

Stephanie T. Lanza, PhD

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Current Academic Position, The Pennsylvania State University

Professor, Biobehavioral Health
Professor, Human Development and Family Studies (courtesy appointment)
Scientific Director, The Methodology Center

Career Summary

- Principal Investigator on 4 active NIH grants; Co-Investigator on 4 active NIH grants
- 55+ invited talks or workshops (5 international), 100+ other academic talks
- 2015-present, Member, Society for Prevention board of directors
- 2012-2016, Associate Editor, *Prevention Science*
- Received 2014 Society for Prevention Research Friend of ECPN Mentoring Award
- Received 2008 Society for Prevention Research Early Career Award
- Served as primary mentor for 8 postdoctoral fellows; served on 18 dissertation committees
- Developed graduate courses: Introduction to Latent Class and Latent Transition Analysis; New Methods for Analysis of Intensive Longitudinal Data; Introduction to Time-Varying Effect Modeling
- Led development of PROC LCA, SAS procedure for estimating latent class models

Education

2003	Ph.D.	Human Development and Family Studies, The Pennsylvania State University
2002	M.A.S.	Applied Statistics, The Pennsylvania State University
1998	M.S.	Human Development and Family Studies, The Pennsylvania State University
1992	B.S.	Mathematical Science, Statistics Option, The University of North Carolina at Chapel Hill
1992	B.A.	Psychology, The University of North Carolina at Chapel Hill

Research Interests and Collaborative Skills

My career is devoted to advancing research in behavioral health through the development and application of innovative quantitative methods. I focus this work in two key areas. First, I work on extensions to latent class analysis so that researchers can discover hidden subgroups in their data and understand antecedents and consequences of their membership. Second, I focus on translating time-varying effect models, which have been described in the statistical literature, for behavioral and health scientists and solve problems that arise in their application. These models enable scientists to examine regression coefficients as a continuous function of age or time, often using intensive longitudinal data. I believe that (a) new methods for analyzing existing data hold enormous potential to unlock critical scientific knowledge, and (b) this potential will not be realized until behavioral and health scientists begin to assimilate and apply them in their research. This philosophy is evidenced by the extensive network of collaborators I have built, which includes statisticians, developmentalists, engineers, psychologists, and psychiatrists, and by my devotion to the dissemination of new methods to behavioral and health scientists everywhere.

Previous Positions

2011-2015	Penn State: Research Associate Professor, Health and Human Development
2014-2015	Penn State: Acting Director, The Methodology Center
2004-2009	Penn State: Scientific Director and Research Associate, The Methodology Center
2003-2004	The University of North Carolina at Chapel Hill: Assistant Professor of Psychology and Investigator, FPG Child Development Institute
2001-2004	Tobacco Etiology Research Network (TERN): Project Statistician
2001-2002	Kligman pre-doctoral fellow
1996-2001	The Pennsylvania State University: Graduate Research Assistant, The Methodology Center
1995-1996	Glaxo-Wellcome Pharmaceuticals, Cary, NC: Statistical Programmer, Glaxo-Wellcome Pharmaceuticals
1992-1995	FGI Inc. Marketing Research, Chapel Hill, NC: Data Analyst

Research Support

Active

Principal Investigator (NIH/NIDA R01-DA039854)

Age-Varying Effects in the Epidemiology of Drug Abuse

Project dates: 7/1/2015-6/30/2018

\$668,760

Principal Investigator (NIH/NCI R01-CA168676)

Advancing Tobacco Research by Integrating Systems Science and Mixture Models

Project dates: 9/1/2012-8/31/2016

\$502,754

Principal Investigator (Scientific Project) (NIH/NIDA P50; Center PI: Linda Collins)

Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science:

Multidimensional and Dynamic Moderation in Drug Abuse and HIV Studies

Project dates: 9/1/2015-8/31/2020

\$2,434,457

Principal Investigator (Core Project) (NIH/NIDA P50; Center PI: Linda Collins)

Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science:

Pilot, Mentoring, and Professional Development Core

Project dates: 9/1/2015-8/31/2020

\$1,442,496

Principal Investigator (NIH/NIDA R13-DA020334)

Drug Abuse and HIV Prevention Research Methodology Conferences: Summer Institute on Innovative Methods

Project dates: 6/15/2016-6/14/2021

\$125,000

Investigator (NIH/NIA UH2-AG052167; PI: David Almeida)

Everyday Stress Response Targets in Science of Behavior Change

Project dates: 9/1/2015-8/31/2020

Investigator (NIH/NIDA R01-DA037902; PI: Megan Patrick, University of Michigan)

Dynamic Links between Risk Factors, Substance Use, and Consequences: Ages 18-35

Project dates: 4/1/2015-12/31/2018

\$558,404 subcontract

Completed Research Support (only projects as PI listed)

2011-2016 **Principal Investigator** – Drug Abuse and HIV Prevention Research Methodology Conferences: Summer Institute on Innovative Methods, NIDA - \$125,000 (R13-DA020334)

2010-2015 **Principal Investigator (Scientific Project)** – Center for Prevention and Treatment Methodology: Advances in Finite Mixture Modeling for Substance Use and HIV Research (Center PI: Linda Collins), NIDA – \$1,026,901 (P50-DA10075)

2010-2015 **Principal Investigator (Core Project)** – Center for Prevention and Treatment Methodology: Software Development and Technology Transfer Core (Center PI: Linda Collins), NIDA – \$1,532,211 (P50-DA10075)

2012 **Principal Investigator** – Joint Modeling of the Effects of Substance Use on Changes in CD4 and on Survival Time of Women with HIV, NIDA – \$70,463 (supplement to Women's Interagency HIV Study Collaboration Grant, U01-AI031834)

2005-2010 **Principal Investigator (Core Project)** – Center for Prevention and Treatment Methodology: Software Development Core (Center PI: Linda Collins), NIDA – \$1,078,699 (P50-DA10075)

2005-2010 **Principal Investigator** – Drug Abuse Prevention Research Methodology Conferences: Summer Institute on Longitudinal Methods, NIDA – \$125,000 (R13-DA020334)

2007-2009 **Principal Investigator** – Identifying Risk Profiles for Substance Use and Comorbid Behavior, NIDA – \$125,730 (R03-DA023032)

2005 **Principal Investigator** – An Investigation of Methods for Risk Assessment and Analysis, Social Science Research Institute Seed Grant, The Pennsylvania State University – \$4800

Publications

* Student coauthor; ** Postdoctoral researcher

Books

Collins, L. M., & **Lanza**, S. T. (2010). *Latent class and latent transition analysis: With applications in the social, behavioral, and health sciences*. New York: Wiley.

Editor: Special Journal Issues (Peer Reviewed)

Lanza, S. T., Piper, M. E., & Shiffman, S. (Eds.) (2014). New Methods for Advancing Research on Tobacco Dependence Using Ecological Momentary Assessments, *Nicotine and Tobacco Research*, 16 Suppl 2.

Note. Funding for issue provided by NIH National Cancer Institute and Office of Behavioral and Social Science Research

Peer-Reviewed Journal Articles (h-index=27)

103. *Ashour, M., **Bekiroglu, K., Yang, C.-H., Lagoa, C., Conroy, D., Smyth, J., & **Lanza**, S. T. (in press). On the Mathematical Modeling of Human Physical Activity. IEEE Conference on Computer Aspects of Control Systems Design (CACSD) 2016.
102. Cook, J. W., **Lanza**, S. T., *Chu, W., Baker, T. B., & Piper, M. E. (in press). Anhedonia: Its Dynamic Relations with Craving, Negative Affect, and Treatment During a Quit Smoking Attempt. *Nicotine and Tobacco Research*.
101. Dziak, J. J., Bray, B. C., *Zhang, J., Zhang, M., & **Lanza**, S. T. (in press). Comparing the Performance of Improved Classify-Analyze Approaches in Latent Profile Analysis. *Methodology*.
100. **Lanza**, S. T., & Cooper, B. R. (in press). Latent class analysis: Contributions to developmental research and new directions. *Child Development Perspectives*.
99. Piper, M. E., Vasilenko, S. A., Cook, J. W., & **Lanza**, S. T. (in press). What a Difference a Day Makes: Differences in Initial Abstinence Response During a Smoking Cessation Attempt. *Addiction*.
98. **Rice, C., Maierhofer, C., **Lanza**, S. T., & Turner, A. N. (in press). Beyond anal sex: Sexual practices Among MSM and Associations with HIV and Other Sexually Transmitted Infections. *Journal of Sexual Medicine*.
97. **Rice, C. E., Turner, A. N., & **Lanza**, S. T. (in press). Sexual behavior latent classes among men who have sex with men: Associations with sexually transmitted infections. *The Journal of Sex Research*.
96. **Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza**, S. T. (2016). Control engineering methods for the design of robust behavioral treatments. *IEEE Transactions on Control Systems Technology*, 99, 1-12. doi: 10.1109/TCST.2016.2580661
95. **Evans-Polce, R. E., **Lanza**, S. T., & Maggs, J. L. (2016). Heterogeneity of alcohol, tobacco, and other substance use behaviors in US college students: A latent class analysis. *Addictive Behaviors*, 53, 80-85. doi: 10.1016/j.addbeh.2015.10.010
94. **Fairlie, A. M., Maggs, J. L., & **Lanza**, S. T. (2016). Profiles of college drinkers defined by alcohol behaviors at the week level: Replication across semesters and prospective associations with hazardous drinking and dependence-related symptoms. *Journal of Studies on Alcohol and Drugs*. 77, 38-50, doi: 10.15288/jsad.2016.77.38
93. **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://dx.doi.org/10.1037/adb0000208>
92. *Parr, A., **Lanza**, S. T., & Bernthal, P. (2016). The great man or great men: Is there a one-size-fits-all for effective leadership. *Human Performance*. 29:2, 143-157. doi: 10.1080/08959285.2016.1157596
91. Patrick, M. E., Kloska, D. D., Vasilenko, S. A., & **Lanza**, S. T. (2016). Perceived Friends' Use as a Risk Factor for Marijuana Use Across Young Adulthood. *Psychology of Addictive Behaviors*. <http://dx.doi.org/10.1037/adb0000215>
90. Russell, M. A., Vasilenko, S. A., & **Lanza**, S. T. (2016). Age-Varying Links Between Violence Exposure and Behavioral, Mental, and Physical Health. *Journal of Adolescent Health*. doi: 10.1016/j.jadohealth.2016.03.038
89. Bray, B. C., **Lanza**, S. T., & Tan, X. (2015). Eliminating bias in classify-analyze approaches for latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, 22, 1-11. doi: 10.1080/10705511.2014.935265 PMID: PMC4299667

