

CURRICULUM VITAE

TAMMY C. LEONARD

University of North Texas
Economics Research Group | Economics Department
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Research Concentrations

Urban Economics, Health Economics, Behavioral Economics, Spatial Econometrics

Academic Positions

- 2017-Present **University of North Texas**, Denton, TX
Associate Professor of Economics
Assistant Director, Economics Research Group
- 2012-Present **University of Texas Southwestern Medical School**, Dallas, TX
Adjunct Assistant Professor of Clinical Sciences
- 2014-2017 **The University of Dallas**, Richardson, TX
Economics Department
(2016-2017) Associate Professor & Chair
(2014-2016) Affiliate Assistant Professor
- 2009-2014 **University of Texas at Dallas**, Richardson, TX
Economics Program
(2012-2014) Senior Lecturer & Associate Department Head
(2009-2012) Research Assistant Professor
- 2006–2008 **University of Texas at Dallas**, Richardson, TX
Economics Program
Research Assistant

Private Sector Experience

- Fall 2011 **Federal Reserve Bank of Dallas**, Dallas, TX
Community Development Division
Scholar in Residence
- 2008-2009 **Federal Deposit Insurance Corporation (FDIC)**, Dallas, TX
Division of Insurance and Research
Research Intern
- 2000-2004 **BP**, Texas City, TX
Optimization Engineer
- 2001-2002 **Mount Carmel High School**, Benque Viejo, Belize, C.A.
High School Faculty
- 1999 **Dow Chemical Company Research and Development**, Freeport, TX
Engineering Intern
- 1997 **Minnesota Mining & Manufacturing (3M)**, Brownwood, TX

Engineering Intern

Education

- 2009 **University of Texas at Dallas**, Department of Economics
Ph.D. Economics
- 2007 **University of Texas at Dallas**, Department of Economics
M.S. Economics
- 2001 **Texas A&M University**, College Station, Texas
B.S. Chemical Engineering, Magna Cum Laude

Peer Reviewed Publications

- Higashi, R.T., Lee, S.J.C., **Leonard, T.**, Pezzia, C., Pruitt, S.L. (In Press) Family and Social Context Contributes to the Interplay of Economic Insecurity, Food Insecurity, and Health. *Annals of Anthropological Practice*.
- Zhang, L., **Leonard, T.**, Dias, R. 2017. Foreclosed and Sold: An Examination of Community and Property Characteristics Related to the Sale of REO Properties. *Urban Affairs Review*. 53(5): 924-949.
- Shuval, K., **Leonard, T.**, Drope, J., Katz, D.L., Patel, P., Shepard, M.M., Amir, O., Grinstein, A. 2017. Physical Activity Counseling in Primary Care: Insights from Public Health & Behavioral Economics. *CA: A Cancer Journal for Clinicians*. 67(3): 233-244.
- Leonard, T.**, Jha, N., Zhang, L. 2017. Neighborhood Price Externalities of Foreclosure Rehabilitation: An Examination of the Neighborhood Stabilization Program. *Empirical Economics*. 52(3): 955-975.
- Leonard, T.**, Ayers, C., Das, S., Neeland, I., Powell-Wiley, T.M. 2017. Do Neighborhoods Matter Differently for Movers and Non-Movers?: Analysis of Weight Gain in the Longitudinal Dallas Heart Study. *Health & Place*. 44: 52-60.
- Leonard, T.**, Hughes, A.E., Pruitt, S.L. 2017. Understanding how low-socioeconomic status households cope with health shocks: An analysis of multi-sector linked data. *The Annals of the American Academy of Political and Social Science*. 669(1): 125-145.
- De Oliveira A, **Leonard T.**, Shuval K, Sugg-Skinner C, Eckel C, Murdoch JC. 2016. Economic Preferences and Obesity among a Low-Income African American Community. *Journal of Economic Behavior & Organization*. 131: 196-208.
- Leonard, T.** 2016. Housing Upkeep and Public Good Provision in Residential Neighborhoods. *Housing Policy Debate*. 1-21.
- Leonard, T.**, Powell-Wiley, T.M., Ayers, C. Murdoch, J.C., Yin, Wenyan, Pruitt, S.L.

