

CURRICULUM VITAE

TAMMY C. LEONARD



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Contact Information

Economics Research Group

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Research Concentrations

Urban Economics, Health Economics, Behavioral Economics, Spatial Econometrics

Current Academic Positions

Associate Director, Economics Research Group, University of North Texas, Denton, Texas 76203. August 2017 to present.

Associate Professor of Economics, Department of Economics, University of North Texas, Denton, Texas 76203. August 2017 to present.

Adjunct Assistant Professor of Clinical Sciences, University of Texas Southwestern Medical School. 2012 to Present

Private Sector Experience:

Scholar in Residence, Federal Reserve Bank of Dallas, Dallas, Texas. Community Development Division. Fall 2011.

Research Assistant, Intern, FDIC, Dallas, Texas. Division of Insurance and Research. 2008 to 2009

Optimization Engineer, BP, Texas City, Texas. 2000 to 2004

Engineering Intern, Dow Chemical Company Research and Development, Freeport, Texas. 1999

Engineering Intern, 3M, Brownwood, Texas. 1997.

Education

University of Texas at Dallas (Economics)	Ph.D.	2009
University of Texas at Dallas (Economics)	M.S.	2007
Texas A&M University (Chemical Engineering)	B.S.	2001

Peer Review 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, Wenyuan, 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 comorbidities 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 Hanoach, 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)

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)

Food Security and Poor Health: Predicting spatial cluster overlaps (with Amy Hughes, Connor Donegan, Alejandro Santillan, and Sandi Pruitt)

Spatial Distribution of Housing and Health Concerns in the US: Patterns and Correlates (with Amy Hughes and Sandi Pruitt)

Developing and Sustaining a Community-academic Partnership to Monitor the Health of the Food Insecure (with Sandi Pruitt)

Ripple Effects: Do the details of food assistance delivery impact individual health? (with David Andrews, Carla Pezzia, Lisa Quirk and 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)

Dynamics of Household Food Insecurity (with Michael Dinh, Sandi Pruitt, and David Andrews)

Housing Mobility, Neighborhood Dynamics and Food Insecurity (with Sandi Pruitt, Amy Hughes, and David Andrews)

Heterogeneity in Valuations of School Quality: An Application of Quantile Regression (with Lei Zhang and Robert Hearne)

Conference Presentations & Published Abstracts:

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”

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:

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

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 will examine 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

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 de-centralized model of charitable food delivery using spatial difference-in-difference analysis treating program implementation as a natural experiment.

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 Institutional CTSA Award (U54) (06/01/2012-05/31/2013)

I serve 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

RWJ Grant #68501 (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

NSF/SBE 0943449 (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

NSF/SES-0827350 (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.

NIH (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 for Faculty Excellence in Undergraduate Research Mentoring, 2014 Nominee
NSF Sponsored 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

Applied Macroeconomics, Graduate
Econometrics, Graduate and Undergraduate
Advanced Econometrics, Undergraduate

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

Service

Crossroads Community Services, Board of Directors, 2014-Current

Journal Reviewer

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

Grant Reviewer

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

Book Reviewer

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

Reprints and Other Writing Samples Available Upon Request