88. **Evans-Polce, R. E., Vasilenko, S. A., & **Lanza**, S. T. (2015). 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. PMID: PMC4314406
87. **Fairlie, A. M., Maggs, J., L., & **Lanza**, S. T. (2015). Prepartying, drinking games, and extreme drinking among college students: A daily-level investigation. *Addictive Behaviors*, *42*, 91-95. PMID: PMC4272894
86. **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. PMID: PMC4519837
85. **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. doi:10.1016/j.jadohealth.2015.04.006 PMID: PMC4519837
84. 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*, 99-105. doi: 10.1016/j.drugalcdep.2015.10.016
83. **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. doi: 10.1016/j.drugalcdep.2015.10.005. PMID: PMC4663168
82. Vasilenko, S. A., Kugler, K. C., *Butera, N. M. & **Lanza**, S. T. (2015). Patterns of adolescent sexual behavior predicting young adult sexually transmitted infections: A latent class analysis approach. *Archives of Sexual Behavior*, *44*, 705-715. doi: 10.1007/s10508-014-0258-6. PMID: PMC4107199
81. Vasilenko, S. A., Kugler, K. C., & **Lanza**, S. T. (2015). Latent classes of adolescent sexual and romantic relationship experiences: Implications for adult sexual health and relationship outcomes. *The Journal of Sex Research*. DOI: 10.1080/00224499.2015.1065952
80. *Zhang, J., Bray, B. C., Zhang, M., & **Lanza**, S. T. (2015). Personality profiles and frequent heavy drinking in young adulthood. *Personality and Individual Differences*, *80*, 18-21. doi:10.1016/j.paid.2015.01.054 PMID: PMC4397499
79. *Zhang, J., **Lanza**, S. T., Zhang, M., & Su, B. (2015). Structure of the University Personality Inventory for Chinese college students. *Psychological Reports: Measures & Statistics*, *116*, 821-839. doi: 10.2466/08.02.PR0.116k26w3
78. *Butera, N. M., **Lanza**, S. T., & Coffman, D. L. (2014). A framework for estimating causal effects in latent class analysis: Is there a causal link between early sex and subsequent profiles of Delinquency? *Prevention Science*, *15*, 397-407. doi: 10.1007/s11121-013-0417-3. PMID: PMC3888479
77. Cooper, B. R., & **Lanza**, S. T. (2014). Who benefits most from Head Start? Using latent class moderation to examine differential treatment effects. *Child Development*, *85*, 2317-2338. doi: 10.1111/cdev.12278. PMID: PMC4236237
76. Dziak, J. J., **Lanza**, S. T., & Tan, X. (2014). Effect size, statistical power, and sample size requirements for the bootstrap likelihood ratio test in latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, *21*, 1-19. doi: 10.1080/10705511.2014.919819. PMID: PMC4196274
75. Lagoa, C., *Bekiroglu, K., **Lanza**, S. T., & Murphy, S. (2014). Designing adaptive intensive interventions using methods from engineering. *Journal of Consulting and Clinical Psychology*, *82*, 868-78. PMID: PMC4176810
74. **Lanza**, S. T., Cooper, B. R., & Bray, B. C. (2014). Population heterogeneity in the salience of multiple risk factors for adolescent delinquency. *Journal of Adolescent Health*, *54*, 319-325. PMID: PMC3943167
73. **Lanza**, S. T., Piper, M. E., & Shiffman, S. (2014). New methods for advancing research on tobacco dependence using ecological momentary assessments. *Nicotine and Tobacco Research*, *16 Suppl 2*, S71-S72. PMID: PMC4085886
72. **Lanza**, S. T., Vasilenko, S., *Liu, X., Li, R., & Piper, M. (2014). Advancing the understanding of craving during smoking cessation attempts: A demonstration of the time-varying effect model. *Nicotine and Tobacco Research*, *16 Suppl 2*, S127-S134. doi: 10.1093/ntr/ntt128 PMID: PMC3977629
71. 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. PMID: PMC4139487
70. 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. PMID: PMC3977637
69. Abraham, L. M., Crais, E., Vernon-Feagans, L., & **The Family Life Project Key Investigators** (2013). Early maternal language use during book sharing in families from low income environments. *American Journal of Speech Language Pathology*, 22, 71-83. doi: 10.1044/1058-0360(2012/11-0153).
 68. *Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza, S. T.** (2013). A robust MPC approach to the design of treatments. *Proceedings of the 52nd IEEE Conference on Decision and Control*. PMC Exempt
 67. *Deiches, J., Baker, T., **Lanza, S. T.**, & Piper, M. (2013). Early lapses in a cessation attempt: Lapse contexts, cessation success and predictors of early lapse. *Nicotine and Tobacco Research*, 15, 1883-91. PMID: PMC3790630
 66. Hillemeier, M. M., **Lanza, S. T.**, Landale, N. S., & Oropesa, R. S. (2013). Measuring early childhood health and health disparities: A new approach. *Maternal and Child Health Journal*, 17, 1852-1861. PMID: PMC3615056 doi: 10.1007/s10995-012-1205-6
 65. **Hopfer, S., Hecht, M. L., **Lanza, S. T.**, Tan, X., & **Xu, S. (2013). Preadolescent drug use resistance skill profiles, substance use, and substance use prevention. *The Journal of Primary Prevention*, 34, 395-404. PMID: PMC4089389
 64. Landale, N. S., **Lanza, S. T.**, Hillemeier, M. M., & Oropesa, R. S. (2013). Health and development among Mexican, Black, and white preschool children: An integrative approach using latent class analysis. *Demographic Research*, 28, 1302-1338, PMID: PMC4105264
 63. **Lanza, S. T.**, Coffman, D. L., & **Xu, S. (2013). Causal inference in latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, 20, 361-383. PMID: PMC4240500
 62. **Lanza, S. T.**, *Moore, J. E., & *Butera, N. M. (2013). Drawing causal inference using propensity scores: A practical guide for community psychologists. *American Journal of Community Psychology*, 52, 380-392. doi: 10.1007/s10464-013-9604-4. PMID: PMC4098642
 61. **Lanza, S. T.** & *Rhoades, B. L. (2013). Latent class analysis: An alternative perspective on subgroup analysis in prevention and treatment. *Prevention Science*, 14, 157-168. PMID: PMC3173585
 60. **Lanza, S. T.**, Tan, X., & Bray, B. C. (2013). Latent class analysis with distal outcomes: A flexible model-based approach. *Structural Equation Modeling*, 20, 1-20. PMID: PMC4240499
 59. *Liu, X., Li, R., **Lanza, S. T.**, **Vasilenko, S., & Piper, M. (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 PMID: PMC4057045
 58. Pancsofar, N., Vernon-Feagans, L., Odom, E., & **The Family Life Project Investigators.** (2013). Work characteristics and fathers' vocabulary to infants in African American families. *Journal of Applied Developmental Psychology*, 34, 73-81. DOI: 10.1016/j.appdev.2012.11.005 PMID: PMC3587678
 57. Barnett, M. A., Mills-Koonce, W. R., Gustaffson, H. C., Cox, M. & **Family Life Project Key Investigators** (2012). Mother-grandmother conflict, negative parenting, and young children's social development in multigenerational families. *Family Relations*, 61, 864-877. DOI: 10.1111/j.1741-3729.2012.00731.x
 56. Cleveland, M. J., **Lanza, S. T.**, Ray, A. E., Turrisi, R., & Mallett, K. M. (2012). Transitions in first-year college student drinking behaviors: Does drinking latent class membership moderate the effects of parent- and peer-based intervention components? *Psychology of Addictive Behaviors*, 26, 440-450. PMID: PMC3413757.
 55. Gustafsson, H. C., Cox, M. J., Blair, C., & **the Family Life Project Key Investigators.** (2012). Maternal parenting as a mediator of the relationship between intimate partner violence and effortful control. *Journal Of Family Psychology*, 26(1), 115-123. doi:10.1037/a0026283 PMID: PMC3327444
 54. **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/s11211-011-0264-z PMID: PMC3171604
 53. Vernon-Feagans, L., Garrett-Peters, P., Willoughby, M., Mills-Koonce, R., Cox, M., Blair, C., Burchinal, P., Burton, L., Crnic, K., Crouter, N., Garrett-Peters, P., Granger, D., Greenberg, M., **Lanza, S.**, Miccio, A., Mills-Koonce, R., Skinner, D., Stifter, C., Werner, E., & Willoughby, M. (2012). Chaos, poverty, and parenting: Predictors of early language development. *Early Childhood Research Quarterly*, 27, 339 – 351.

