

# Wei-Lin Wang

*Curriculum Vitae*, July 2020

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## EDUCATION

- 2019            Ph.D., Dual Degree in Rural Sociology and Demography  
 Pennsylvania State University, University Park, PA, USA
- 2011            M.S., Rural Sociology  
 National Taiwan University, Taipei, Taiwan
- 2005            B.A., Rural Sociology  
 National Taiwan University, Taipei, Taiwan

## POST-GRADUATE TRAINING

- 2019 - Present    Postdoctoral Scholar, Real-Time Eating Activity and Children's Health (REACH) Lab  
 Department of Preventive Medicine at the Keck School of Medicine  
 University of Southern California, Los Angeles, CA, USA

## RESEARCH INTERESTS

**Methodology and survey:** Quantitative methods, survey methods, spatial statistics

**Ecological momentary assessment (EMA) research, design and analysis**

**Spatial and environmental inequality in health (childhood obesity) and well-being**

## PROFESSIONAL EMPLOYMENT

Postdoctoral Scholar, University of Southern California, Los Angeles, CA

- 2019 - Present    Real-Time Eating Activity and Children's Health (REACH) Lab  
 Department of Preventive Medicine at the Keck School of Medicine  
 Research Mentor: Genevieve F. Dunton, PhD, MPH
- ◆ *Develop, test and apply EMA Novel Stat methods*
  - ◆ *Plan, design and conduct highly technical and complex research projects*
  - ◆ *Analyze research data and contribute to the development of research documentation for publication*
  - ◆ *Provide lectures and training in Statistic and Survey Methods for graduate students*

*(Funding source: NIH/NCI R01CA240713)*

Graduate Research Assistant, Pennsylvania State University, State College, PA

- 2018.8 - Department supported Research Assistant: Applied Demography  
 2019.6 Research Advisor: Stephen Matthews, PhD & Gordon De Jong, PhD
- ◆ *Develop, test, revise and organize instructional materials and support service for the Applied Demography World Campus programs (The Applied Demography World Campus programs: online course project)*
- 2018.1 - Department supported Research Assistant: Rural Sociology  
 2018.7 Research Advisor: Leif Jensen, PhD & Brian Thiede, PhD
- ◆ *Process ACS & CPS data and conduct data analysis and visualization (The Center for Rural PA project)*
- 2016.9 - Department supported Research Assistant: Rural Sociology & Demography  
 2017.12 Research Advisor: Leif Jensen, PhD
- ◆ *Conduct data analysis and visualization (Poverty and underemployment research)*
- 2016.9 - Department supported Research Assistant: Demography Research Advisor:  
 2017.12 Guangqing Chi, PhD
- ◆ *Use Python to conduct data processing (1.5TB) and data analysis from Twitter (Big data project – Twitter population projection research)*
- 2013.9 - Volunteer Research Assistant: Population Research Institute Geographic  
 2016.8 Information Analysis Core  
 Research Advisor: Yosef Bodovski
- ◆ *Use ArcGIS to conduct geocoding and support service for GIA research*

Research Assistant, Taiwan

- 2009 - 2013 Senior Research Specialist  
 for “Taiwan Integrated Postsecondary Education Database” Project  
 Center for Educational Research and Evaluation, National Taiwan Normal University  
 Principal Investigator: Li-Yun Wang, PhD
- ◆ *Conduct sampling design, survey data quality control and data analysis*
- 2003 - 2009 Research Assistant  
 for “The Effects of School Context and Friendship Networks to High School Students Physical and Mental Development and Learning Achievements” Project  
 Institute of Sociology, Academia Sinica  
 Principal Investigator: Chin-Chun Yi, PhD, Chyi-In Wu, PhD and et al.
- ◆ *Data processing, information arrangement, and social network data analysis*

### AWARDS / CERTIFICATES

The Fellowship of the Taiwanese Government Sponsorship for Overseas Study, 2013-2015  
 Outstanding Abstract by a First-Time Submitter Award, SBM Sleep SIG, 2020  
 Certificate of Survey Research. Survey Research Center, the Pennsylvania State University, 2015  
 The Scholars for The Data Incubator (Top 3% of the applicants), 2018  
 Data Protection Training Workshop Completion Certificate. Academia Sinica, 2010

### DISSERTATION

**Wang, Wei-Lin** “Childhood Obesity and Rural Disparities: A Multilevel and Life-course Investigation of Rurality and Childhood Obesity”

### PUBLICATIONS / MANUSCRIPTS IN PROGRESS

Noah, Aggie, Tse-Chuan Yang and **Wei-Lin Wang**. “The Black-White Disparity in Sexually Transmitted Diseases during Pregnancy: How Do Racial Segregation and Income Inequality Matter?” *Sexually Transmitted Diseases*, 45(5), 301-306.

Dunton, Genevieve F., **Wei-Lin Wang**, Stephen Intille, Eldin Dzibur, Aditya Ponnada, Donald Hedeker. “Examining Changes in ‘Fast’ Behavioral Processes Across ‘Slow’ Timescales: An Illustration Using Ecological Momentary Assessment Nested within a Longitudinal Study of Physical Activity in Children.”

Mason, Tyler B., Theresa Bastain, **Wei-Lin Wang**, Sydney G. O’Connor, Jane Cabison, Christine H. Naya, Daniel Chu, Sandrah P. Eckel, Chih-Hsiang Yang, Rima Habre, Carrie V. Breton, and Genevieve F. Dunton. “Bi-directional Associations of Affective States and Diet among Low-income Hispanic Pregnant Women Using Ecological Momentary Assessment.”

