

# Wenna Xi

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## RESEARCH INTERESTS

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Co-location Network Analysis, Social Network Analysis, Spatial Statistics, Longitudinal Data Analysis, Bayesian Modeling and Computation, Correlated Data, Mixture Models

## EDUCATION

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### The Ohio State University, Columbus OH

- Ph.D., Biostatistics Expected: Aug 2019
  - *Advisor*: Catherine A. Calder
  - *Dissertation*: Bayesian Non-negative Matrix Factorization for Analyzing Co-location Networks
- 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

### 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

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### 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 2013

*Teaching Assistant*, Department of Mathematics

Feb 2011 – Jan 2012

## PUBLICATIONS

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### Methodology

1. Xi, W., Pennell, M. L., Andridge, R. R., and Paskett, E. D. (2018). Comparison of intent-to-treat analysis strategies for pre-post studies with loss to follow-up. *Contemporary Clinical Trials Communications*, 11:20–29

### Applications

7. Burgoon, M. L., Albani, T., Keller-Hamilton, B., Lu, B., Roberts, M. E., Craigmile, P. F., Browning, C. R., **Xi, W.**, and Ferketich, A. K. Between Home and School: Exposures to the Tobacco Retail Environment among Adolescent Boys. *Accepted at The American Journal of Drug and Alcohol Abuse*.
6. Sweet, L., Brasky, T. M., Cooper, S., Doogan, N., Hinton, A., Klein, E. G., Nagaraja, H., Quisenberry, A., Xi, W., and Wewers, M. E. (2018). Quitting behaviors among dual cigarette/e-cigarette users and cigarette smokers enrolled in the tobacco user adult cohort (tuac). *Nicotine & Tobacco Research*
5. Roberts, M. E., Keller-Hamilton, B., Hinton, A., Browning, C. R., Slater, M. D., **Xi, W.**, and Ferketich, A. K. (2019). The magnitude and impact of tobacco marketing exposure in adolescents' day-to-day lives: An ecological momentary assessment (ema) study. *Addictive behaviors*, 88:144–149
4. Quisenberry, A. J., Klein, E. G., Hinton, A., Doogan, N. J., Brasky, T. M., **Xi, W.**, Cooper, S., Nagaraja, H. N., and Wewers, M. E. (2018). E-cigarette and combustible tobacco use motivations among exclusive and dual e-cigarette users. *Tobacco Regulatory Science*, 4(4):63–72
3. Doogan, N. J., Cooper, S., Quisenberry, A. J., Brasky, T. M., Browning, C. R., Klein, E. G., Hinton, A., Nagaraja, H. N., **Xi, W.**, and Wewers, M. E. (2018). The role of travel distance and price promotions in tobacco product purchase quantity. *Health & place*, 51:151–157
2. Brasky, T. M., Hinton, A., Doogan, N. J., Cooper, S. E., Nagaraja, H. N., **Xi, W.**, Shields, P. G., and Wewers, M. E. (2018). Characteristics of the tobacco user adult cohort in urban and rural ohio. *Tobacco regulatory science*, 4(1):614–630
1. Wong, P., Wang, X., **Xi, W.**, Li, L., and Yu, X. (2014). Mothers do not enhance phonemic contrasts of mandarin lexical tones in child-directed speech. *The Journal of the Acoustical Society of America*, 135(4):2316–2316

### Manuscripts under Review

1. Quisenberry, A. J., Hinton, A., **Xi, W.**, Klein, E. G., Brasky, T. M., Cooper, S. E., Nagaraja, H. N., and Wewers, M. E. The association between ENDS flavor and tobacco product reduction and cessation in dual cigarettes/ENDS and ENDS only users. *Second revision submitted at Addictive Behaviors*.

### Manuscripts in Preparation

3. **Xi, W.**, Hinton, A., Sukasih, A., Krotki, K., Ferketich, A. K., and Lu, B.. A comparison of existing methods for combining probability and non-probability samples.
2. **Xi, W.**, Calder, C. A., and Browning, C. R.. Community Detection in Co-location Networks.
1. **Xi, W.**, Calder, C. A., and Browning, C. R.. Bayesian non-negative matrix factorization for analyzing co-location networks.

## PRESENTATIONS AND POSTERS

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### Presentations

1. **Xi, W.**, Calder, C. A., and Browning, C. R. Detecting Communities in Co-location Networks Using Bayesian Non-negative Matrix Factorization.
  - Seminar in Social Networks, OSU, Columbus OH, Oct 2018.

### Posters

2. **Xi, W.**, Calder, C. A., and Browning, C. R.. Bayesian Non-negative Matrix Factorization for Analyzing Co-location Networks.

- ICMDs (International Conference on Mathematics of Data Science), Norfolk VA, Nov 2018.
    - Received the Best Presentation Award
  - OSU Statistics/Biostatistics Graduate Student Poster Session, Columbus OH, Sep 2017/2018.
  - Joint Statistical Meetings (JSM), Vancouver Canada, Aug 2018.
  - OSU/CCF/CWRU Joint Biostatistics Symposium, Columbus OH, Apr 2018.
  - OSU Statistics Program Graduate Information Day (For Prospective Students), Columbus OH, Feb 2018.
1. **Xi, W.**, Pennell, M. L., Andridge, R. R., and Paskett, E. D.. 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.
    - OSU Statistics/Biostatistics Graduate Student Poster Session, Columbus OH, Sep 2014.

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## TEACHING EXPERIENCE

### 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

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## HONORS AND AWARDS

### The Ohio State University

- Best Poster Presentation at ICMDs 2018 Nov 2018
- Dr. Gary G. Koch and Mrs. Carolyn J. Koch Fellowship Aug 2018 - Aug 2019
- Delta Omega May 2015

### University of Science and Technology of China

- Early Admission to USTC Graduate School with National Entrance Examination 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

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### The Ohio State University

- *Panelist*, Graduate School Survival Skills Autumn 2018
- *Member*, CPH Excellence in Teaching Award Committee Spring 2018
- *Facilitator*, English Conversation Program (ECP) Autumn 2015
- *Committee Member*, OUAB Grad/Prof Autumn 2014 – Spring 2015
- *Member*, English Conversation Program (ECP) Summer 2014 – Autumn 2014
- *Site Leader*, Community Commitment Autumn 2014
- *Volunteer*, International Friendships Inc. (IFI) Summer 2013
- *Volunteer*, Healthy Asian Youth (HAY) Afterschool Program Spring 2013
- *Volunteer*, Project Fight AIDS Autumn 2012
- *Member*, Multicultural Public Health Student Association Autumn 2012

### Northwest Normal University

- *Volunteer*, Chinese Young Volunteers Association Autumn 2006 - Spring 2010
- *Member*, College's Track and Field Team 2007, 2009, and 2011
- *Member*, College's Women Basketball Team 2009 and 2011
  - 2nd in Women's Basketball Match at NWNNU China Spring 2009

## CERTIFICATES

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

## PROFESSIONAL SKILLS

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

## PROFESSIONAL MEMBERSHIP

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- Caucus for Women in Statistics (CWS) Since 2018
- American Statistical Association (ASA) Since 2017
- Delta Omega Since 2015