52. Blair, C., Granger, D., Willoughby, M., Mills-Koonce, W.R., Cox, M., Greenberg, M.T., Kivlighan, K., Fortunato, C., & **The Family Life Project Key Investigators**. (2011). Salivary cortisol mediates effects of poverty and parenting on executive functions in early childhood. *Child Development, 82*(6), 1970-1984. DOI: 10.1111/j.1467-8624.2011.01643.x PMID: PMC3218241
51. Garrett-Peters, P.T., Mills-Koonce, W. R., Zerwas, S., Cox, M. J., Vernon-Feagans, L., & **The Family Life Project Key Investigators** (2011). Fathers' early emotion talk: Associations with income, ethnicity, and family practice. *Journal of Marriage and Family, 73*(2), 335-353. doi: 10.1111/j.1741-3737.2010.00810.x
50. Goodman, W. B., Crouter, A. C., **Lanza, S. T.**, Cox, M. J., Vernon-Feagans, L., & The Family Life Project Key Investigators (2011). Paternal work stress and latent profiles of father-infant parenting quality. *Journal of Marriage and Family, 73*(3), 588-604. PMID: PMC3495607
49. Hibel, L.C., Granger, D.A., Blair, C., Cox, M.J., & **The Key Family Life Project Investigators**. (2011). Maternal sensitivity buffers the adrenocortical implications of intimate partner violence exposure during early childhood. *Development and Psychopathology, 23*, 689-701. doi:10.1017/S0954579411000010
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46. Mills-Koonce, W. R., Garrett-Peters, P., Barnett, M., Granger, D., Blair, B, Cox, M. J., & **The Family Life Project Key Investigators**. (2011). Father contributions to cortisol responses in infancy and toddlerhood. *Developmental Psychology, 47*(2), 288-395. doi: 10.1037/a0021066
45. *Rhoades, B. L., Greenberg, M. T., **Lanza, S. T.**, & Blair, C. (2011). Demographic and familial predictors of early executive function development: Contribution of a person-centered perspective. *Journal of Experimental Child Psychology, 108*(3), 638-662. PMID: PMC3016464
44. Smith, R. A., & **Lanza, S. T.** (2011). Testing theoretical network classes and HIV-related correlates with latent class analysis. *AIDS Care, 23*, 1274-1281. doi: 10.1080/09540121.2011.555747. PMID: PMC3181093
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42. *Bray, B. C., **Lanza, S. T.**, & Collins, L. M. (2010). Modeling relations among discrete developmental processes: A general approach to associative latent transition analysis. *Structural Equation Modeling, 17*, 541-569. PMID: PMC3094019
41. Cleveland, M. J., Collins, L. M., **Lanza, S. T.**, Greenberg, M. T., & Feinberg, M. E. (2010). Does individual risk moderate the effect of contextual-level protective factors? A latent class analysis of substance use. *Journal of Prevention and Intervention in the Community, 38*(3), 213-228. PMID: PMC2898733
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39. **Lanza, S. T.**, Patrick, M. E., & Maggs, J. L. (2010). Latent transition analysis: Benefits of a latent variable approach to modeling transitions in substance use. *Journal of Drug Issues, 40*(1), 93-120. PMID: PMC2909684
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37. **Lanza, S. T.**, *Savage, J., & Birch, L. (2010). Identification and prediction of latent classes of weight loss strategies among women. *Obesity, 18*(4), 833-840. PMID: PMC2847025
36. Maldonado, M. M., & **Lanza, S. T.** (2010). A framework to examine gateway relations in drug use: An application of latent transition analysis. *Journal of Drug Issues, 40*(4), 901-924. PMID: PMC3400537
35. Odom E. C., Vernon-Feagans, L., & **The Family Life Project Key Investigators**. (2010). Buffers of racial discrimination: Links with depression among rural African American mothers. *Journal of Marriage and Family, 72*, 346-359. PMID : PMC2909597

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33. Willoughby, M. T., Blair, C. B., Wirth, R. J., Greenberg, M., & **The Family Life Investigative Group**. (2010). The measurement of executive function at age 3 years: Psychometric properties and criterion validity of a new battery of tasks. *Psychological Assessment*, 22(2) 306-317. Doi: 10.1037/a0018708
32. BeLue, R., **Lanza**, S. T., & Figaro, M. K. (2009). Lifestyle therapy changes and hypercholesterolemia: Identifying risk groups in a community sample of blacks and whites. *Ethnicity and Disease*, 19(2), 142-147. PMID: PMC2786171
31. De Marco, A., Crouter, A. C., Vernon-Feagans, L., & **The Family Life Project Key Investigators**. (2009). The relationship between maternal work characteristics and child care selection and quality. *Community, Work, & Family*, 12(4), 369-387. PMID: PMC2909618
30. *Goodman, W. B., Crouter, A. C., & **The Family Life Project Key Investigators** (2009). Longitudinal associations between maternal work stress, negative work-family spillover, and depressive symptoms. *Family Relations*, 58, 245-258. PMID: PMC2744315
29. *Hibel, L. C., Granger, D. A., Blair, C. Cox, M. J., & **The Family Life Project Key Investigators**. (2009). Intimate partner violence moderates the association between mother-infant adrenocortical activity across an emotional challenge. *The Journal of Family Psychology*, 23(5), 615-625.
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Submitted

Bekiroglu, K., Russell, M. A., Lagoa, C. M., **Lanza, S. T., & Piper, M. E. (under review). Evaluating the Effect of Smoking Cessation Treatment on a Complex Dynamical System.

Evans-Polce, R., Maggs, J. L., Staff, J., & **Lanza, S. T. (under revision). The Age-varying Association of Student Status with Excessive Alcohol Use: Ages 18 to 30 Years.

Lanza, S. T., Russell, M. A., & Braymiller, J. (under revision). Emergence of Electronic Cigarette Use in US Adolescents and the Link to Traditional Cigarette Use.

Mello, Z. R., Youngquist, A., & **Lanza, S. T. (under review).** Time Perspective and Sexual Transmitted Infection Risk among Adolescents.

Patrick, M. E., Evans-Polce, R., Kloska, D. D., Maggs, J. L., & **Lanza, S. T. (under revision).** Age-Related Changes in Associations between Reasons for Alcohol Use and High-Intensity Drinking across Young Adulthood.

Rice, C. A., Vasilenko, S. A., **Lanza, S. T., Davis, J. A., Fields, K. S., Ervin, M., & Turner, A. N. (under review). Association between time since first same-sex experience and recreational drug use among MSM: Is there a "gay age"?

Snippe, E., Dziak, J. J., **Lanza, S. T., Nyklíček, I., Wichers, M. (under revision).** The shape of change in perceived stress, negative affect, and stress-sensitivity during mindfulness-based stress reduction.

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Presentations

Invited Presentations and Workshops

- Lanza, S. T. (2016, May). *Time as a key variable in health behavior research*. National Cancer Institute Workshop: Extending Methods in Dietary Patterns Research. Rockville, MD.
- Lanza, S. T. (2016, May). *Using preventive interventions to better understand etiological mechanisms and risk for suicide*. Roundtable discussion at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza, S. T. (2016, April). *Advancing mixture modeling: Determinants of latent class membership*. Invited talk given at the Dartmouth College Institute for Health Policy and Clinical Practice. Hanover, NH.
- Lanza, S. T., & Bray, B. C. (2016, April). Introduction to Latent Class Analysis for Health Behavior Research. Invited workshop given at the Penn State Department of Public Health Sciences, Hershey, PA.
- Lanza, S. T., & Vasilenko, S. A. (2016, March). *Time-varying effect modeling in developmental research on adolescence*. Pre-conference workshop presented at the annual meeting of the Society for Research on Adolescence, Baltimore, MD.
- Lanza, S. T. (2016, February). *Time-varying effect modeling to study developmental and dynamic processes*. CTSI-BERD Recent Topics in Research Methods Seminar. University Park, PA
- Lanza, S. T. (2016, January). *Time-varying effect modeling to study developmental and dynamic processes*. NIH Office of Disease Prevention, Medicine: Mind the Gap lecture. Bethesda, MD.
- Lanza, S. T., & Bray, B. C. (2016, January). *Latent class, latent profile, and latent transition analysis*. Workshop presented at the T. Denny Sanford School of Social and Family Dynamics, Arizona State University, Phoenix, AZ.
- Lanza, S. T. (2015, December). *Time-varying effect modeling to study developmental and dynamic processes*. Presented at the University of Pittsburgh Public Health Dynamics Lab, Pittsburgh, PA.
- Lanza, S. T. (2015, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T., & Russell, M. A. (2015, June). *Advanced analytics for intensive longitudinal data analysis*. Pre-conference workshop presented at the annual meeting of the Society for Ambulatory Assessments, University

