

Tan Li

CONTACT INFORMATION Department of Biostatistics
Florida International University
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MAJOR RESEARCH AREA Ordinal data analysis, multilevel mixture models, psychometrics, longitudinal study.

RESEARCH INTEREST Dimensionality assessment of latent variables for both binary and ordinal data, heterogeneity modeling in multilevel mixture models, logistic model fitting with multidimensional latent variables, logic regression modeling for repeated measurements.

EDUCATION **University of South Carolina**, Columbia, South Carolina
Ph.D., Statistics, 2011
M.S., Statistics, 2010
Shandong University, Jinan, China
B.S., Chemistry, 2003

ACADEMIC EXPERIENCE **Department of Biostatistics, Florida International University**, Miami, Florida
Assistant Professor **2013 - present**
Visiting Assistant Professor **2012 - 2013**
Integrated Biostatistics and Data Management Center, FIU, Miami, Florida
Deputy Director **2013 - present**
Department of Psychology, University of South Carolina, Columbia, South Carolina
Research Assistant **2010 - 2011**
Statistical Consulting Laboratory, University of South Carolina, Columbia, South Carolina
Research Assistant **2007 - 2009**
Department of Statistics, University of South Carolina, Columbia, South Carolina
Teaching Assistant **08/2006 - 05/2007, 01/2008 - 05/2008**

PEER-REVIEWED
JOURNAL
PUBLICATIONS

- [1] Rojas, P., **Li, T.**, Ravelo, G., Dawson, C., Sanchez, M., Wang, W., Sneij, A., Cyrus, E., Kanamori, M., & De La Rosa, M. (Accepted). Correlates of Cervical Cancer Screening Among a Non-clinical Community Based Sample of Adult Latino Women: A Five Year Follow Up. *World Medical & Health Policy*.
- [2] **Li, T.**, Habing, B., & Roussos, L. (2017). Conditional Covariance-Based Subtest Selection for Polytomous DIMTEST. *Applied Psychological Measurement*, Vol 41, Issue 3, pp. 209 - 226.
- [3] Zhang, C., Lin, S., **Li, T.**, Jiang, Y., Huang, Z., Wen, J., Cheng, W., & Li, H. (2017). Mechanical force-Mediated Pathological Cartilage Thinning is Regulated by Necroptosis and apoptosis. *Osteoarthritis and Cartilage*. DOI: <http://dx.doi.org/10.1016/j.joca.2017.03.018>
- [4] Montalvo, A.M., Shaefer, H., Rodriguez, B., **Li, T.**, Epnere, K., & Myer, G.D. (2017). Retrospective Injury Epidemiology and Risk Factors for Injury in Cross-Fit. *Journal of Sports Science and Medicine*, (16), 53 - 59.
- [5] Victor-Pierre, D., Page, T. F., Trepka, M. J., Stephens, D., **Li, T.**, & Madhivanan, P. (2017). Impact of Virginia's HPV Vaccine Mandate on HPV Vaccination among 13 - 17 Year-Old Females. *Journal of Women's Health*, 26(3): 266-275. doi:10.1089/jwh.2016.5869.
- [6] Victor-Pierre, D., Trepka, M. J., Page, T. F., **Li, T.**, Stephens, D., & Madhivanan, P. (2017). Impact of Louisiana's HPV Vaccination Policy on HPV Vaccination among 13 - 17 Year Old Females. *Health Education & Behavior*, doi: 10.1177/1090198116684766. [Epub ahead of print]
- [7] Sanchez, M., Romano, E., Dawson, C., Martinez, M., **Li, T.**, Cyrus, E., & De La Rosa, M. Cultural Correlates of DUI Risk Perceptions Among Documented and Undocumented Recent Latino Immigrants in South Florida. *Hispanic Journal of Behavioral Sciences*, 39(2), 211-237.
- [8] Burke, S.L., O'Driscoll, J., Alcide, A., & **Li, T.** (2016). Moderating risk of Alzheimer's disease through the use of anxiolytic agents. *International Journal of Geriatric Psychiatry*. DOI: 10.1002/gps.4614
- [9] Lopez, J., Campa, A., Huffman, F.G., Liuzzi, J.P., **Li, T.**, et al. (2016). Correlates of Vitamin D Deficiency in South Florida Older Adults. *International Journal of Endocrinology and Metabolic Disorders*.// <http://dx.doi.org/10.16966/2380-548X.127>
- [10] Lopez, J., Campa, A., Lewis, J.E., Huffman, F.G., Liuzzi, J.P., **Li, T.**, Martinez, A.H., Ferris, S.M., Rasul, A., Farooqi, A., Lopez Medrano, A.M., Atlas, S.E., Tiozzo, E., Konefal, J., & Woolger, J.M. (2016). Assessing the Relationship between Vitamin D Status and Impairments in Cognitive and Physical Performance in Older Adults Using a Dual Task Physical Performance Test. *The Journal of Prevention of Alzheimer's Disease (JPAD)*. <http://dx.doi.org/10.14283/jpad.2016.114>

