, **Xi W**, Sharma M, Shayevitz C, Pathak J. Developing a clinical decision support algorithm for the triage of patients evaluated by a telepsychiatry consultation-liaison service.
9. Willis L et al. Case-based peer support: Breaking the culture of silence to improve physician wellbeing and patient care.
8. Chan K and Wan D et al. The impact of a CT angiography-guided protocol for severe lower gastrointestinal bleeding on utilization and outcomes.
7. Vekaria V, **Xi W**, Patra BG, Murphy SM, Avery J, Olfson M, Pathak J. Association of past-year mental health and substance use disorders with intentional or unintentional drug overdoses.
6. Vekaria V, Patra BG, Adekkanattu 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.
5. Patra BG et al. Social support and isolation using natural language processing in electronic health records: A study of medical and psychiatric disorders.
4. Liang P & Vekaria V et al. Analyzing receipt of medications for opioid use disorder among commercially insured pregnant women with OUD in the United States, 2012-2020.
3. Liang P & Vekaria V et al. Analyzing treatment patterns among commercially insured mothers with postpartum depression in the United States, 2012-2022.
2. Hennig M*, Murphy SM, Avery J, Xiao Y, Banerjee S, Pathak J, **Xi W**. Trends of associations between suicidal behaviors and substance use among US adolescents: 1991 – 2019. (Manuscript ready; target journal: *Journal of Substance Abuse Treatment*)
1. **Xi W**, Zhang H, Wu Y, Banerjee S. An overall discrimination measure for survival models. (Manuscript almost ready; target journal: *Statistics in Medicine*)

*: Mentee

CONFERENCE PROCEEDINGS

Invited Talks

1. 10th Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, Boston, MA, June 2023.
 - “Analysis of Big Data in Mental Health Research: Opportunities and Challenges”

Oral Presentations

6. (*Forthcoming*) Suicide Research Symposium (SRS), Virtual, Apr 2024.
 - “Precision Targets for Suicide Prevention in Childhood: Insights from Large-Scale Clinical and Publicly-Available Data Sources”
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

17. (*Forthcoming*) “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.
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”
 - 22nd 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”
 - 22nd 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”
 - 22nd WPA World Congress of Psychiatry (WCP), Bangkok, Thailand & Online, Aug 2022.
10. “An Overall Measure of the Predictive Accuracy of Survival Models”
 - 9th 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”
 - 9th 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”
- 21st 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 Spring Meeting, Miami, FL, Mar 2015.

OTHER PRESENTATIONS

Talks

4. Division of Biostatistics and Epidemiology, Department of Healthcare Policy and Research, Weill Cornell Medicine, Cornell University, New York, NY, May 2019.
- “Overlapping Activity Patterns and Community Detection in Co-Location Networks”
3. Division of Biostatistics, Department of Preventive Medicine, Feinberg School of Medicine, Northwestern University, Chicago, IL, Apr 2019.
- “Overlapping Activity Patterns and Community Detection in Co-Location Networks”
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.

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

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 2022-2023
- Instructor
 - HBDS 5020 Big Data in Medicine
 - * Module II: Big administrative data for healthcare Spring 2024
- Guest Speaker
 - 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

The Ohio State University

- Summer 2015 (Grader w/ Office Hours)
 - PUBHBIO 7194 Group Studies in Biostatistics
- Spring 2015 (Grader w/ Office Hours)
 - PUBHBIO 6210 Design and Analysis of Studies in the Health Sciences I
 - PUBHBIO 7215 Design and Analysis of Clinical Trials
- Autumn 2014 (Grader w/ Office Hours)
 - PUBHBIO 6210 Design and Analysis of Studies in the Health Sciences I
 - PUBHBIO 6212 Regression Methods for the Health Sciences
 - PUBHBIO 7235 Applied Survival Analysis
 - PUBHBIO 7240 Applied Statistical Analysis with Missing Data

University of Science and Technology of China

- Autumn 2011 (Grader w/ Recitation Classes & Office Hours)
 - Calculus I (for Undergraduates in Computer Sciences)
- Spring 2011 (Grader w/ Recitation Classes & Office Hours)
 - Calculus II (for Undergraduates in Computer Sciences)

Northwest Normal University

- Autumn 2009 (Teaching Practicum)
 - High School Math in Chongqing, China

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 (NPEE) 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

Mentoring

- 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

Ad Hoc Reviewer

- *Applied Clinical Informatics*
- *JAACAP Open*
- *Frontiers in Public Health*
- *BMC Public Health*
- *Journal of the American Academy of Child and Adolescent Psychiatry (JAACAP)*
- *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*
- *IEEE Access*
- *American Medical Informatics Association (AMIA) 2021 Clinical Informatics Conference (CIC)*
- *International Journal of Mental Health Systems*
- *Annals of the American Association of Geographers*
- *Journal of the American Medical Directors Association*
- *American Medical Informatics Association (AMIA) 2020 Annual Symposium*
- American University of Sharjah Internal Research Funding Program

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® 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

Software	R (tidyverse, NIMBLE, GIS, Shiny, doParallel), SAS, Stata, JMP, Minitab, L ^A T _E X, SQL
System	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