- Park, PA.
- Lanza, S. T., & Vasilenko, S. A.** (2015, June). *Summer institute on innovative methods: Introduction to the time-varying effect model*. Workshop presented at the Pennsylvania State University, University Park, PA.
- Lanza, S. T.** (2015, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2014, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2014, June). *Intensive longitudinal data to advance behavioral research: Data integration opportunities and challenges*. Presented at Big Data to Knowledge (BD2K) Data Integration Meeting, Bethesda, MD.
- Lanza, S. T., & Bray, B. C.** (2014, May). *Integrating propensity scores with latent class analysis to identify determinants of latent class membership*. Presented at Statistics and Causality conference, Vienna, Austria.
- Lanza, S. T., & Vasilenko, S. A.** (2014, May). *Time-varying effect models in prevention science*. Pre-conference workshop presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Lanza, S. T.** (2014, May). *Time-varying effect models to analyze intensive longitudinal data*. Workshop presented at the Taste of Methodology, University Park, PA.
- Lanza, S. T.** (2014, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2013, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2013, October). *Make the Most of Your EMA Data: An Introduction to the Time-Varying Effect Model (TVEM)*. Presented at the Department of Psychological Sciences Alcohol Studies Program, University of Missouri, Columbia, MO.
- Bray, B. C., Lanza, S. T., & Coffman, D. L.** (2013, October). *The causal effect of substance use latent class membership on a distal outcome*. Presented at the 10th International Conference on Health Policy Statistics, Chicago, IL.
- Coffman, D. L., Bray, B. C., Lanza, S. T., & Dierker, L. C.** (2013, October). *Estimating the causal effect of a latent class treatment on binary and count outcomes*. Presented at the 10th International Conference on Health Policy Statistics, Chicago, IL.
- Lanza, S. T.** (2013, June). *Latent class and latent transition analysis*. Workshop presented at the Summer Quantitative Methods Series at Portland State University, Portland, OR.
- Lanza, S. T., & Bray, B. C.** (2013, June). *Summer Institute on Longitudinal Methods: Introduction to latent class analysis*. Workshop presented at the Pennsylvania State University, University Park, PA.
- Lanza, S. T., Butera, N. M., & Vasilenko, S.** (2013, March). *Defining "time" in time-varying effect models: Applications of TVEM to cross-sectional and panel data*. Presented at the Methodology Center, Penn State. University Park, PA.
- Lanza, S. T.** (2012, September). *Make the Most of Your EMA Data: An Introduction to the Time-Varying Effect Model (TVEM)*. Presented at the Department of Psychiatry Grand Rounds, Penn State. Hershey, PA.
- Lanza, S. T.** (2012, March). *Make the most of your EMA data: An introduction to the time-varying effect model*. Presented at the joint session of The Methodology Center and The Prevention Research Center, Penn State. University Park, PA.
- Lanza, S. T.** (2012, December). *An Introduction to latent class analysis*. Presented at the Taste of Methodology, University Park, PA.
- Lanza, S. T., & Bray, B. C.** (2012, October). *Latent class analysis*. Presented for Methods Work, Silver Spring, MD.
- Lanza, S. T.** (2012, July). *Latent class analysis in sociological research*. Invited workshop presented at the Center for Family and Demographic Research, Bowling Green, OH.
- Lanza, S. T.** (2012, April). *Latent class analysis*. Preconference workshop presented at the Society for Behavioral Medicine, New Orleans, LA.
- Lanza, S. T., & Piper, M. E.** (2012, March). *A demonstration of the time-varying effect model (TVEM): The dynamic role of dependence on craving during quit attempts*. Invited talk presented at pre-conference workshop at the

- Society for Research on Nicotine and Tobacco annual meetings, Houston, TX.
- Lanza, S. T.** (2012, March). *Make the most of your EMA data: An introduction to the time-varying effect model*. Presented at the joint session of The Methodology Center and The Prevention Research Center, Penn State University Park, PA.
- Lanza, S. T.** (2012, February). *Causal inference in latent class analysis*. Penn State Population Research Institute, University Park, PA.
- Lanza, S. T., & Collins, L. M.** (2012, February). *Latent class analysis*. Presented for Methods Work, Pittsburgh, PA.
- Collins, L. M., & Lanza, S. T.** (2011, August). *Latent class analysis*. Presented for Methods Work, Atlanta, GA.
Also presented October, 2011 for Methods Work, Washington, DC.
- Lanza, S. T.** (2010, March). *At the Intersection of Statistics and the Behavioral Sciences: An Application of Latent Transition Analysis*. Presented at the Department of Statistics 2010 Alumni Workshop, University Park, PA.
- Lanza, S. T.** (2009, September). *Subgroup analysis from a latent class analysis approach*. Presented at the Interagency Federal Methodological Meeting: Subgroup Analysis in Prevention and Intervention Research, Bethesda, MD.
- Collins, L. M., & Lanza, S. T.** (2009, June). *Summer Institute on Longitudinal Methods: Latent class and latent transition analysis*. Presented at the Pennsylvania State University, University Park, PA.
- Lanza, S. T.** (2008, December). *Data sharing requirements: The analyst's perspective*. Presented at the NIDA Crossroads: Sharing Social Environment and Genetic Data Meeting, Bethesda, MD.
- Collins, L. M., Lanza, S. T., & Bray, B. C.** (2008, September). *Masterclass: Latent class analysis for cross-sectional and longitudinal data*. Presented at the Department of Mathematics and Statistics Postgraduate Statistics Centre of Lancaster University and the Economic and Social Research Council National Centre for Research Methods, Lancaster, United Kingdom.
- Lanza, S. T.** (2008, July). *Methodological/Statistical Issues in Grant Proposal Development*. Presented at the NIH Addiction Research Training Institute: Leadership Development Workshop, Atlanta, GA.
- Lanza, S. T.** (2008, July). *Modeling sexual risk behavior as a categorical latent variable*. Presented at the NIDA Sexual Acquisition and Transmission of HIV Cooperative Agreement program (SATH-CAP) Analytic Workgroup Meeting, Bethesda, MD.
- Lanza, S. T.** (2008, June). *Secondary data analysis*. Panel member at the Society for Prevention Research annual meeting, San Francisco, CA.
- Lanza, S. T., & Rhoades, B.** (2008, March). *Modeling multiple risks for child development: Variable-oriented and person-oriented approaches*. Presented at the joint Prevention and Methodology Centers seminar, The Pennsylvania State University, University Park, PA.
- Maldonado-Molina, M. M., & Lanza, S. T.** (2008, March). *Latent transition analysis: Patterns of drug use among adolescents*. Presented at the Addictive & Health Behaviors Research Institute, Jacksonville, FL.
- Lanza, S. T.** (2007, November). *Latent transition analysis for modeling change over time: A demonstration of SAS PROC LTA*. Presented at the American Public Health Association conference, Washington, D.C.
- Collins, L. M., & Lanza, S. T.** (2007, February). *Latent class analysis for cross-sectional and longitudinal data*. Workshop presented at the 36th ZA Spring Seminar. The University of Cologne, Germany.
- Lanza, S. T.** (2006, October). *An introduction to latent class analysis and several extensions*. Presented at the Quantitative Social Sciences Initiative seminar series, The Pennsylvania State University, University Park, PA.
- Lanza, S. T.** (2006, August). *Latent transition analysis: Modeling stage-sequential development*. Workshop presented at the Center for Advancing Longitudinal Drug Abuse Research, Summer Institute on Longitudinal Research, University of California, Los Angeles, CA.
- Collins, L. M., & Lanza, S. T.** (2006, June). *Introduction to latent class and latent transition analysis*. Presented at the Institute on Developmental Science, University Park, PA.
- Lanza, S. T.** (2006, May). *Latent transition analysis for modeling discrete change in longitudinal data*. Workshop presented at the Center for Advancing Longitudinal Drug Abuse Research, University of California, Los Angeles, CA.
- Lanza, S. T.** (2006, April). *Latent class and latent transition analysis for substance use research*. Workshop

presented at the Oregon Research Institute, Eugene, OR.

Lanza, S. T. (2005, October). *Multilevel modeling with HLM*. Workshop presented at the National Recreation and Park Association conference, San Antonio, TX.

Lanza, S. T. (2005, June). *Modeling drug-taking behavior in rats: Mixed models in application*. Workshop presented at the College on Problems of Drug Dependence conference, Orlando, FL.

Lanza, S. T. (2004, June). *An HLM workshop*. Workshop presented at the APA Advanced Training Institute on the Study of Early Child Care Data, Chapel Hill, NC. Also presented August, 2003 at the APA Advanced Training Institute on the Study of Early Child Care Data, Chapel Hill, NC.

Organized Sessions

Lanza, S. T., & MacKinnon, D. (2012, June). *New approaches to differential effects: Moving beyond traditional moderation using mixture models*. Symposium presented at the Society for Prevention Research Annual Meetings, Washington, DC.

Lanza, S. T. (2011, June). *Innovations in Latent Class Analysis: New Approaches to Address Classic Questions*. Organized session for the Annual Meeting of the Society for Prevention Research, Washington, DC.

Lanza, S. T. (2011, June). *Applications of Novel Methods for Analysis of Intensive Longitudinal Data in Studies on Drug Use*. Organized session for the Annual Meeting of the Society for Prevention Research, Washington, DC.

Lanza, S. T. (2008, May). *Advanced statistical modeling of sexual risk behavior over time*. Organized session for the Society for Prevention Research conference, San Francisco, CA.

Lanza, S. T. (2006, June). *Advances in latent class and latent transition analysis*. Session chair at the annual meeting of the Society for Prevention Research, San Antonio, TX.

International Conference Presentations

Potter, S. T., **Lanza, S. T.**, & Smyth, J. (2017, May). *Sociodemographic Patterns of Discrimination and Health Behaviors: Implications for Health Disparities*. Poster to be presented at the annual meeting of the Society for Prevention Research, Washington, D.C.

Rice, C. E., Vasilenko, S. A., Turner, A. N., Rosenberger, J. G., Davis, J. A., Fields, K. S., Ervin, M., & **Lanza, S. T. (2016, October). *"Gay Age": Is it associated with risky behavior among MSM?* Transforming Care: Midwest Conference on LGBTQ Health Equity and HIV/AIDS, Columbus, OH.

Rice, C. E., Vasilenko, S. A., Rosenberger, J. G., & **Lanza, S. T. (2016, September). *"Sexual Age" and Sexual Risk Behaviors among Men who have Sex with Men*. STD Prevention Conference, Atlanta, GA.

*Braymiller, J. L., Russell, M. A., & **Lanza, S. T.** (2016, May). *Adolescent e-cigarette use: Age-varying prevalence and association with traditional cigarette smoking*. Poster presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Dziak, J. J., Bray, B. C., Huang, L., Wagner, A. T., & **Lanza, S. T.** (2016, May). *SPR tech demo: Free software for data analysis and experimental design from the Penn State Methodology Center*. Technology demonstration presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T. (2016, May). *Using big data to inform healthcare utilization, surveillance, and prevention research*. Discussant presentation given at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Lanza, S. T., Vasilenko, S. A., & Russell, M. A. (2016, May). *Four definitions of "time" in time-varying effect modeling: Examples in marijuana use*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Patrick, M. E., Kloska, D. D., Vasilenko, S. A., & **Lanza, S. T.** (2016, May). *Perceived friends' use as a risk factor for marijuana use across young adulthood*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

*Rice, C. E., Vasilenko, S. A., **Lanza, S. T.**, Fields, K. S., Ervin, M., & Turner, A. N. (2016, May). *"Gay age" and recreational drug use among men who have sex with men*. Poster presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

Russell, M. A., *Braymiller, J. L., & **Lanza, S. T.** (2016, May). *Time-varying effect of risk-perception on cigarette use among high school seniors*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.