- [11] Rojas, P., Huang, H., **Li, T.**, Ravelo, G. J., Sanchez, M., Dawson, C., Brook, J., Kanamori, M., & De La Rosa, M. (2016). Sociocultural Determinants of Risky Sexual Behaviors among Adult Latinas: A Longitudinal Study of a Community-Based Sample. *International Journal of Environmental Research and Public Health*, 13(11), 1164. <http://doi.org/10.3390/ijerph13111164>
- [12] Sanchez, M., Rojas, P., **Li, T.**, Ravelo, G., Cyrus, E., Wang, W., Kanamori, M., Peragallo, N., and De La Rosa, M. (2016). Evaluating a Culturally Tailored HIV Risk Reduction Intervention among Recent Latina Immigrants. *World Medical & Health Policy*, 8: 245-262. doi:10.1002/wmh3.193.
- [13] Rathod, S., **Li, T.**, Klausner, J., Reingold, A., & Madhivanan, P. (2015) Diagnostic accuracy of logic regression-derived algorithms for syndromic diagnosis of vaginal infections in India. *BMC Medical Informatics and Decision Making* (2015)15:106. DOI: 10.1186/s12911-015-0228-5
- [14] Waxmonsky, J. G., Waschbusch, D. A., Belin, P., **Li, T.**, Babocsai, L., Humphrey, H., Pariseau, M.E., Babinski, D.E., Hoffman, M.T., Haak, J.L., & Mazzant, J. A. (2015). A Randomized Clinical Trial of an Integrative Group Therapy for Children With Severe Mood Dysregulation. *Journal of the American Academy of Child & Adolescent Psychiatry*. DOI:10.1016/j.jaac.2015.12.011.
- [15] Ibanez, G.E., Dillon, F., Sanchez, M., De La Rosa, M., **Li, T.**, & Villar, M.E. (2015). Changes in Family Cohesion and Acculturative Stress among Recent Latino Immigrants. *Journal of Ethnic & Cultural Diversity in Social Work*, 24(3), 219-234. DOI:10.1080/15313204.2014.991979
- [16] Cheema, A. K., **Li, T.**, Liuzzi, J. P., Zarini, G. G., Dorak, M., & Huffman, F. G. (2015). Genetic associations of PPARGC1A with type 2 diabetes; differences among populations with African origins. *Journal of Diabetes Research*, vol. 2015, Article ID 921274, 10 pages, 2015. DOI:10.1155/2015/921274
- [17] Rojas, P., Hui, H., **Li, T.**, Sanchez, M., Dillon, F. , & De La Rosa, M. (2015). Alcohol and Other determinants of Non-medical Use of Prescription Medications among Latinas: A Six Year Follow-up. *Jacobs Journal of Addiction and Therapy*, 2015, 2(2), 016. DOI: 10.13140/RG.2.1.4498.7041
- [18] Cheema, A. K., **Li, T.**, Liuzzi, J. P., Zarini, G. G., & Huffman, F. G. (2015). Peroxisome Proliferator-Activated Receptor Gamma Coactivator-1 Alpha (PPARGC1A) Polymorphism Linked With Microalbuminuria in Hypertensive Haitian Americans with Type 2 Diabetes. *International Journal of Health Sciences & Research (IJHSR)*, 5 (2), 295-303.
- [19] Blackson, T., De La Rosa, M., Sanchez, M., & **Li, T.** (2015). Latino Immigrants' Biological Parents' Histories of Substance Use Problems in Their Country of Origin Predict Their Pre- and Post-Immigration Alcohol Use Problems. *Substance Abuse*, 36(3), 257-263. DOI:10.1080/08897077.2014.932886.
- [20] Cyrus, E., Trepka, M.J., Kanamori, M., Gollub, E. L., Fennie, K., **Li, T.**, Albatineh, A., & De La Rosa, M. (2015). Post-immigration Changes in Social Capital and Substance Use Among Recent Latino Immigrants in South

