

LIN WANG

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EXPERIENCE

- 2012-Present **DUKE UNIVERSITY**, Center for Child and Family Policy Durham, NC
Post-Doctoral Associate
- Manage multiple datasets, including integrating data from various sources in different formats, restructuring data, creating measurements, and automatically producing web-based codebooks with descriptive analysis.
 - Collaborate with software developers to create backend data monitoring, reporting, and exporting tools for a Ruby on Rails application. The application is part of a mobile data collection platform.
 - Manage large genotype/phenotype data (including SAGE, CHS, MESA, and ARIC) from dbGaP for epidemiological research projects.
- 2006-2012 **UNIVERSITY OF NORTH CAROLINA**, Center for Child and Family Policy Chapel Hill, NC
Post-Doctoral Research Associate (2009-2012)
- Managed and analyzed large multi-generation GWAS datasets such as the Framingham Heart Study and the Health and Retirement Study that have millions of SNPs and longitudinal phenotype measures
 - Developed programs using Shell, SAS, Stata, and Plink to carry out GWAS analysis requiring 2 billion mixed models using parallel computing on a Linux cluster. Paper currently under review at PLOS ONE.
 - Used advanced programming to automate data management, analysis, and presentation of results to reduce human error and turn-around time in research.
 - Co-authored three publications and presented research findings at 6 professional conferences.
- Research Assistant (2006-2009)*
- Managed and analyzed longitudinal multi-site, multi-cohort datasets including Add Health, NLSY, and PSID.
 - Developed a Stressful Life Events measure for the Add Health data which has been widely cited (Wang et al, 2009) and adopted by other researchers.
 - Co-authored three publications and presented research findings at 8 professional conferences.
- 2003-2006 **UNIVERSITY OF NORTH CAROLINA**, Department of Sociology Chapel Hill, NC
Teaching Fellow
- Instructed undergraduate courses in data analysis and quantitative research methods
 - Developed and delivered curriculum for 30 students per semester

FELLOWSHIPS AND AWARDS

- 2012-2014 William T. Grant Scholars Mentoring Award (with Candice Odgers), Center for Child and Family Policy, Duke University, Durham, North Carolina
- 2006-2007 Spencer Education Science and Policy Fellowship, Center for Child and Family Policy, Duke University, Durham, North Carolina
- 2002-2009 Traineeship, Carolina Population Center, University of North Carolina, Chapel Hill, North Carolina

QUANTITATIVE AND PROGRAMMING SKILLS

Programming Languages and Software

- STATA, SAS, Ruby on Rails (some experience with R, Python, Arc GIS)

Advanced Modelling Skills

- Cluster Analysis, Mixture Model, Data Mining (to study segmentation)
- Mixed Methods, such as Multilevel Models and Growth Curve Models (to model nested relationships and growth trends)
- Data Visualization
- Designing and conducting surveys using mobile apps

REFEREED PUBLICATIONS

Mooney, Margarita, Jason Freeman, Matt Bradshaw, and **Lin Wang**. Forthcoming. "Does Believing or Belonging Have a Greater Protective Effect on Stressful Life Events Among Young Adults?" *Religion and Inequality in America*, edited by Lisa Keister and Darren Sherkat. Cambridge, UK: Cambridge University Press.

Wang, Lin, Glen H. Elder Jr., and Naomi J. Spence. 2012. "Status Configurations, Military Service and Higher Education." *Social Forces* 91(2):397-421.

Elder Jr., Glen H., **Lin Wang**, Naomi J. Spence, Daniel Adkins, and Tyson Brown. 2010. "Pathways to the All-Volunteer Military." *Social Science Quarterly* 91(2):455-475.

Wang, Lin, Daniel Adkins (co-first author), Matt Dupre, Edwin van den Oord, and Glen H. Elder, Jr. 2009. "Structure and Stress: Trajectories of Depressive Symptoms across Adolescence and Young Adulthood." *Social Forces* 88:31-60.

Burdette, Amy M., **Lin Wang**, Glen H. Elder, Jr., Terrence D. Hill, and Janel Benson. 2009. "Serving God and Country? Religious Involvement and Military Service among Young Adult Males." *Journal for the Scientific Study of Religion* 48:794-804.

Adkins, Daniel, **Lin Wang**, Glen H. Elder, Jr., and Matt Dupre. (2008). "Stress Processes and Trajectories of Depressive Symptoms in Early Life: Gendered Pathways." Pp. 107-136 in *Advances in Life Course Research Volume 13 - Stress Process across the Life Course*, edited by Heather A. Turner and Scott Schieman. San Diego, CA: Elsevier Ltd.