- *Evans-Polce, R. J., **Lanza**, S. T., & Maggs, J. L. (2016, March). *Social roles and excessive alcohol use across young adulthood*. Paper presented at the biannual meeting of the Society for Research on Adolescence.
- Russell, M. A., & **Lanza**, S. T. (2016, March). *Age-varying associations between witnessing violence, substance use, depression, and health from adolescence to young adulthood*. Paper presented at the biannual meeting of the Society for Research on Adolescence.
- Lanza**, S. T., Bray, B. C., & Dziak, J. J. (2015, May). *Comparing three approaches to latent class analysis with distal outcomes: A scientific summary*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- *Boone, M., Vasilenko, S. A., & **Lanza**, S. T. (2015, May). *Racial differences in the time-varying effect of age of sexual debut on sexual risk behavior*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- Bray, B. C., Dziak, J. J., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2015, May). *New online resources and software tools for analysis and design from the Penn State Methodology Center*. Technology demonstration presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- Bray, B. C., **Lanza**, S. T., & Coffman, D. L. (2015, May). *Estimating causal effects with latent class variables: Exposures and outcomes*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- Cook, J. A., Lanza, S. T., *Chu, W., Fiore, M., Baker, T., & Piper, M. (2015, May). *Time-varying treatment effects: The role of anhedonia in smoking quit attempts*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- Russell, M. A., & **Lanza**, S. T. (2015, May). *Violence exposure and adolescent substance use: Age-varying associations by gender*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- *Zhang, J., Dziak, J. J., Bray, B. C., **Lanza**, S. T., & Zhang, M. (2015, May). *Extending latent class analysis with distal outcomes: Recommendations for adding control variables and moderators*. Paper presented at the Society for Prevention Research 23rd Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- *Evans-Polce, R.J., Maggs, J., & **Lanza**, S.T. (2014, November). *Latent classes of substance use in college students: Hookah use, other tobacco products, marijuana, heavy drinking, and prescription drugs*. Paper to be presented at the 142nd American Public Health Association meeting, New Orleans, LA.
- Bray, B. C., Dziak, J. J., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2014, May). *Innovative software for prevention scientists: SAS, R, and STATA, tools for analysis and experimental design*. Technology demonstration presented at the Society for Prevention Research Annual Meeting, Washington, DC.
- *Evans-Polce, R.J., Vasilenko, S.A., & **Lanza**, S.T. (2014, May). Using time-varying effect modeling to examine differences in cigarette use, regular heavy episodic drinking, and marijuana use prevalence across age by gender and race/ethnicity. In Evans-Polce, R.J. (Chair), *A New Approach to Model the Etiology of Health Risk Behavior: Estimating Change over Historical Time, Developmental Time, and Time from an Event*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, D.C.
- Vasilenko, S. A., & **Lanza**, S. T. (2014, May). Using the time-varying effect model to examine changes in predictors of multiple sexual partners from adolescence through young adulthood. In Henneberger, A. K. (Chair), *Preventing risky behavior across development: Applying innovative longitudinal methods to strengthen prevention science*. Paper presented to the Society for Prevention Research, Washington, D.C.
- Vasilenko, S. A., **Lanza**, S. T., & Barber, J. S. (2014, May). Patterns of condom use over time in sexual partnerships. In Evans-Polce, R. J. (Chair), *A new approach to the etiology of health risk behaviors: Estimating change over historical time, developmental time, and time from an event*. Paper presented to the Society for Prevention Research, Washington, D.C.
- Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza**, S. T. (2013, December). *A Robust MPC Approach to the Design of Treatments*. Paper presented at the 52nd IEEE Conference on Decision and Control, Firenze, Italy.
- *Fairlie, A. M., **Lanza**, S. T., & Maggs, J. L. (2013, June). *Short-term stability and instability in drinking patterns among college students: A latent transition analysis*. Poster session presented at the annual meeting of the Research Society on Alcoholism, Orlando, FL.

- Bray, B. C., Huang, L., Yang, J., Dziak, J. J., & **Lanza**, S. T. (2013, May). *New SAS, R, and Stata software for prevention scientists: Tools for LCA, missing data, adaptive interventions, and EMA data*. Technology demonstration presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- *Butera, N. M., Bray B. C., & **Lanza**, S. T. (2013, May). Consequences of adolescent substance use latent class membership: Associations with young adult distal outcomes. Poster presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- Coffman, D. L., Bray, B. C., **Lanza**, S. T., & Dierker, L. C. (2013, May). *Estimating the causal effect of a latent class treatment on binary and count outcomes*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- *Fairlie, A. M., **Lanza**, S. T., & Maggs, J. L. (2013, May). *Do we adequately measure the alcohol-specific behavior of college students? Measurement implications from a latent class analysis*. In A. Fairlie (Chair), Extreme alcohol use: Prevalence, patterns, predictors, and consequences. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza**, S. T., Bray, B. C., Coffman, D. L. (2013, May). *The causal effect of substance use latent class membership on a distal outcome*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- Lanza**, S. T., Vasilenko, S., Butera, N. M., & Kugler, K. (2013, May). *A latent class approach to measuring adolescent sexual behavior*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- Cooper, B. R., & **Lanza**, S. T. (2013, April). *Using a multidimensional approach to identify for whom head start is most effective*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- *Parr, A. D., **Lanza**, S. T., & Factor, M. (2013, April). *Examination of Leadership Personality Profiles Using Latent Class Analysis*. Poster presented at the 28th annual meeting of the Society for Industrial and Organizational Psychology, Houston, TX.
- *Vasilenko, S. A., Kugler, K. C., Butera, N., & **Lanza**, S. T. (2013, April). *Patterns of Sexual Behavior in Adolescence: A Latent Class Approach*. Poster presented to the Society for Research in Child Development, Seattle, WA.
- Piper, M. E., Deiches, J. F., Baker, T. B., & **Lanza**, S. T. (2013, March). Early Lapses in a Cessation Attempt: Lapse Contexts, Cessation Success and Predictors of Early Lapse. Poster presented to the Society for Nicotine and Tobacco Research, Boston, MA.
- *Vasilenko, S. A., **Lanza**, S. T., Liu, X., Yang, J., Li, R. & Piper, M. E. (2013, March). Time-varying predictors of smoking after quit attempt: Application of a new approach to EMA data. Poster presented to the Society for Nicotine and Tobacco Research, Boston, MA.
- *Vasilenko, S. A., Liu, X., **Lanza**, S. T., Piper, M. E., & Li, R. (2012, June). *Smoking cessation fatigue in relapsers and successful quitters using a time-varying effects model*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Coffman, D. L., Williams, J. S., Xu, S., **Lanza**, S. T., & Birch, L. L. (2012, June). *Do mothers' eating behaviors cause daughters' dieting? Drawing causal inferences from the Early Dieting in Girls study*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Rhoades, B. L., & **Lanza**, S. T. (2012, June). *Who benefits most from Head Start? Using latent class moderation to examine differential treatment effects*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Cleveland, M. J., **Lanza**, S. T., Ray, A., Turrise, R., & Mallett, K. (2012, June). *Using latent transition analysis to assess differential treatment effects: Results from a randomized controlled trial of first-year college students*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Lanza**, S. T., Mathur, C., & Rhoades, B. L. (2012, June). *Mixture regression modeling to explore differential effects of risk factors for adolescent delinquency*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.

- *Butera, N., **Lanza, S. T.**, & Coffman, D. L. (2012, June). *Effect of early sexual debut on adolescent delinquency latent class membership*. Poster presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Bray, B., **Lanza, S.**, & Tan, X. (2011, June). *Classify-Analyze Approaches in Latent Class Analysis: The Importance of Inclusive Modeling*. Paper presented at the Annual Meeting of Society for Prevention Research, Washington, DC.
- Cleveland, M.J., **Lanza, S. T.**, Ray, A., Turrisi, R., & Mallett, K. (2011, June). *First-year college students' drinking patterns: Does drinking latent class membership moderate parent- and peer-based intervention components?* Poster presented at the 34th Annual Meeting of the Research Society on Alcoholism, Atlanta, GA.
- Dziak, J., Huang, L., Tan, S., **Lanza, S.**, Li, R., Collins, L., & Xu, S. (2011, June). *Software Advances from The Methodology Center at Penn State*. Technology demonstration presented at the Annual Meeting of the Society for Prevention Research in, Washington, DC.
- Dziak, J., **Lanza, S.**, & Li, R. (2011, June). *Sensitivity and Specificity of Information Criteria for Model Selection in Prevention and Psychology Datasets*. Poster presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Lanza, S.**, Coffman, D., Xu, S., & Almirall, D. (2011, June). *Causal Inference in Latent Class Analysis*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Lanza, S.**, Tan, X., & Li, R. (2011, June). *Joint Modeling of HIV Disease Course and Survival: Effects of Alcohol, Tobacco, and Drug Use*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Maldonado-Molina, M. M., Tan, X., **Lanza, S.**, & Wagenaar, A., (2011, June). *Effects of Beer Volume Tax on Alcohol-Related Mortality in 26 States from 1969 to 2004: An Application of a Varying Effects Model*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- *Mathur, C., Stigler, M. H., Erickson, D. J., **Lanza, S. T.**, Perry, C. L., Arora, M., & Reddy, K. S. (2011, June). *Socioeconomic differentials in stages of tobacco acquisition among adolescents in India*. Poster presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- *Shiyko, M., **Lanza, S.**, Tan, X., Shiffman, S., & Li, R. (2011, June). *Between-Group Differences in Temporal Dynamics of Negative Affect, Self-Confidence, and Smoking Urges in Short-Term Successful Quitters and Relapsers: Applications of the Model with Varying Effects (MOVE)*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Tan, X., **Lanza, S.**, & Bray, B., (2011, June). *Latent Class Analysis with a Distal Outcome: Traditional and New Approaches*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Moore, J. E., Coffman, D., & **Lanza, S. T.** (2011, March). *Drawing Causal Inferences Using Propensity Scores*. Paper presented at the Bi-Annual Meeting of the Society for Research on Child Development, Montreal, Canada.
- Collins, L. M., Dziak, J. J., Huang, L., **Lanza, S. T.**, Li, R., & Tan, X. (2010, June). *New development of statistical software for prevention research in The Methodology Center*. Technology demonstration presented at the Society for Prevention Research conference, Denver, CO.
- Lanza, S. T.**, & Rhoades, B. L. (2010, June). *Subgroup analysis from a latent variable perspective: Identifying latent classes of children at risk for adverse outcomes*. Paper presented at the Society for Prevention Research conference, Denver, CO.
- Rhoades, B. L. & **Lanza, S. T.** (2010, June). *Identifying subgroups of adolescents at risk for substance use: An application of latent class analysis*. Paper presented at the Society for Prevention Research conference, Denver, CO.
- Goodman, W. B., Crouter, A. C., **Lanza, S. T.**, Cox, M. J., & Vernon-Feagans, L. (2010, March). *Paternal work stress and father-infant parenting quality: A latent profile analysis*. Paper presented at the International Conference on Infant Studies, Baltimore, MD.
- Dziak, J. J., Min, Y., & **Lanza, S. T.** (2009, May). *Sample size requirements in latent class analysis: The power of the bootstrap test for detecting a class*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Maldonado, M. M., Komro, K. **Lanza, S. T.**, Altman, D., & Prado, G. (2009, May). *Ethnic differences in stages of recent drug use among inner-city early adolescents*. Poster presented at the Society for Prevention Research