**Wang, Wei-Lin**, Genevieve F. Dunton, and Donald Hedeker. “Mean Level and Variability of Positive Affect and Sleep Quantity among Mothers. An Ecological Momentary Assessment Study with Mixed-Effect Location Scale Analysis.”

**Wang, Wei-Lin**. “Is Changing Rural Poverty Real or Artifactual? Implications of County Reclassification in the U.S.”

### CONFERENCE PAPERS / POSTERS

**Wang, Wei-Lin**. (2020) “Childhood obesity and rural disparities: rurality, environment and body mass index among U.S. children.” Poster presented at the Population Association of America Annual Meeting, Washington, DC, USA. \*Cancelled due to COVID-19\*

**Wang, Wei-Lin**, Genevieve F. Dunton, and Donald Hedeker. (2020) “Mean Level and Variability of Positive Affect and Sleep Quantity among Mothers. An Ecological Momentary Assessment Study with Mixed-Effect Location Scale Analysis.” Poster presented at the Society of Behavioral Medicine Annual Meeting, San Francisco, USA. \*Cancelled due to COVID-19\*

**Wang, Wei-Lin**. (2017) “The Black-White Disparities in Perinatal Health: An Insight from Birth Weight Gap between U.S. Black and Foreign-born Black.” Poster presented at the Population Association of America Annual Meeting, Chicago, USA.

**Wang, Wei-Lin**, Junjun Yin and Guangqing Chi. (2017) “Who Are You? Estimating Demographics of Twitter Users.” Poster presented at the Population Association of America Annual Meeting, Chicago, USA.

**Wang, Wei-Lin**. (2016) “Poverty and Population Change in Rural America: The Structural Patterns and the Dynamics.” Paper presented at the Rural Sociology Society Annual Meeting, Toronto, Canada.

Jensen, Leif and **Wei-Lin Wang**. (2015) “Underemployment among Rural Immigrants: Insights from a Family Labor Utilization Framework.” Paper presented at the 2015 meetings of the European Society for Rural Sociology, Aberdeen, Scotland.

Wang, Donghui and **Wei-Lin Wang**. (2015) “Postponing Motherhood: Taiwan and Southeast China Comparative Research.” Paper presented at the Rural Sociology Society Annual Meeting, Madison, Wisconsin, USA.

**Wang, Wei-Lin**, and Li-Yun Wang. (2013) “Expanding Access to Higher Education or Reproducing Inequality? Lessons from Low Admission Score in Taiwan’s Higher Education.” Roundtable presented at the Annual Meeting of the American Educational Research Association, San Francisco, California, USA.

Chiang, Shu-Chen, **Wei-Lin Wang** and Li-Yun Wang. (2012) “Investigating the Relationship between Graduate Responses and Their Returning Participation to Boost Response Rates of Tracer Studies: The Case of TIPED.” Poster presented at Letter International Conference on Experience with Link and Match in Higher Education: Result of Tracer Studies Worldwide (EXLIMA), Bali, Indonesia.

**Wang, Wei-Lin**, and Li-Yun Wang. (2012) “The Killing Questions.” Roundtable presented at the Annual Meeting of American Sociological Association, Denver, Colorado, USA.

Wang, Li-Yun, and **Wei-Lin Wang**. (2011) “For Better or Worse: Analyzing the Impact of College Low Admission Scores.” Paper presented at CERE International Conference, Taipei, Taiwan.

Yang, Meng-Li, Li-Yun Wang, and **Wei-Lin Wang**. (2010) “Three Experiments in a Web Survey.” Paper presented at 10<sup>th</sup> International Symposium on Grid Computing (ISGC), Taipei, Taiwan.

### PROFESSIONAL WORKSHOPS / TALKS

- 2020.04 Instructor at REACH Lab Meeting  
Department of Preventive Medicine at the Keck School of Medicine  
University of Southern California  
*“How and Why Calculate Within-subject and Between-subject Variance in EMA/Multilevel Data?”*
- 2020.05 Instructor at REACH Lab Meeting  
Department of Preventive Medicine at the Keck School of Medicine  
University of Southern California  
*“How to Use EMA Accelerometer Data and Why the Definition of Valid Time Matters? Part I: Clustering Analysis.”*
- 2020.06 Instructor at REACH Lab Meeting  
Department of Preventive Medicine at the Keck School of Medicine  
University of Southern California  
*“How to Use EMA Accelerometer Data and Why the Definition of Valid Time Matters? Part II: Data Simulation and Examination.”*
- 2010 - 2013 Instructor at the Center for Educational Research and Evaluation  
National Taiwan Normal University  
*“Instruction of Institutional Research Analysis and Online Data Analysis System”*
- 2011 - 2013 Teaching Assistant at the Center for Educational Research and Evaluation  
National Taiwan Normal University  
*“Intensive Quantitative Methods: Advanced HLM and SEM.”*

### TEACHING EXPERIENCE

- 2008 - 2009 Teaching Assistant in the Department of Rural Sociology,  
National Taiwan University  
*“Research Methods for Social Science”* (Winner of Outstanding TA at NTU, 2009)
- 2005 - 2006 Teaching Assistant in the Department of Rural Sociology,  
National Taiwan University  
Department of Rural Sociology, National Taiwan University  
*“Statistics I & II”* (Winner of Outstanding TA at NTU, 2006)

### **STATISTICS SKILLS**

Multilevel Modeling, Spatial Modeling, Demographic Techniques, Structural Equation Modeling, and Social Network Analysis

### **COMPUTER SKILLS**

**General Software:** WORD, EXCEL, POWERPOINT

**Statistic Software:** SAS, SPSS, Stata, HLM, MixWild

**Other Software:** Python, ArcGIS, GeoDA, Q-GIS, UCINET