PRESENTATIONS AT PROFESSIONAL MEETINGS

Wang, Lin and Glen H. Elder, Jr. 2011. "The Personal Context of Military Enlistment and Higher Education: A Status Configuration Approach." Paper presented at the Annual Meeting of the American Sociological Association, August 22, Las Vegas, NV.

Wang, Lin and Naomi J. Spence. 2011. "Internalizing Versus Externalizing Problems: Influences of Academic Performance, Gender and Coping Resources." Paper presented at the Annual Meeting of the American Sociological Association, August 20, Las Vegas, NV

Wang, Lin and Guang Guo. 2011. "The Impact of Genetic Propensities for Risky Behaviors on Academic Performance." Paper presented at the Spring Meeting of the ISA RC28, April 16, University of Essex, UK.

Wang, Lin and Glen H. Elder, Jr. 2010. "Military Times and PTSD in Young People's Lives: A Perspective from Add Health." Paper presented at the Annual Meeting of the American Sociological Association, August 17, Atlanta, GA.

Wang, Lin. 2010. "Academic Difficulties and Internalizing Versus Externalizing Problems: Who Gets What and Why?" Paper presented at the Biennial Meeting of the Add Health User Conference, July 22, Bethesda, MD.

Wang, Lin. 2010. "Proxies to Post-traumatic Stress Symptoms in Studies of Veterans." Paper presented at the Biennial Meeting of the Add Health User Conference, July 23, Bethesda, MD.

Wang, Lin. 2009. "The Impact of High School Psychological Well Being and Academic Performance Trajectory on College Enrollment." Paper presented at the Annual Meeting of the American Sociological Association, August, San Francisco, CA.

Wang, Lin, Glen H. Elder, Jr., and Naomi J. Spence. 2008. "Bridge to Opportunity: The All Volunteer Force." Presented at the Biennial Meeting of the Add Health User Conference, July, Bethesda, MD.

Wang, Lin, Glen H. Elder, Jr., and Naomi J. Spence. 2008. "Military Service as a Bridge to Opportunity." Paper presented at the Biennial Meeting of the Society for Research on Adolescence, March, Chicago, IL.

Burdette, Amy M., **Lin Wang,** and Glen H. Elder, Jr. 2008. "Serving God and Country? Religious Involvement and Military Enlistment among Young Adults." Paper presented at the Biennial Meeting of the Society for Research on Adolescence, March, Chicago, IL.

Elder Jr., Glen H., **Lin Wang,** Daniel Adkins, Naomi J. Spence, and Tyson H. Brown. 2007. "Determinants of Post-High School Activities: Service in the U.S. Volunteer Armed Forces." Paper presented at the Military Service, Social (Dis)Advantage, and the Life Course Conference, October, Syracuse University, Syracuse, NY.

Wang, Lin, Karolyn Tyson, and William A. Darity Jr. 2007. "Effective Schools, Effective Students." Paper presented at the Annual Meeting of the Spencer Program in Educational Research, April, Brandeis University, Boston, MA.

Wang, Lin, Daniel Adkins, Glen H. Elder, Jr., and Matt Dupre. 2007. "Structure and Stress: Trajectories of Depressive Symptoms across Adolescence and Young Adulthood." Paper presented at the Annual Meeting of the Population Association of America, March, New York City, NY.

Wang, Lin. 2006. "Trajectories of Adolescent Depression and Gender/Racial Disparity." Paper presented at the Annual Meeting of the Population Association of America, April, Los Angeles, CA.

Guo, Guang and **Lin Wang**. 2004. "The Timing of First Sexual Intercourse, Heritability, and Social/Demographic/Contextual Influences." Paper presented at the Annual Meeting of the Population Association of America, April, Boston, MA.

Wang, Lin. 2004. "Romantic Relationships among Immigrant Adolescents." Poster presented at the Annual Meeting of the Population Association of America, April, Boston, MA.

EDUCATION

- 2009 **Ph.D. Sociology**
University of North Carolina, Chapel Hill, North Carolina
Doctoral Exams: Advanced Quantitative Methods and Social Psychology
Dissertation: Co-occurring Academic and Mental Health Problems in High School: a Longitudinal Study
Co-Chairs: Peggy A. Thoits and Glen H. Elder, Jr.
- 2006 **M.A. Sociology**
University of North Carolina, Chapel Hill, North Carolina
Thesis: Trajectories of Adolescent Depression and Gender/Racial Disparity
Chair: Kenneth A. Bollen
- 2001 **B.A. Demography**
Renmin University of China, Beijing, China