2016. Property Values as a Measure of Neighborhoods— An Application of Hedonic Price Theory. *Epidemiology*. 27(4): 518-524
- Pruitt SL, **Leonard T**, Xuan L, Amory R, Nguyen OK, Pezzia C, Swales S. 2016. Who is food insecure? Implications for targeted recruitment and outreach. *Preventing Chronic Disease*. 13(160103).
- Zhang L, **Leonard T**, Murdoch JC. 2016. Time and Distance Heterogeneity in the Neighborhood Spillover Effects of Foreclosed Properties. *Housing Studies*. 31(2): 133-148.
- Higashi, R.T., Lee, S.J.C., **Leonard, T.**, Cuate, E.L., Cole, J., Pruitt, S.L. (2015). Multiple co-morbidities and interest in research participation among clients of a nonprofit food distribution site. *Clinical and Translational Science*. 8(5): 584-590.
- Berrigan, D., A. Hipp, P.M. Hurvitz, P. James, M. Jankowska, J. Kerr, F. Laden, **T. Leonard**, R. McKinnon, T.M. Powell-Wiley, E. Tarlov, S.N. Zenk. (2015). Geospatial and Contextual Approaches to Energy Balance and Health. *Annals of GIS*. 21(2): 157-168.
- Leonard, T.**, L. Zhang, C. Hoehner. 2015. Variations in Park Facility Valuations across Neighborhoods. *Applied Spatial Analysis and Policy*. 8(1): 45-67.
- Shuval, Kerem, **T. Leonard**, B.T. Nguyen, T.H. Ngo, A. L. Yaroch. 2015. Behavioral Economics and Fruit and Vegetable Intake: The Fair Park Study. *Health Behavior & Policy Review*. 2(2): 92-99.
- Powell-Wiley, T., R. Cooper-McCann, C. Ayers, D. Berrigan, M. Lian, M. McClurkin, R. Ballard-Barbash, S. Das, C. Hoehner, **T. Leonard**. 2015. Change in Neighborhood Socioeconomic Status and Weight Gain: Dallas Heart Study. *American Journal of Preventive Medicine*. 49(1): 72-79.
- Shuval, K., Si, X, Nguyen, B., **Leonard, T.** 2015. Utilizing Behavioral Economics to Understand Adherence to Physical Activity Guidelines among a Low-Income Urban Community. *Journal of Physical Activity and Health* 12: 947-953.
- Pruitt, S.L., **Leonard, T.**, Murdoch, J., Hughes, A., McQueen, A., Gupta, S. 2014. Neighborhood effects in a behavioral randomized controlled trial. *Health and Place*. 30:293-300.
- Zhang, L., **T. Leonard**. 2014. Neighborhood Impact of Foreclosure: A Quantile Regression Approach. *Journal of Regional Science and Urban Economics*. 48, 133-143.

- Leonard, T.,** C. McKillop, J. Carson, K. Shuval. 2014. Neighborhood Effects on Food Consumption. *Journal of Behavioral and Experimental Economics*. 51, 99-113
- Leonard, T.,** Di, Wenhua. 2014. Is Household Wealth Sustainable? An Examination of Asset Poverty Reentry After an Exit. *Journal of Family and Economic Issues*. 35:2, 131-144.
- Powell-Wiley, T.M., C. Ayers, P. Agyemang, **T. Leonard**, D. Berrigan, R.B. Barbash, M.Lian, S.R. Das, Hoehner, C.M. 2014. Neighborhood-Level Socioeconomic Deprivation Predicts Weight Gain in a Multi-Ethnic Population: Longitudinal Data from the Dallas Heart Study. *Preventive Medicine*. 66:22-27.
- Pruitt, S.L., **Leonard, T.**, Zhang, S., Schootman, M., Halm, E.A., Gupta, S. 2014. Physicians, Clinics, and Neighborhoods: Multiple Levels of Influence on Colorectal Cancer Screening. *Cancer Epidemiology Biomarkers and Prevention*. 23(7): 1346-1355.
- Caughy, Margaret O., **Leonard, T.**, Beron, K., Murdoch, J. 2013. Defining Neighborhood Boundaries in Studies of Spatial Dependence in Child Behavior Problems. *International Journal of Health Geographics*. 12:24. <http://www.ij-healthgeographics.com/content/12/1/24>.
- Leonard, T.** 2013. The Impact of Housing Market Conditions on Residential Property Upkeep. *Housing Studies*. 28:1, 33-56.
- Shuval, K., Hebert, E., Siddiqi, Z., **Leonard, T.**, Craddock, S., Tiro, J., McAllister, K., Skinner, C.S. 2013. Impediments and Facilitators to Physical Activity and Perceptions of Sedentary Behavior among Urban Community Residents: The Fair Park Study. *Preventing Chronic Disease*. 10.
- Shuval, K., Gabriel, K., **Leonard, T.** 2013. TV Viewing and BMI by Race/Ethnicity and Socio-Economic Status. *PLoS ONE* 8(5): e63579. doi:10.1371/journal.pone.0063579
- Leonard, T.,** K. Shuval, A. De Oliveira, C. Skinner, C. Eckel, J. Murdoch. 2013. Health Behavior and Behavioral Economics: Economic Preferences and Physical Activity Stages of Change in a Low-Income African American Community. *American Journal Of Health Promotion*, 27:4, 211-221.
- Shuval, K., **Leonard, T.**, Skinner, C., Caughy, M., Kohl, H., Murdoch, J. 2013. Sedentary Behaviors And Obesity Among A Low Income, Ethnic Minority Population. *Journal of Physical Activity and Health*. 10:1, 132-136.
- Leonard T.,** Caughy M.O., Mays K., Murdoch J.C. 2011. Systematic neighborhood observations at high spatial resolution: Methodology and assessment of potential