Florida: Differences by Documentation Status. *Journal of Immigrant and Minority Health*. DOI: 10.1007/s10903-015-0191-3

- [21] De La Rosa, M., Huang, H., Patria, R., Dillon, F., Lopez-Quintero, C., **Li, T.**, & Ravelo, G. (2015). Influence of Mother-Daughter Attachment on Substance use: A Longitudinal Study of a Latina Community Based Sample. *Journal of Studies on Alcohol and Drugs*, 76(2): 307-16.
- [22] Mukherjee, S., Madhivanan, P., **Li, T.**, Albatineh, A., Srinivas, V., Jaykrishna, P., Arun, A., & Krupp, K. (2014). Correlates of completing routine vaccination among children in Mysore, India. *Journal of Infection and Public Health*. DOI: 10.1016/j.jiph.(2014).05.003.
- [23] Sanchez, M., De La Rosa, M, Blakcon, T., Sastre, F., Rojas, P., **Li, T.**, & Dillon, F. (2014). Pre- to post-immigration alcohol use trajectories among recent Latino immigrants. *Psychology of Addictive Behaviors*, Vol 28(4), 990-999. DOI: 10.1037/a0037807.
- [24] Madhivanan, P., **Li, T.**, Srinivas, V., Marlow, L., Mukherjee, S., & Krupp, K. (2014). Human Papillomavirus Vaccine Acceptability among Parents of Adolescent Girls: Obstacles & Challenges in Mysore, India. *Preventive Medicine*. DOI:10.1016/j.ypmed.(2014).04.002.
- [25] Madhivanan, P., Krupp, K., **Li, T.**, Ravi, K., Selezneva, J., Srinivas, V., Arun, A., & Klausner, J. (2014). Performance of BVBlue Rapid Test in Detecting Bacterial Vaginosis among Women in Mysore, India. *Infectious Diseases in Obstetrics & Gynecology*, Volume (2014), Article ID 908313, 7 pages.
- [26] Madhivanan, P., **Li, T.**, Desai, C., Ravi, K., Trammell, S., Srinivas, V., Arun, A., Klausner, J., & Krupp, K. (2013). Performance of the OSOM Trichomonas Rapid Test for diagnosis of Trichomonas vaginalis infection among women in Mysore, India. *Sexual Health*,10(4), 320-324.
- SUBMITTED
JOURNAL
PUBLICATIONS
- [27] Fava, N. M., **Li, T.** , Burke, S. L., Wagner, E. F. Resilience in the context of fragility: Development of a multidimensional measure of child wellbeing within the Fragile Families Dataset. Submitted to Children and Youth Services Review.
- [28] Burke, S. L., Bresnahan, T., **Li, T.** , Epnere, K., Rizzo, A., Partin, M., & Trimmer, M. Using Virtual Interactive Training Agents (VITA) with Adults with Disabilities. Submitted to Journal of Autism and Developmental Disabilities.
- [29] Victor-Pierre, D., Trepka, M. J., Stephens, D., **Li, T.** , Page, T. F., Madhivanan, P. Human Papillomavirus Infections in the American South and Other United States Regions. Submitted to Journal of Health Disparities Research and Practice.
- [30] Saxena, A., Rubens, M., Ramamoorthy, V., Rana, S., **Li, T.** , Veledar, E., Beck-Sague, C. M. Prescription Drug Use Trends among Pediatric US Population from 1999-2012. Submitted to Pediatric Drugs.