- conference, Washington, D.C.
- *Min, Y., Dziak, J. J., & **Lanza**, S. T. (2009, May). *The effects of sample size and model characteristics on the accuracy of parameter and standard error estimation in latent class analysis*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- *Rhoades, B. L., **Lanza**, S. T., & Greenberg, M. T. (2009, May). *Latent classes of demographic and familial risk for early executive function deficits*. Paper presented at the Society for Prevention Research conference, Washington, D.C.
- Lanza**, S. T. (2008, May). *Using latent transition analysis to model transitions in dating and sexual risk behavior*. Paper presented at the Society for Prevention Research conference, San Francisco, CA.
- Lemmon, D., Bray, B. C., **Lanza**, S. T., & Dziak, J. J. (2008, May). *New developments in SAS procedures for prevention research*. Technology demonstration presented at the Society for Prevention Research conference, San Francisco, CA.
- Bray, B. C., **Lanza**, S. T., & Collins, L. M. (2007, May). *Modeling the longitudinal relation between adolescent drinking and smoking behavior*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Chung, H., **Lanza**, S. T., & Loken, E. (2007, May). *Latent transition analysis: Inference and estimation*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- *Rhoades, B. L., **Lanza**, S. T., Nix, R. L., Greenberg, M. T., & Conduct Problems Prevention Research Group (2007, May). *Identifying early risk profiles for behavior and academic problems in late childhood: An application of latent class analysis*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Maldonado, M. M., Prado, G., **Lanza**, S. T., Collins, L. M., & Canino, G. (2007, May). *Hispanic drug use: Patterns of substance use involvement among adolescents*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Root, T. L., Collins, L. M., **Lanza**, S. T., Lemmon, D., & Schafer, J. L. (2007, May). *Latent class analysis for small samples*. Poster presented at the Society for Prevention Science conference, Washington, D.C.
- Jung, H., Schafer, J. L., Ridenour, T., & **Lanza**, S. T. (2007, May). *Using latent class variables as predictors*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- *Rhoades, B. L., **Lanza**, S. T., Nix, R. L., Greenberg, M. T., & Conduct Problems Prevention Research Group (2007, March). *Profiles of early risk for externalizing problems and social competence in late childhood*. Poster presented at the Society for Research in Child Development conference, Boston, MA.
- Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., and The Family Life Project Key Investigators (2007, March). *Paternal work characteristics and the quality of father-infant interactions with low-income, rural families*. Paper presented at the Society for Research in Child Development conference, Boston, MA.
- Lemmon, D., & **Lanza**, S. T. (2006, June). *PROC LCA: A SAS procedure for latent class analysis*. Technology demonstration presented at the Society for Prevention Research conference, San Antonio, TX.
- Lanza**, S. T., Foster, E. M. (2005, June). *Using a behavioral problems checklist to assess risk of substance use: An IRT analysis of differential item functioning across gender*. Poster presented at the Society for Prevention Research conference, Washington, DC.
- Lanza**, S. T., & Collins, L. M. (2004, July). *Latent stage sequence analysis*. Paper presented at the Society for Multivariate Analysis in the Behavioral Sciences, Jena, Germany.
- Lanza**, S. T., Donny, E. C., & Balster, R. L. (2004, June). *The increasing regularity of rat nicotine self-administration during acquisition*. Poster presented at the College on Problems of Drug Dependence, San Juan, PR.
- Lanza**, S. T., Donny, E. C., Collins, L. M., & Balster, R. L. (2003, June). *Analyzing the acquisition of drug self-administration using growth curve models*. Poster presented at the College on Problems of Drug Dependence, Bal Harbor, FL.
- Donny, E. C., **Lanza**, S. T., Balster, R. L., Collins, L. M., Caggiula, A. R., & Rowell, P. (2003, June). *Using growth models to relate acquisition of nicotine self-administration to break point and nicotinic receptor binding*. Poster presented at the College on Problems of Drug Dependence, Bal Harbor, FL.
- Lanza**, S. T. (2003, April). *Exploring gender differences and change over time in subtypes of adolescent depression using latent class and latent transition analysis*. Paper presented at the Society for Research on Child

Development, Tampa, FL.

- Lanza, S. T., Collins, L. M., & Schafer, J. L.** (2001, June). *Model fit for incomplete categorical data: A substance use example*. Poster presented at the Society for Prevention Research conference, Washington DC.
- Feinberg, M., McHale, S., **Lanza, S.**, & Crouter, A. C. (2001, April). *Sibling and parent relationship trajectories: The search for nonshared environmental processes in the family*. Paper presented at the Society for Research on Child Development conference, Minneapolis, MN.
- Collins, L.M., Schafer, J.L., **Hyatt (Lanza), S.L.**, & Flaherty, B.P. (2000, July). *A demonstration of WinLTA*. Paper presented at the biennial meetings of the Society for Multivariate Applications in the Behavioral Sciences, London, England.
- Hyatt (Lanza), S. L., & Loken, E.** (2000, June). *Adolescent substance use risk profiles as latent classes*. Poster presented at the Society for Prevention Research conference, Montreal, Canada.
- Maldonado, M. M., **Hyatt (Lanza), S. L.**, & Collins, L. M. (2000, June). *Using latent transition analysis to test the gateway hypothesis of drug use onset in the Add Health data*. Poster presented at the Society for Prevention Research conference, Montreal, Canada.
- Collins, L. M., Schafer, J. L., **Hyatt (Lanza), S. L.**, & Flaherty, B. P. (1999, July). *Using data augmentation in latent class models for longitudinal data: Estimation, standard errors and hypothesis tests involving combinations of parameters*. Paper presented at the European Meetings of the Psychometric Society, Lueneberg, Germany.
- Hyatt (Lanza), S. L., & Collins, L. M.** (1999, June). *Pubertal timing and the stages of drug use*. Poster presented at the Society for Prevention Research conference, New Orleans, LA.
- Collins, L. M., **Hyatt (Lanza), S. L.**, Flaherty, B. P., Schafer, J. L., & Hames, K. (1999, June). *A demonstration of WinLTA 2.0*. Presented at the Annual Meetings of the Society for Prevention Research, New Orleans, LA.
- Hyatt (Lanza), S. L., Collins, L. M., Schafer, J., & Graham, J. W.** (1998, June). *Using data augmentation to get standard errors of parameter estimates in Latent Transition Analysis*. Poster presented at the Society for Prevention Research conference, Park City, UT.
- Hyatt (Lanza), S. L., Jacobs, J., Tanner, J. L., & Eccles, J.** (1998, April). *Explaining the decrease in adolescents' math and sports ability and interest: An example using Hierarchical Linear Modeling*. Poster presented at the Academic Educational Research Association conference, San Diego, CA.
- Hyatt (Lanza), S. L., & Collins, L. M.** (1998, February). *Substance use trajectories for adolescents with permissive parents: An example using Latent Transition Analysis*. Poster presented at the Society for Research on Adolescence conference, San Diego, CA.
- Jacobs, J. E. & **Hyatt (Lanza), S. L.** (1998, February). *My parents are too strict: Relations between parenting practices and adolescent decision making*. Poster presented at the Society for Research on Adolescence conference, San Diego, CA.
- Collins, L. M., **Hyatt (Lanza), S. L.**, & Graham, J. W. (1997, June). *LTA as a way of testing models of stage-sequential development in longitudinal data*. Presented at Practical Approaches to Longitudinal and Multi-Group Data, Max Plank Institute for Human Development, Berlin, Germany.
- Hyatt (Lanza), S. L., & Collins, L. M.** (1997, May). *Modeling advanced substance use using Latent Transition Analysis*. Poster presented at the Society for Prevention Research conference, Baltimore, MD.