benefits. PLoS ONE 6(6): e20225. doi:10.1371/journal.pone.0020225.

Leonard, T., R. Croson and A. deOliveira. 2010. Social Capital and Public Goods. *Journal of Socio-Economics*. 39: 474-481.

Leonard, T., J.C. Murdoch. 2009. The neighborhood effects of foreclosure. *Journal of Geographical Systems* 11.4 (2009): 317-332.

Book Chapters and Other Articles

Leonard, T., K. Shuval. Behavioral Economic Tools for Promotion of Physical Activity. In *Behavioral Economics and Health Behaviors—Key Concepts and Current Research*. Edited by Hannoeh, Y., T. Rice, and A. Barnes. Taylor & Francis, 2017.

Di, Wenhua, **T. Leonard,** E. Ryder. Pathway to Financial Advancement: A Case Study. 2012. *Banking and Community Perspectives*. 2012(2).

Papers Under Review

- Flood Hazards Impact on Neighborhood House Prices (with Lei Zhang)
- Do traditional economic theories of free riding behavior explain spatial clustering of HPV vaccine uptake? (with Caitlin McKillop, Sandi Pruitt, and Jasmine Tiro)
- The Association between Noncognitive Factors, Neighborhood Crime and Health Status in a Low-Income Minority Population (with Caitlin McKillop)
- Persistence of High School Peer Association: the Impact of Adolescent Friendships on Substance Abuse (with Caitlin McKillop and Hannah McKillop)
- Spatial distribution of diabetes prevalence and food costs in the United States: Target areas for intervention (with Amy E. Hughes, Michael E. Bowen and Sandi L Pruitt)
- Food Security and Poor Health: Predicting Spatial Cluster Overlaps (with Amy E. Hughes, Connor Donegan, Alejandro Santillan, & Sandi L. Pruitt)

Working Papers

- Investigating the Compensation Effect of Private Nutrition Assistance Program (with Xia Si)
- Network Expansion and Utilization of Private Nutrition Assistance (with Xia Si)
- The Effect of Macroeconomic Downturn on Birth Outcomes (with Victoria Obiadazie)
- Preferences for Educated Neighbors: Determinants of preference heterogeneity across U.S. housing markets (with Lei Zhang)
- Developing and Sustaining a Community-academic Partnership to Monitor the Health of the Food Insecure (with Sandi Pruitt)

Projects in Progress

- Estimation of intervention effects in the presence of spatially correlated externalities: An examination of the Neighborhood Stabilization Project (with Lei Zhang and Nikhil Jha)
- An investigation of neighborhood characteristics valued in housing markets and their relationship to health (with Sandi Pruitt, Tiffany Powell-Wiley, and Colby Ayers)
- Heterogeneity in Valuations of School Quality: An Application of Quantile Regression (with Lei Zhang and Robert Hearne)
- Spatial Heterogeneity in the Capitalization of Light Rail into Home Prices (with Margie Tieslau, Michael Carroll, Matt Sorenson, & Connor Reed)
- Variation in the Impact of Land Use Regulation on Home Prices (with Lei Zhang & Xi Yang)
- Health Impacts of a Decentralized Charitable Food Distribution Model (with Sandi Pruitt & David Andrews)