- [31] Sanchez, M., Ravelo, G. J., Cyrus Cameron, E. A., Dawson, C., Cano, M. A., Martinez, M., Romano, E., Rojas, P., **Li, T.**, De La Rosa, M. R. Trajectories of pre- to post-immigration religious social capital and its impact on drinking and driving risk behaviors of recent Latino immigrants. Submitted to Journal of Religion and Health.
- CONFERENCE PRESENTATIONS
- [32] **Li, T.** (April 2017) Conditional Covariance-Based Subtest Selection for Polytomous DIMTEST. Invited 45 minutes talk on Conference in Statistical Methods and Mentoring, FIU, Miami, FL.
- [33] Rojas, P., **Li, T.**, Wang, W., Ravelo, G. J., Sanchez, M., Dawson, C., Kanamori, M., Sneij, A., & De La Rosa, M. R. (2016). Sociocultural Determinants of HIV Risky Sexual Behavior among Adult Latinas: A Longitudinal Study of a Community Based Sample. Presented at the 3rd International Sociological Association Forum of Sociology, Vienna, Austria.
- [34] Rojas, P., Wang, W., **Li, T.**, De La Rosa, M. R., & Sanchez, M. (2016). Social and cultural correlates of sexual risk behavior trajectories among drug using Latina Immigrants. Presented at the 2016 International Sociological Association Forum, The Futures We Want: Global Sociology and the Struggles for a Better World, Vienna, Austria.
- [35] **Li, T.**, & Wu, W. (2015). Model Assessment and Comparison on Longitudinal Correlated Data Analysis. Paper presented at the 2015 Joint Statistical Meetings, Seattle, WA.
- [36] Wu, W., & **Li, T.** (2015). Logic Regression with Correlated Data. Paper presented at the 2015 Joint Statistical Meetings, Seattle, WA.
- [37] **Li, T.** (2014). Dimensionality Assessment for Polytomous Item Instrument. Paper presented at the 2014 Joint Statistical Meetings, Boston, MA.
- [38] Wu, W., & **Li, T.** (2014). Bayes Multiple Classification Function in Logic Regression Models. The 2014 Eastern North American Region of the International Biometric Society Spring Meeting (ENAR), Baltimore, MD.
- [39] Campa, A., Martinez, S., Sherman, K., Li, Y., **Li, T.**, Greer, P., Murillo, J., Stewart, T., Fleetwood, C., Ramamoorthy, V., Alvarado, G., Sneji, A., Seminario, L., Charlesworth, A., & Baum, M. (2014). Heavy Alcohol Use is Associated with Hepatocyte Apoptosis in the Miami Adult Studies in HIV (MASH) Cohort. Abstract accepted & will be presented at 20th International AIDS Conference, Melbourne, Australia.
- [40] Krupp, K., Srinivas, V., Marlow, L., **Li, T.**, Albatineh, A., Gowda, S., Arun, A., Jaykrishna, P., & Madhivanan, P. (2013). O19. 4 Acceptability of HPV Vaccination Among Parents of Adolescent School Going Girls in Mysore City, India. *Sexually Transmitted Infections*, Volume 89, A63-A64.
- [41] Madhivanan, P., **Li, T.**, Albatineh, A., Mukherjee, S., Srinivas, V., Arun, A., & Krupp, K. (2013). Factors Associated with Parental Acceptability of Human Papillomavirus Vaccination in South India. *American Journal of Epidemiology*, Volume 177, S4-S4.

