**Recommended Reading List**

**Articles introducing TVEM**

Lanza, S. T., Vasilenko, S. A., & Russell, M. A. (2016). Time-Varying Effect Modeling to Address New Questions in Behavioral Research: Examples in Marijuana Use. *Psychology Of Addictive Behaviors*. <http://doi.org/10.1037/adb0000208>

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. <http://doi.org/10.1007/s11121-011-0264-z>

**Developmental Time Examples**

Dierker, L., Braymiller, J., Rose, J., Goodwin, R., & Selya, A. (2018). Nicotine dependence predicts cannabis use disorder symptoms among adolescents and young adults. *Drug and Alcohol Dependence, 187,* 212-220.

Russell, M. A., Vasilenko, S. A., & Lanza, S. T. (2016). Age-varying links between violence exposure and behavioral, mental, and physical health. *J Adolesc Health*. <http://doi.org/10.1016/j.jadohealth.2016.03.038>

Vasilenko, S. A. (2017). Age-varying associations between nonmarital sexual behavior and depressive symptoms across adolescence and young adulthood. *Developmental Psychology, 53*(2), 366–378. <http://doi.org/10.1037/dev0000229>

Vasilenko, S. A., & Lanza, S. T. (2014). Predictors of multiple sexual partners from adolescence through young adulthood. *Journal of Adolescent Health, 55*(4), 491–7. <http://doi.org/10.1016/j.jadohealth.2013.12.025>

**Time from Event Examples**

Cook, J. W., Lanza, S. T., Chu, W., Baker, T. B., & Piper, M. E. (2017). Anhedonia: Its dynamic relations with craving, negative affect, and treatment during a quit smoking attempt. *Nicotine and Tobacco Research, 19*(6), 703–709. <http://doi.org/10.1093/ntr/ntw247>

Lanza, S. T., Vasilenko, S. A, Liu, X., Li, R., & Piper, M. E. (2014). Advancing the understanding of craving during smoking cessation attempts: a demonstration of the time-varying effect model. *Nicotine & Tobacco Research, 16* Suppl 2(May), S127–34. <http://doi.org/10.1093/ntr/ntt128>

Mason, M., Mennis, J., Way, T., Lanza, S., Russell, M., & Zaharakis, N. (2015). Time-varying effects of a text-based smoking cessation intervention for urban adolescents. *Drug and Alcohol Dependence, 157*(2015), 99–105. <http://doi.org/10.1016/j.drugalcdep.2015.10.016>

**Historical Time Example**

Lanza, S. T., Vasilenko, S. A., Dziak, J. J., & Butera, N. M. (2015). Trends among U.S. High School Seniors in Recent Marijuana Use and Associations with Other Substances: 1976-2013. *Journal of Adolescent Health*, 57(2). <http://doi.org/10.1016/j.jadohealth.2015.04.006>

**Timing of Event Examples**

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. <http://doi.org/10.1016/j.addbeh.2015.06.024>

Vasilenko, S. A., Kugler, K. C., & Rice, C. E. (2016). Timing of First Sexual Intercourse and Young Adult Health Outcomes. *J Adolesc Health*, *59*(3), 291-7. <http://doi.org/10.1016/j.jadohealth.2016.04.019>

**Technical Details**

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. PMCID: PMC3288551

Li, R., Dziak, J. J., Tan, X., Huang, L., Wagner, A. T., & Yang, J. (2017*). TVEM (time-varying effect model) SAS macro users' guide (Version 3.1.1).* University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>

**Non-Time Example**

Selya, A. S., Dierker, L., Rose, J. S., Hedeker, D., & Mermelstein, R. J. (2016). Early-Emerging Nicotine Dependence Has Lasting and Time-Varying Effects on Adolescent Smoking Behavior. *Prev Sci*, *17*(6), 743-50. <http://doi.org/10.1007/s11121-016-0673-0>

**Weighted Analysis With Moderation**

Vasilenko, S. A., Linden‐Carmichael, A., Lanza, S. T., & Patrick, M. E. (2017). Sexual behavior and heavy episodic drinking across the transition to adulthood: differences by college attendance. *Journal of Research on Adolescence*. Advance online publication. doi: 10.1111/jora.12348