

List of key references on TVEM

Provided by:

Stephanie Lanza, Ph.D.

Medicine: Mind the Gap Seminar

Time-Varying Modeling to Study Developmental and Dynamic Processes

January 29, 2016

Technical details on TVEM and mixture TVEM

Dziak, J. J., Li, R., Tan, X., Shiffman, S., & Shiyko, M. P. (2015). Modeling intensive longitudinal data with mixtures of nonparametric trajectories and time-varying effects. *Psychological Methods*, 20, 444-469. PMCID: PMC4679529

Dziak, J. J., Li, R., Zimmerman, M. and Buu, A. (2014). Time-varying effect model for ordinal responses with applications in substance abuse research. *Statistics in Medicine*. 33, 5126 - 5137. PMCID: PMC4227951

Tan, X., Shiyko, M. P., Li, R., Li, Y., & Dierker, L. (2012). A time-varying effect model for intensive longitudinal data. *Psychological Methods*, 17, 61-77. doi:10.1037/a0025814. PMCID: PMC328855

Trail, J. B., Collins, L. M., Rivera, D. F., Li, R., Piper, M. E., Baker, T. B. (2014). Functional Data Analysis for Dynamical System Identification of Behavioral Processes. *Psychological Methods*. 19, 175 - 187. PMCID: PMC3977629

TVEM to study dynamic (i.e., time-varying) effects

Lanza, S. T., Vasilenko, S. A., Liu, X., Li, R., & Piper, M. E. (2014). Advancing understanding of the dynamics of smoking cessation using the time-varying effect model. *Nicotine and Tobacco Research*, 16, S127-S134. doi: 10.1093/ntr/ntt128 PMCID: PMC3977629

Liu, X., Li, R., Lanza, S. T., Vasilenko, S. A., & Piper, M. E. (2013). Understanding the role of cessation fatigue in the smoking cessation process. *Drug and Alcohol Dependence*. 133, 548-555. doi: 10.1016/j.drugalcdep.2013.07.025 PMCID: PMC4057045

Mason, M., Mennis, J., Way, T., Lanza, S., Russell, M., & Zaharakis, N. (in press). Time-varying effects of a text-based smoking cessation intervention for urban adolescents. *Drug and Alcohol Dependence*, 157, 99-105. PMC Journal- In Process

Shiyko, M. P., Lanza, S. T., Tan, X., Li, R., & Shiffman, S. (2012). Using the time-varying effect model (TVEM) to examine dynamic associations between negative affect and self-confidence on smoking urges: Differences between successful quitters and relapsers. *Prevention Science*, 13, 288-299. doi: 10.1007/s11121-011-0264-z PMCID: PMC3372905

Vasilenko, S. A., Piper, M. E., Lanza, S. T. Liu, X., Yang, J., & Li, R. (2014). Time-varying processes involved in smoking lapse in a randomized trial of smoking cessation therapies. *Nicotine and Tobacco Research*, 16, S135-S143. doi: 10.1093/ntr/ntt18. PMCID: PMC3977637

Yang, H., Cranford, J., Li, R., & Buu, A. (2015). Two-stage model for time-varying effects of discrete longitudinal covariates with applications in analysis of daily process data. *Statistics in Medicine*. 34, 571 - 581. PMCID: PMC4314391

TVEM to study developmental (i.e., age-varying) effects

Evans-Polce, R. J., Vasilenko, S. A., & Lanza, S.T. (2014). Changes in gender and racial/ethnic disparities in rates of cigarette use, regular heavy episodic drinking, and marijuana use: Ages 14 to 32. *Addictive Behaviors*, 41, 218-222 PMCID: PMC4314406

Schuler, M. S., Vasilenko, S. A., & Lanza, S. T. (2015). Age-varying associations between substance use behaviors and depressive symptoms during adolescence and young adulthood. *Drug and Alcohol Dependence*, 157, 75-82. PMCID: PMC4663168

Vasilenko, S. A. & Lanza, S. T. (2014). Predictors of multiple sexual partners from adolescence through young adulthood. *Journal of Adolescent Health*, 56, 491-497. doi: 10.1016/j.jadohealth.2013.12.025 PMCID: PMC4139487

Yang, H., Li, R., Zucker, R., & Buu, A. (2015). Two-stage model for time-varying effects of zero-inflated count longitudinal covariates with applications in health behavior research. *Journal of Royal Statistical Society, Series C*. Advance online publication. doi: 10.1111/rssc.12123 PMC Journal- In Process

TVEM to examine historical trends in rates and associations

Lanza, S. T., Vasilenko, S. A., Dziak, J. J., & Butera, N. M. (2015). Trends among US high school seniors in recent marijuana use and associations with other substances: 1976 to 2013. *Journal of Adolescent Health*, 57, 198-204. PMCID: PMC4629476

TVEM to examine age of onset/timing of an event

Lanza, S. T., & Vasilenko, S. A. (2015). New methods shed light on age of onset as a risk factor for nicotine dependence. *Addictive Behaviors*, 50, 161-164. doi:10.1016/j.addbeh.2015.06.024 PMCID: PMC4519837