- [42] Martinez, I., Albatineh, A., & **Li, T.** (2013). Biocultural Approach to Unraveling the Heterogeneity of Hispanic Origin Older Adults in Florida. Seventh Annual Interprofessional Geriatrics Training Institute: "Socio-Medical Issues in Aging". Miami, FL.
- [43] **Li, T.**, George, M., & Van Horn, L. (2012). Identifying Heterogeneity with Multi-level Regression Models & Multilevel Regression Mixture Models. Society for Child Development's Developmental Methodology Meeting (SRCD), Tampa.
- [44] **Li, T.**, Habing, B., & Roussos, L. (2011). Improved Conditional Covariance-Based Subtest Selection for Polytomous DIMTEST. Annual Meeting of the American Educational Research Association (AERA), New Orleans.
- [45] **Li, T.**, & Habing, B. (2011). The Influence of the Variable Compensation IRT Model on Conditional Covariances. Annual Meeting of the National Council on Measurement in Education (AERA), New Orleans.
- [46] **Li, T.**, Habing, B., & Roussos, L. (2010). Conditional Covariance-Based Subtest Selection for Polytomous DIMTEST. Annual Meeting of the National Council on Measurement in Education (NCME), Denver.
- CONFERENCE POSTERS
- [47] Rojas, P., Wang, W., Ravelo, G. J., & **Li, T.** (2014). Correlates of Health Behaviors Among Adult Latina Mothers & Daughters. (2014) Latina Researchers Network Conference: Increasing the Pipeline for Future Scholars. New York City, NY.
- [48] Cyrus, E., Trepka, M. J., **Li, T.**, De La Rosa, M., Gollub, E., Fennie, K. P., & Rojas, P. (2013). Substance Use & Social Capital among Recent Latino Immigrants in South Florida; Poster Session: Social & Behavioral Epidemiology. 141st American Public Health Association Conference, Think Global, Act Local: Best Practices around the World. Boston, MA.
- [49] Ross, J. M., Pelham, W. E., Molina, B., Gnagy, E., **Li, T.**, & Waschbusch, D. (2013). Trajectories of Risky Sexual Behavior from Adolescence to Adulthood: The Role of ADHD. 47th Annual Convention of Association for Behavioral and Cognitive Therapies, Nashville, TN.
- [50] Waxmonsky, J., Humphery, H., Monroy, K., Marshall, R., Campa, A., Babocsai, L., **Li, T.**, Williams, O.D., & Pelham, W. (2013). The Impact of Extended-Release Stimulant Medication on the Growth Trajectories of Children with ADHD. AACAP's 60th Annual Meeting, Orlando, FL.
- [51] **Li, T.**, & Wu, W. (2013). Logic Regression Modeling with Repeated measurement Data & Its Applications on Syndromic Diagnosis of Vaginal Infections in India. The (2013) Eastern North American Region of the International Biometric Society Spring Meeting (ENAR), Orlando, FL.
- [52] Sanchez, M., De La Rosa, M., **Li, T.**, Rojas, M., & Sastre, M. (2013). Pre- & Post-Immigration Alcohol Use Among Recent Latino Immigrants. Xavier University College of Pharmacy Sixth Annual Health Disparities Conference, New Orleans, LA.

- [53] Rojas, P., Sanchez, M., **Li, T.**, Cyrus, E., & De La Rosa, M. (2013). Determinants of Non-Prescription Sedative Use Among Latina Women. Xavier University College of Pharmacy Sixth Annual Health Disparities Conference, New Orleans, LA.
- [54] Ravelo, G. J., Rojas, P., **Li, T.**, Sanchez, M., Dillon, F. R., & De La Rosa, M. (2013). Provider Interaction & HIV Screening among Middle Age & Older Latinas. New England Science Symposium, Harvard Medical School, Boston, MA.

GRANTS

Ongoing Research

- [1] Co-Investigator, "Alcohol Use Trajectories of Latino Immigrants during their First Decade in the US", (PI: Mario De la Rosa), NIH, 1R01AA024127-01A1, 2016-2020.
- [2] Co-Investigator, "The effectiveness of Virtual Interactive Training Agents (ViTA) software in improving participants, interview skills and self-efficacy", (PI: Shanna Burke), Dan Marino Foundation, 2016-2018.
- [3] Co-Investigator, "Episodic Memory and Suggestibility in Children with Attention Deficit Hyperactivity Disorder", (PI: Lindsay Malloy), NICHD, R03HD077161-01A1, 2014-2017.
- [4] Co-Investigator, "The Effectiveness of Service Integration: Studying the Crossover Youth Practice Model", (PI: Hui Huang), Florida Institute for Child Welfare/FSU, 2015-2017.
- [5] Senior Statistician, " Decision Making and Episodic Memory in Trajectories to Cannabis Dependence", (PI: Raul Gonzalez), NIDA, R01DA031176, 2012-2018.
- [6] Co-Investigator (stopped in 2016), "FIU-ABCD: Pathways and Mechanisms to Addiction in the Latino Youth of South Florida", (PI: Raul Gonzalez), NIH, 1U01DA041156-01, 2015-2020.

