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Education and Training

- 09/1989-06/1993 National Taiwan University
Bachelor of Science
- 09/1994-12/1999 Indiana University at Bloomington
Doctorate of Philosophy in Educational Psychology
Dissertation title: Analysis of Longitudinal Data with Missing Values
Advisor: David MacKay
- 09/1999-08/2003 University of Florida
Doctorate of Philosophy in Statistics
Dissertation title: Statistical Analysis of Rater Effects
Advisor: Malay Ghosh
- 09/1999-04/2002 Department of Clinical & Health Psychology at University of Florida
Postdoctoral training
Mentor: Alexandra Quittner

Certification and Licensure

- 08/1995 Certificate of Completion, training program on the use of National Center for Education Statistics (NCES) databases, U.S. Department of Education
- 04/2003 Certificate of Completion, training course on SAS Macro Language, SAS Institute
- 04/2003 Certificate of Completion, training course on SAS Macro Programming, SAS Institute
- 07/2010 Certificate of Completion, graduate summer session course on successful scientific writing, Department of Epidemiology, University of Michigan
- 02/2012 Certificate of Completion, Responsible Conduct of Research (RCR) for K Awardees Workshop, Michigan Institute for Clinical & Health Research (MICHR), University of Michigan.
- 10/2018 Certificate of Completion, American Heart Association Basic Life Support (CPR & AED) Program.

Academic, Administrative, and Clinical Appointments

09/2002-12/2003 Investigator
Frank Porter Graham Child Development Institute
University of North Carolina at Chapel Hill

07/2003-12/2003 Research Assistant Professor
Department of Psychology
University of North Carolina at Chapel Hill

09/2004-12/2004 Lecturer
Department of Statistics
University of Michigan at Ann Arbor

01/2005-08/2013 Director of Data Management & Study Statistician
Michigan Longitudinal Study
University of Michigan at Ann Arbor

01/2005-08/2008 Research Investigator
Addiction Research Center & Substance Abuse Section
Department of Psychiatry
University of Michigan at Ann Arbor

09/2008-07/2014 Research Assistant Professor
Addiction Research Center & Substance Abuse Section
Department of Psychiatry
University of Michigan at Ann Arbor

01/2012-06/2020 Faculty Affiliate
The Methodology Center
Pennsylvania State University

08/2014-05/2015 Tenure Track Associate Professor
Department of Epidemiology and Biostatistics
Indiana University-Bloomington

09/2015-04/2019 Tenure Track Associate Professor
Department of Health Behavior and Biological Sciences
University of Michigan at Ann Arbor

05/2019-08/2021 Tenure Track Associate Professor
Department of Health Promotion & Behavioral Sciences
Department of Biostatistics & Data Science
University of Texas Health Science Center at Houston

09/2021-present Tenured Professor
Department of Health Promotion & Behavioral Sciences
Department of Biostatistics & Data Science
University of Texas Health Science Center at Houston

Consulting Positions

01/2004-12/2004 Statistical Consultant
Neurology Department
University of North Carolina at Chapel Hill

Honors and Awards

12/1991 Fu Si-Nian Scholarship, National Taiwan University
04/2009 Research Scientist Development Award, National Institutes of Health
04/2019 Honored Instructor Award, University of Michigan

Research Interests

1. Substance use prevention and intervention
2. Developmental psychopathology & longitudinal analysis
3. Analysis of data from ecological momentary assessment (EMA) & wearable devices
4. Psychometrics
5. Bioinformatics

Active Grants

NIH/NIDA (R01 DA049154)

Title: Methodology and Measurement for Examining Short-term and Long-term Effects of E-cigarette and Polysubstance Use

Role: Contact Principal Investigator (MPI: Hsien-Chang Lin)

Funding period: 08/2019-12/2024 (\$2,562,946)

NIH/NHLBI (K01 HL166439)

Title: Exploring longitudinal and momentary effects of internalizing behaviors and family functioning in the development of obesity in Hispanic adolescents

Role: Mentor (PI: Alejandra Fernandez)

Funding period: 09/2023-08/2028

Completed Grants

NIH/NIDA (R01 DA035183)

Title: Measurement and Methodology for Daily Patterns of Drug Use and Related Behaviors

Role: Principal Investigator

Funding period: 07/2013-09/2018 (\$2,575,884)

NIH/NIAAA (K01 AA016591)

Title: New Statistical Methodology to Establish Construct Validity for Childhood Risk

Role: Principal Investigator

Funding period: 04/2009-08/2014 (\$791,249)

NIH/NINR (R01 NR016123)

Title: Measuring Approaches to Partnership Success (MAPS)

Role: Co-Investigator (MPI's: Barbara Brush, Barbara Israel, & Laurie Lachance)