Conference Presentations & Published Abstracts

- North American Regional Science Conference. 2017. “Examination of Dual Spatial Clusters of Health and Food Insecurity Measures: A County-level Analysis.”
- Interdisciplinary Association for Population Health Science (IPAHS) annual meeting. 2017. Austin, TX. Poster Presentation: “Ripple Effects: do the details of food assistance delivery impact individual health?”
- Southern Regional Science Association annual meeting. 2017. “Flood Hazards Impact on Neighborhood House Prices”
- National Science Foundation Conference on New Data Linkages. 2016. “Effect of Health Shocks on Resource Acquisition for Food Insecure Households: a social observatory analysis”
- Geospatial Approaches to Cancer Control and Population Sciences, National Institutes of Health. 2016. “Do Neighborhoods Matter Differently for Movers and Non-Movers?”
- Intent vs Impact, Evaluating Individual- and Community-Based Programs, Dallas Federal Reserve Bank. 2015. “Neighborhood Price Externalities of Foreclosure Rehabilitation”.
- North American Regional Science Conference. 2014. “Heterogeneous Impacts of the US Financial Crisis on Household Finances.” And “Neighborhood Effects in a Behavioral RCT”.
- North American Regional Science Conference. 2013. “Public Good Provision in Residential Neighborhoods”
- North American Regional Science Conference. 2012. “Variation in Park Amenity Valuations across Neighborhoods”
- North American Regional Science Conference. 2011. “Variation in Park Amenity Valuations across Neighborhoods Preliminary Work”

- Active Living Research. 2011. Poster Presentation: “Economic Impact of Built Environment Amenities for Child Physical Activity”
- Southern Economic Association. 2009. “Social Capital and Public Goods”
- Southern Economic Association. 2009. “Home Appreciation, Default Risk and Neighborhood Upkeep”
- Southern Regional Science Association. 2009. “The Neighborhood Effects of Foreclosure”
- American Real Estate and Urban Economics Association Mid-Year Meeting. 2008. “The Neighborhood Effects of Foreclosure”

Invited Presentations

- Advancing Our Insights on the Implications of Food Insecurity in Communities. 2017. “Food Security and Poor Health: Predicting Spatial Cluster Overlaps”
- Gentrification Policy Roundtable. 2017. “The Reciprocal Relationship between People and Place in an Urban Context: Implications for Gentrification”
- Economics Seminar Series at North Dakota State University. 2016. “An Appraisal-based Measure of Neighborhood Condition—An examination of bias and potential utility”
- Geopolitics and Oil Prices Policy Forum Panel Discussion. 2015. University of Dallas Alexander Hamilton Society.
- Hungry for Change Summit, Fort Worth, TX. 2015. “Financial Decision Making and 12 Behavioral Change”
- Together at the Table: Hunger and Poverty Summit, Baylor University. 2015. “Community Assistance Research”.
- CitySquare Leadership Meeting. 2015. “Neighborhoods and Behavior Choices”
- Tarrant County Homeless Coalition. 2016. “Financial Decision Making”
- Tarrant County United Way. 2016. “Rethinking Financial Decisions”
- Tarrant County United Way. 2016. “Financial Decision Making and Behavioral Change”
- American Cancer Society. 2013. “Geographic and Social Influences on Health Behaviors—Evidence and Significance for Randomized Controlled Trials
- Federal Reserve Bank of Dallas Policy Forum. 2012. Moderator: Neighbors, Community and Well-being—Evidence from a Local Neighborhood
- Corporation for Enterprise Development (CFED) Assets Learning Conference. 2012. “Is Household Wealth Sustainable? An Examination of Asset Poverty Reentry after an Exit
- Sisterbration Regional Obesity Summit. 2012. “Evaluating Built Environment Amenities from an Economic Perspective”
- MacArthur Foundation How Housing Matters Research Network. 2011. “Dallas Neighborhoods and Housing Markets”

Research Grant Participation

Robert Wood Johnson Foundation (4/1/2016-9/1/2019)

A Multisector Solution to Build a Culture of Health among Food Insecure Populations in Dallas County

We will evaluate health, economic, and program participation effects of a new decentralized model of charitable food delivery using spatial difference-in-difference analysis treating program implementation as a natural experiment.