Past Research

- [7] Biostatistician, " Center for Substance Use and AIDS Research on Latinos in the United States", (PI: Mario De La Rosa), NIH, P20MD002288, 2012-2016.
- [8] Co-Investigator, "Survey of predictors of HPV vaccination among parents of rural adolescent girls in Mysore Taluk, Mysore District, India", (PI: Purnima Madhivanan), Merck & Co. Inc. MSD Pharmaceuticals Priv, MISP#38250, 2013-2016.
- [9] Senior Statistician, " Development of a Kindergarten Transitional Program for Preschool Students Identified as Being at High-Risk for Behavioral Disorders", (PI: Paulo Graziano), Institute of Education Sciences, R324A120136, 2012-2015.
- [10] Senior Statistician, "Increasing Academic Success in Middle School Students with ADHD", (PI: William Pelham), NIMH, R34MH092466-01A1, 2012-2015.

- [11] Co-Investigator, "A Novel Approach to Stimulant Induced Weight Suppression and its impact on Growth", (PI: William Pelham & James Waxmonsky), NIMH, R01MH083692, 2010-2015.
- [12] Senior Statistician, "Development of drug use and abuse in ADHD adolescents", (PI: William Pelham), NIDA, R01DA012414, 2010-2014.
- [13] Senior Statistician, "Behavior modification and young ADHD children", (PI: William Pelham), NIMH, MH0-69614, 2005-2012.

TEACHING
EXPERIENCE

Florida International University, Miami, FL

Instructor

- *PHC 6031 Special Topics in Biostatistics: Principals and Approaches to Biostatistical Consulting* (Graduate course, Fall 2015)
- *PHC 6091 Biostatistics 2* (Graduate course, Spring 2015 & Spring 2016)
- *PHC 6052 Biostatistics 1* (Graduate course, Fall 2014, Fall 2015, & Fall 2016)
- *PHC 6718 Quantitative Research Analysis in Public Health* (Graduate course, Spring 2014)
- *PHC 6065 Health Statistics* (Graduate course, Spring & Fall 2013)
- *HSC 4751 Statistical Applications* (Undergraduate course, Fall 2012)

SERVICE

Departmental representative for

- **Education Policy Committee (EPC)** 2015-present
- **CEPH Taskforce Committee** 2016-present
- **Scholarship Committee** 2017-present
- **Department chair search committee** 2016-present

Ph. D Dissertation Committee Member

Sahar Ajabshir, Department of Dietetics and Nutrition, FIU
 Janet Antwi (graduated in 2014), Department of Dietetics and Nutrition, FIU
 Amanpreet Cheema (graduated in 2014), Department of Dietetics and Nutrition, FIU
 Joel Exebio (graduated in 2016), Department of Dietetics and Nutrition, FIU
 Tammy Fogarty, Department of Dietetics and Nutrition, FIU
 Christina Jacobs (graduated in 2015), Department of Dietetics and Nutrition, FIU
 Johanna Lopez (graduated in 2016), Department of Dietetics and Nutrition, FIU
 Abraham Mengist, Department of Epidemiology, FIU
 Kristopher Myers, Department of Epidemiology, FIU
 Olatokunbo Osibogun, Department of Epidemiology, FIU
 Justina Owusu, Department of Dietetics and Nutrition, FIU
 Dudith Pierre (graduated in 2016), Department of Epidemiology, FIU
 Ailin Rodriguez, Department of Health Promotion and Disease Prevention, FIU
 Ziyad Ben Taleb (graduated in 2016), Department of Epidemiology, FIU
 Hideaki Tanaka (graduated in 2015), Department of Health Promotion and Disease Prevention, FIU
 Kelly Winter, Department of Epidemiology, FIU

Ling Xu, Department of Dietetics and Nutrition, FIU
Gustavo Zarini, Department of Dietetics and Nutrition, FIU

MPH Advisor

Alberto Cruz, Department of Biostatistics, FIU
Katrina Epnere (graduated in 2017), Department of Biostatistics, FIU
Kapil Rathi (graduated in 2016), Department of Biostatistics, FIU
Ana Toro (graduated in 2017), Department of Biostatistics, FIU
Weize Wang (graduated in 2016), Department of Biostatistics, FIU

**COMPUTER
SKILLS**

Statistical Packages: *R, SAS, Mplus, SPSS, WinBUGS, MiniTAB, STATA, and PARSCALE*

Data Management Software: *REDCap, Epi Info*

Languages: *FORTRAN*