National Conference Presentations

- Goodman, W. B., Crouter, A. C., **Lanza, S. T.**, Cox, M. J., Vernon-Feagans, L., & The Family Life Project Key Investigators (2007, November). *Paternal Work Experiences and Father-Infant Interactions: A Latent Class Analysis*. Paper presented at the National Council on Family Relations conference, Pittsburgh, PA.
- Dorius, C. J., Crouter, A. C., **Lanza, S. T.**, & Vernon-Feagans, L. (2006, November). *Maternal stimulation in low-income rural families: Does self-direction at work matter?* Paper presented at the National Council on Family Relations conference, Minneapolis, MN.
- Tanner, J. L., **Lanza, S. T.**, Reinherz, H. Z., & Leis, J. A. (2005, February). *Emerging adulthood: An era of well-being or risk for poor mental health?* Paper presented at the Conference on Emerging Adulthood, Miami, FL.
- Collins, L.M., Schafer, J.L., **Lanza, S.T.**, & Flaherty, B.P. (2001, January). *Latent transition analysis: Some new results using data augmentation*. Paper presented at the Quantitative Methods and Measurement Colloquium Series, University of California, Santa Barbara.

- Hyatt (Lanza), S. L., & Loken, E. (2000, August).** *Substance use risk types as latent classes.* Paper presented at the Add Health User's Workshop, Bethesda, MD.
- Loken, E., **Hyatt (Lanza), S. L., & Porfeli, E. (2000, June).** *Can coaching help students qualify as gifted?* Paper presented at the American Psychological Society conference, Miami, FL.
- Collins, L.M., **Hyatt (Lanza), S.L., & Flaherty, B.P. (1999, October).** *Latent transition analysis: A method for estimating and testing stage-sequential models in longitudinal contingency tables.* Presented at Measuring Change in Complex Social Systems: Best Practices and State-of-the-Art Developments for Measuring Change in Organizations, College Park, MD.
- Hyatt (Lanza), S. L., & Collins, L. M. (1999, July).** *Pubertal timing and the stages of drug use.* Paper presented at the Add Health User's Workshop, Bethesda, MD.
- Hyatt (Lanza), S. L., Collins, L. M., & Schafer, J. L. (1998, October).** *Gun availability and adolescent substance use: Using multiple imputation to get standard errors.* Poster presented at the New Methods for the Analysis of Change conference, University Park, PA.
- Collins, L. M., **Hyatt (Lanza), S. L., & Graham, J. W. (1998, February).** *Perceived parental permissiveness as a risk factor for substance use onset: An example of Latent Transition Analysis.* Presented at the Institute for Social Research, University of Michigan, Ann Arbor, MI. Also presented February, 1998 at the Population Research Institute, Pennsylvania State University.

Local Presentations

- Bray, B. C., Dziak, J. J., & **Lanza, S. T. (2015, March).** *The good, the bad, and the ugly: What we know today about latent class analysis with distal outcomes.* Poster presented at the College of Health and Human Development Annual Research Forum, Pennsylvania State University.
- *Xu, S., Coffman, D. L., Savage, J., **Lanza, S. L., & Birch, L. L. (2011, November).** *Do mothers' eating behaviors cause daughters' dieting? Drawing causal inferences from the Girls' Needs Study.* Poster presented at Penn State Hershey Diabetes & Obesity Institute Fall Research Poster Forum, Pennsylvania State University.
- Lanza, S. L., & Dziak, J. J. (2010, November).** *Sample size requirements for latent class analysis.* Paper presented at the Methodology Center seminar series, Pennsylvania State University.
- Hyatt (Lanza), S. L., & Collins, L. M. (1997, May).** *Modeling advanced substance use using Latent Transition Analysis.* Poster presented at the Graduate Research Exhibition, Pennsylvania State University.

Teaching and Mentoring Experience

Courses

- Spring 2016 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*
The Pennsylvania State University, Department of Biobehavioral Health
SRTE (scale of 1 to 7): Overall quality of instructor: 6.71, Overall quality of course: 6.83
- Spring 2015 Co-Instructor for graduate course: *Introduction to Time-Varying Effect Modeling*
The Pennsylvania State University, Department of Human Development and Family Studies
SRTE (scale of 1 to 7): Overall quality of instructor: 7.00, Overall quality of course: 7.00
- Fall 2013 Co-Instructor for graduate course: *New Methods for Analysis of Intensive Longitudinal Data*
The Pennsylvania State University, Department of Human Development and Family Studies
SRTE (scale of 1 to 7): Overall quality of instructor: 6.75, Overall quality of course: 6.25
- Spring 2011 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*
The Pennsylvania State University, Department of Human Development and Family Studies
SRTE (scale of 1 to 7): Overall quality of instructor: 6.17, Overall quality of course: 5.83
- Spring 2009 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*
The Pennsylvania State University, Department of Human Development and Family Studies
- Spring 2007 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*
The Pennsylvania State University, Department of Human Development and Family Studies
- Spring 2001 Teaching assistant for undergraduate course: *Empirical Inquiry in Human Development*
The Pennsylvania State University, Department of Human Development and Family Studies

- Fall 2000 Teaching assistant for graduate course: *Strategies for Data Analysis in Developmental Research*
The Pennsylvania State University, Department of Human Development and Family Studies
- Fall 1998, Teaching assistant for graduate course: *Measurement in Human Development*
Fall 2001 The Pennsylvania State University, Department of Human Development and Family Studies

Doctoral Advising (Dissertation Chair or Committee Member)

- 2016- Ki Eun Shin
The Pennsylvania State University, Department of Psychology
Chair: Michelle Newman
(Director of minor project)
- 2015- Jessica Braymiller
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Stephanie Lanza
- 2015- Danica Slavish
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Jennifer Graham-Engeland
- 2014- Tomorrow Wilson
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Linda Wray
- 2014- Sunghye (Jen) Cho
Title: *Parental Anxiety as an Environmental Context for Anxiety Symptom Development in Childhood*
The Pennsylvania State University, Department of Psychology
Chairs: Pamela Cole and Kristen Buss
- 2015-2016 Phylicia Bediako
The Pennsylvania State University, Department of Health Policy and Administration
Chair: Rhonda BeLue
- 2013-2015 Korkut Bekiroglu
Title: *From Data to Interventions: Using System Identification and Robust Control Algorithms to Design Effective Treatments*
The Pennsylvania State University, Department of Electrical Engineering
Chair: Constantino Lagoa
- 2013-2014 Jochebed Gayles
Title: *An Integrated Multidimensional Model of Individual Well-Being in Middle Adolescence*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Mark Greenberg
- 2013-2014 Hanyu Yang
Title: *Statistical Models for Scalar Response with Longitudinal Covariates*
The Pennsylvania State University, Department of Statistics
Chair: Runze Li
- 2013-2014 Xiaoyu Liu
Title: *Joint Modeling of Longitudinal and Survival Data: New Models, Computing Techniques, and Applications*
The Pennsylvania State University, Department of Statistics
Chair: Runze Li
- 2011-2014 Xiaotian Zhu
Title: *Non-Parametric Finite Multivariate Mixture Models with Applications*
The Pennsylvania State University, Department of Statistics
Chair: David Hunter
- 2011-2013 Alissa Parr
Title: *Proactive Followers with Leaders in Mind: Unraveling the Mystery Behind this Oxymoron*
The Pennsylvania State University, Department of Psychology
Chair: Sam Hunter
(Director of minor project)

- 2009-2013 Jeffrey Woo
 Title: *Optimization and Statistical Estimation for the Post Randomization Method*
 The Pennsylvania State University, Department of Statistics
 Chair: Aleksandra Slavković
- 2011-2012 Esra Kurum
 Title: *Joint Modeling of Longitudinal Binary and Continuous Responses: New Models, Statistical Procedures, and Applications*
 The Pennsylvania State University, Department of Statistics
 Chair: Runze Li
- 2009-2011 Patricia Grabarek
 Title: *Personality Typologies as Predictors of Effective Performance in Customer Service Jobs*
 The Pennsylvania State University, Department of Industrial/Organizational Psychology
 Chair: Alicia Grandey
 (Director of minor project)
- 2007-2009 Melissa Tibbits
 Title: *Engagement Within and Across Leisure Activities in Adolescence: Implications for Substance Use and Sexual Activity*
 The Pennsylvania State University, Department of Human Development and Family Studies
 Chairs: Ed Smith and Linda Caldwell
- 2006-2009 Brittany Rhoades
 Title: *Demographic and Familial Risks for Early Executive Function Development: Contributions of a Person Centered Perspective*
 The Pennsylvania State University, Department of Human Development and Family Studies
 Chairs: Mark Greenberg and Stephanie Lanza
- 2005-2008 Karen Auerbach
 Title: *Alcohol and Marijuana Use Across the Transition to Marriage: Group Differences and Psychosocial Factors*
 The Pennsylvania State University, Department of Human Development and Family Studies
 Chairs: Jennifer Maggs and D. Wayne Osgood
- 2005-2007 Bethany Bray
 Title: *Examining Gambling and Substance Use: Applications of Advanced Latent Class Modeling Techniques for Cross-Sectional and Longitudinal Data*
 The Pennsylvania State University, Department of Human Development and Family Studies
 Chair: Linda Collins
- 2003-2005 Mildred Maldonado-Molina
 Title: *The Gateway Hypothesis of Substance Use: An Operational Definition, Alternative Progression Patterns, and Methodological Challenges*
 The Pennsylvania State University, Department of Human Development and Family Studies
 Chair: Linda Collins

Candidacy Committee Member, Biobehavioral Health

- 2016- Jessica Braymiller (chair)
 2016- Bradley Hastings
 2016- Frank Materia

Methodology Mentor for NIH/NIDA Prevention and Methodology Training Program

- 2016- Jessica Braymiller, predoctoral fellow
 2016- Lindsay Potter, predoctoral fellow
 2014- Tomorrow Wilson, predoctoral fellow
 2013-2016 Rebecca Evans-Polce, postdoctoral fellow
 2014-2014 Phylcia Bediako, predoctoral fellow
 2014-2015 Melissa Boone Brown, postdoctoral fellow
 2014-2015 Michael Russell, postdoctoral fellow
 2012-2014 Annie Fairlie, postdoctoral fellow
 2011-2013 Sara Vasilenko, postdoctoral fellow
 2011-2012 Keri Jowers, postdoctoral fellow