Role: Co-PI

Feeding America (10/1/2016-12/31/2017)

Ranking the Association between Food Insecurity and Indicators of Population Health: Exploring Heterogeneity by Counties and States

We examined rank correlations between the Robert Wood Johnson County Health Indicators and Feeding America's Meal Gap statistics in order to better assess health correlates of food insecurity.

Role: Co-PI

Community Based Research Pilot Awards (7/1/2013-6/31/2015)

The Fair Park Cancer Prevention Pilot Study: A Community-Academic Partnership

We will invest in further development of the North Texas Food Bank Longitudinal Client database and assess the validity of neighborhood measures developed from the database.

Role: Co-PI

UTSW Clinical and Translational Science Award (U54) (06/01/2012-05/31/2013)

I served as geo-spatial consultant for the community engagement key function. My role is to provide spatial analysis and spatial data expertise for the development and conduct of research projects.

Role: Senior Personnel

Robert Wood Johnson Foundation (01/15/2011 – 01/15/2013)

Economic Evaluation of Built Environment Amenities for Youth Physical Activity

Conduct quantile hedonic price estimation of built environment features that encourage child physical activity and the moderating role of the transportation network on the hedonic price.

Role: PI

National Science Foundation: Social, Behavioral & Economic Sciences (09/01/2009-08/2011)

The Impact of Stimulus Spending on Energy Efficiency in a Low-Income Dallas Neighborhood: Implications for Science Policy

The goal of this project was to measure changes in household energy consumption behavior as a result of weatherization

Role: Project Field Manager

National Science Foundation: Social & Economic Sciences (10/2008-10/2011)

Publicly Driven Investment, Neighborhood Change, and Household Behavior

The goal of this project is to analyze the impact of public housing and transportation investment on child development and academic achievement.

Role: Project Manager

Consulting

Dallas Women's Foundation (4/1/2013-Present)

Evaluation of Economic Security Initiative Grants for 18-34 and 55+ Cohorts

Evaluation for Dallas Women's Foundation economic security grants.

2M Research (2015)

Federal program evaluation.

National Institutes of Health (7/24/2012-1/31/2012)

Environmental Influences on Cardiovascular Health in the Dallas Heart Study—Housing Appraisal Values

North Texas Food Bank (7/1/2011 – 7/31/2012)

Assist NTFB in developing a regional research center (the Hunger Center) to better understand food insecurity and the behaviors of low-income families.

Dissertation

"Neighborhood Public Goods - Provision and Impact"; Professor: James C. Murdoch.

Honors and Awards

Texas Hunger Initiative Research Fellow, 2017

Interdisciplinary Association for Population Health Science, Best Poster Award, 2017

School of Economic Political and Policy Sciences Outstanding Teacher Award, 2014

Provost's Award-- Excellence in Undergraduate Research Mentoring (Nominee), 2014

NSF Young Researcher at the Nobel Laureates Meeting in Lindau Germany, 2008

National Association of Business Economists Seminar Scholarship, 2008.

National Merit Scholarship, 1997-2001

Texas A&M President's Endowed Scholar, 1997-2001

Chemical Engineering Department Outstanding Student Award, 2001

Undergraduate Independent Research Top Paper Award, 2001

American Institute of Chemical Engineers Regional Paper Award, 2001

Chemical Engineering Department Scholarship Award, 2000-2001

American Institute of Chemical Engineers National Scholar Award, 2000-2001

Dow Outstanding Chemical Engineering Junior Award, 1999

Courses Taught

Advanced Econometrics, Undergraduate

Applied Macroeconomics, Graduate

Econometrics, Graduate and Undergraduate

Economics of Health Care, Undergraduate and Graduate

Experimental Economics, Undergraduate
Fundamentals of Economics, Undergraduate
Industrial Organization, Undergraduate
Intermediate Microeconomics, Undergraduate
Mathematical Economics, Undergraduate
Statistical Methods, Undergraduate

Service

Crossroads Community Services, Board of Directors, 2014-Current

Journal Reviewer

American Journal of Public Health; Empirical Economics; Food Policy; Housing Policy Debate; Housing Studies; Journal of Economic Behavior and Organization; Journal of Socio-Economics; Journal of Urban Affairs; Public Finance Review; Sociological Perspectives; The Annals of Regional Science; Urban Affairs

Grant Reviewer

National Science Foundation
Center for Transportation, Equity, Decisions and Dollars (C-TEDD)

Book Reviewer

Designing Experiments for the Social Sciences, Sage Publishing, Inc.

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