2009-2011 Suellen Hopfer, postdoctoral fellow
2008-2010 Caitlin Abar, predoctoral fellow
2007-2009 Melissa Tibbits, predoctoral fellow
2005-2007 Bethany Bray, predoctoral fellow
2005-2007 Brittany Rhoades, predoctoral fellow

Other Mentoring Activities

Korkut Bekiroglu, Postdoctoral Researcher, The Methodology Center, The Pennsylvania State University
Role: Primary mentor (7/1/15-present)

Cara Rice, Postdoctoral Researcher, Biobehavioral Health, The Pennsylvania State University
Role: Primary mentor (9/1/15-present)

Sarah Dermody, Graduate fellow at Department of Psychology, University of Pittsburgh
Role: F31 mentor (9/1/13-8/31/15)

Maggie Holland, Ph.D., Assistant Professor at School of Nursing, University of Rochester
Role: KL2 mentor (7/1/12-6/30/15)

Micere Keels, Ph.D., Assistant Professor, Dept. of Comparative Human Development, University of Chicago
Role: Methodological Mentor, W. T. Grant Scholars Career Development Award (2012-2017)

Emily Tanner-Smith, Ph.D., Research Associate, Peabody Research Institute, Vanderbilt University
Role: Consultant on Institute of Education Sciences grant (5/1/12-4/30/14)

Jieting Zhang, Graduate student visiting Methodology Center
Role: Acting dissertation advisor (9/1/12-12/31/13)

Professional Service

Service to NIH

NIH Content Expert, Pathways to Prevention (P2P) workshop: *Strategies for Linking Youth Exposure to Preventive Interventions for Future Suicidal Behavior and Associated Morbidity and Mortality Outcomes* (2015, September).

Invited Talks at NIH-Organized Meetings (note: also listed above under Invited Talks and Workshops)

- Lanza, S. T. (2016, May). *Time as a key variable in health behavior research*. National Cancer Institute Workshop: Extending Methods in Dietary Patterns Research. Rockville, MD.
- Lanza, S. T. (2016, January). Time-varying effect modeling to study developmental and dynamic processes. NIH Office of Disease Prevention, Medicine: Mind the Gap lecture.
- Lanza, S. T. (2014, June). *Intensive longitudinal data to advance behavioral research: Data integration opportunities and challenges*. Presented at the Big Data to Knowledge (BD2K) Data Integration Meeting, Bethesda, MD.
- Lanza, S. T. (2008, December). *Data sharing requirements: The analyst's perspective*. Presented at the NIDA Crossroads: Sharing Social Environment and Genetic Data Meeting, Bethesda, MD.
- Lanza, S. T. (2008, July). *Methodological/statistical issues in grant proposal development*. Instructor at the NIH Addiction Research Training Institute: Leadership Development Workshop, Atlanta, GA.
- Lanza, S. T. (2008, July). *Modeling sexual risk behavior as a categorical latent variable*. Presented at the NIDA Sexual Acquisition and Transmission of HIV Cooperative Agreement program (SATH-CAP) Analytic Workgroup Meeting, Bethesda, MD.

NIH Grant Review

- "Accelerating the Pace of Drug Abuse Research Using Existing Epidemiology, Prevention, and Treatment Research Data" Review Council (6/2016)
- AIDS Research Review Committee (AIDS-RRC) Review Council (11/2014)
- "Seek, Test, Treat, and Retain Data Harmonization Coordinating Center" U01 (ZDA1 EXL T 13) Review Council (12/2013)
- "Accelerating the Pace of Drug Abuse Research Using Existing Epidemiology, Prevention, and Treatment Research Data" Review Council (6/2011)
- "SBIR Phase I Project – Improving Measures of Addiction Risk" Review Council (1/2011)
- Behavioral Genetics and Epidemiology (BGES) Study Section (6/2010)
- Cutting-Edge Basic Research Awards (CEBRA) Review Council (1/2008)

- Community Influences on Health Behavior (CIHB) Study Section (10/2005, 6/2006, 2/2007)

Conferences Organized

- 2016 Summer Institute on Innovative Methods, University Park, PA, July 21-22, 2016
Ecological Momentary Assessment (EMA): Investigating Biopsychosocial Processes in Context (presenters: Drs. Joshua Smyth, Kristin Heron, and Michael Russell)
- 2015 Summer Institute on Innovative Methods, Rockville, MD, June 11-12, 2015
Introduction to Time-Varying Effect Models (presenters: Dr. Stephanie Lanza and Dr. Sara Vasilenko)
- 2014 Summer Institute on Innovative Methods, Ann Arbor, MI, June 19-20, 2014
Experimental Design and Analysis Methods for Developing Adaptive Interventions: Getting SMART (presenters: Dr. Daniel Almirall and Dr. Inbal Nahum-Shani)
- 2013 The Future of HIV Prevention and Treatment: Integrating Innovative Methods with Intervention Science, Bethesda, MD, September 12-13, 2013 (primary presenters: Dr. Seth Kalichman, Dr. Rick Altice, Dr. Linda Collins, Dr. Daniel Almirall); co-funded by NIDA, OAR, OBSSR
- 2013 Summer Institute on Innovative Methods, The Pennsylvania State University, June 27-28, 2013
Introduction to Latent Class Analysis (presenters: Dr. Stephanie Lanza and Dr. Bethany Bray)
- 2012 Summer Institute on Innovative Methods, The Pennsylvania State University, June 20-21, 2012
Causal Inference using Propensity Scores (presenter: Dr. Donna Coffman)
- 2012 Preconference Workshop for Society for Research on Nicotine and Tobacco, Houston, TX, March 13, 2012 (Drs. Stephanie Lanza and Megan Piper, Co-Organizers)
New Methods for Advancing Research On Tobacco Dependence
- 2011 Summer Institute on Innovative Methods, Rockville, MD, September 8-9, 2011
The Multiphase Optimization Strategy (presenter: Dr. Linda Collins)
- 2010 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 7-9, 2010
Analysis of Longitudinal Dyadic Data (presenters: Dr. Niall Bolger, Dr. Jean-Philippe Laurenceau)
- 2009 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 29-July 1, 2009
Latent Class and Latent Transition Analysis (presenters: Dr. Linda Collins, Dr. Stephanie Lanza)
- 2008 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 2-4, 2008
Statistical Mediation Analysis (presenter: Dr. David Mackinnon)
- 2007 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 4-6, 2007
Mixed Models for Longitudinal Continuous and Dichotomous Data (presenter: Dr. Donald Hedeker)
Practical Tools for Causal Inference (presenter: Dr. Joseph Schafer)
- 2006 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 12-14, 2006
Causal Inference (presenter: Dr. Christopher Winship)

Service to the Profession

- 2015-present Member, Society for Prevention Research board of directors
- 2015-present Chair, Nominations Committee, Society for Prevention Research
- 2016 Program Committee Member, International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS)
- 2015-2016 Member, Society for Prevention Research awards committee
- 2012-2016 Associate Editor, *Prevention Science*
- 2014-2015 Planning Committee Member, Society for Ambulatory Assessments annual meeting
- 2015 Reviewer, Society for Prevention Science Early Career Preventionist Network (ECPN) poster contest
- 2013 Cambridge University Press [book proposal]
- 2010-2012 Editorial Board Member, *Prevention Science*
- 2005 Member, Methodology Planning Subcommittee for Society of Prevention Research annual meeting
- 2002-present Ad-hoc Reviewer: *Addiction, Alcoholism: Clinical and Experimental Research, American Journal of Public Health, Archives of Pediatrics & Adolescent Medicine, Criminology, Developmental Psychology, Drug and Alcohol Dependence, Journal of Adolescence, Journal of the Royal Statistical Society: Series A, Journal of Studies on Alcohol and Drugs, Multivariate Behavioral Research, Organizational Research Methods, Prevention Science, Psychological Methods, Psychology of Addictive Behaviors, Statistics and Medicine*

Service to The Pennsylvania State University

- 2016 Search Committee Member, Director of the Institute for Cyberscience (ICS)
2016 Chair, Health and Human Development Center Promotion Committee
2016- Co-chair, RCCI Communications and Onboarding Working Group
2016 Panel Member, Graduate Student Alumni Society Professional Development Workshop
2015-2016 Co-chair, RCCI Data Governance Working Group
2015- Advisory Council Member, Research Computing and Cyberinfrastructure (RCCI) Governance
2015- Internal Advisory Board Member, Population Research Institute's Computational and Spatial Analysis Core
2015- Member, Biobehavioral Health research committee
2015 Search Committee Member, ISS Helpdesk Supervisor
2015 Reviewer, Clinical and Translational Science Institute's Novel Approaches to Big Data RFA
2013-2014 Planning Council, College of Health and Human Development Strategic Planning
2008-2014 Member and HHD Representative, Graduate Student Alumni Society (GSAS) Board of Directors
2013, 2014 Search Committee Member, Director of the Edna Bennett Pierce Prevention Research Center
2010-2014 Presented Workshop: Lanza, S. T. *Landing that academic job: The art of giving a job talk*
 - October, 2014 at The Methodology Center seminar series, University Park, PA.
 - November, 2011 at the Graduate Student Association seminar series, University Park, PA
 - January, 2011 at The Methodology Center seminar series, University Park, PA.
 - March, 2011 at the Penn State Department of Adult Education, University Park, PA
 - November, 2010 at the Penn State Graduate Student Alumni Society Soft Skills Workshop Series, University Park, PA.
2011-2014 Member, The Methodology Center Green Team
2011 Search Committee Member, supervising teacher at Bennett Family Center
2010, 2011 Panel Member, *Giving Poster Presentations*. Workshop presented for the Penn State Graduate Student Association
2005-2009 Editor, The Methodology Center Perspective newsletter

Continuing Education

- 2014 Project Management: Skills for Success. Learning Tree International (Certification received)