Funding period: 08/2016-05/2021 (\$2,856,253)

NIH/NIAAA (T32 AA007477)

Title: Multidisciplinary Alcoholism Research Training Program
Role: Mentor (PI: Frederic Blow)
Funding period: 07/2016-06/2020

NIH/NIDA (R01 DA035811)
Title: Intergenerational Transmission of Drug Use in an Urban Sample
Role: Co-Investigator (PI: Marc Zimmerman)
Funding period: 09/2013-06/2018 (\$3,282,226)

NIH/NICHD (R01 HD062565)
Title: Youth Empowerment Solutions for Positive Youth Development
Role: Co-Investigator (PI: Marc Zimmerman)
Funding period: 09/2010-07/2016 (\$3,183,711)

NIH/NIAAA (R37 AA07065)
Title: Family Study of Risk for Alcoholism Over the Life Course
Role: Co-Investigator (PI: Robert Zucker)
Funding period: 02/2003-07/2013

Pending Grants

NIH/NIDA (R01)
Title: Developing an objective measure of real-world e-cigarette use and a prediction model for momentary risk of vaping
Role: Contact Principal Investigator (MPI: James Yang)
Submission date: 6/2024

NIH/NIEHS (R01)
Title: Understanding pediatric health risks of secondhand aerosol exposure: a real-world study of the impact of adult e-cigarette use
Role: Contact Principal Investigator (MPI: Wei-Chung Su)
Submission date: 2/2024

NIH/NCI (R34)
Title: Harnessing technology to engage young adults in vaping cessation treatment: developing a just-in-time adaptive intervention
Role: Contact Principal Investigator (MPI: Megan Piper)
Submission date: 10/2023

NIH/NCI (R01)
Title: A remote randomized controlled trial of e-cigarette cessation for young adults
Role: Mentor & Co-Investigator (PI: Emily Hébert Arsers)
Submission date: 10/2022
Resubmission date: 7/2023

Bibliography (*Correspondence/senior authorship; †Student/trainee authorship)

Publications on Mental Health or Substance Use in Peer-Reviewed Journals

1. Quittner, A. L. & **Buu**, A. (2002). Effects of tobramycin solution for inhalation on global ratings of quality of life in patients with cystic fibrosis and pseudomonas aeruginosa infection. *Pediatric Pulmonology*, *33*, 269-276.
2. Quittner, A. L., **Buu**, A., Messer, M. A., Modi, A. C., & Watrous, M. (2005). Development and validation of the Cystic Fibrosis Questionnaire (CFQ) in the United States: a health-related quality of life measure for cystic fibrosis. *Chest*, *128*, 2347-2354.
3. Greenwood, R. S., Tupler, L. A., Whitt, J. K., **Buu**, A., Dombeck, C. B., Harp, A. G., Payne, M. E., Eastwood, J. D., Krishnan, K. R. R., & MacFall, J. R. (2005). Brain morphometry, T₂-weighted hyperintensities, and IQ in children with neurofibromatosis type 1. *Archives of Neurology*, *62*, 1904-1908.
4. Glass, J. M., Adams, K. M., Nigg, J. T., Wong, M. M., Puttler, L. I., **Buu**, A., Jester, J. M., Fitzgerald, H. E., & Zucker, R. A. (2006). Smoking is associated with neurocognitive deficits in alcoholism. *Drug and Alcohol Dependence*, *82*, 119-126. PMID: PMC2261373
5. ***Buu**, A., Mansour, M., Wang, J., Refior, S.K., Fitzgerald, H.E., & Zucker, R.A. (2007). Alcoholism effects on social migration and neighborhood effects on alcoholism over the course of 12 years. *Alcoholism: Clinical and Experimental Research*, *31*, 1545-1551. PMID: PMC2464456
6. Jester, J.M., Nigg, J.T., **Buu**, A., Puttler, L.I., Glass, J.M., Heitzeg, M.M., Fitzgerald, H.E., Zucker, R.A. (2008). Trajectories of childhood aggression and inattention/hyperactivity: Differential effects on substance abuse in adolescence. *Journal of the American Academy of Child and Adolescent Psychiatry*, *47*, 1158-1165. PMID: PMC2783202
7. Glass, J.M., **Buu**, A., Adams, K.M., Nigg, J.T., Puttler, L.I., Jester, J.M., & Zucker, R.A. (2009). Effects of alcoholism severity and smoking on executive neurocognitive function. *Addiction*, *104*, 38-48. PMID: PMC2734473
8. Martel, M.M., Pierce, L., Nigg, J.T., Jester, J.M., Adams, K., Puttler, L.I., **Buu**, A., Fitzgerald, H., & Zucker, R.A. (2009). Temperament pathways to childhood disruptive behavior and adolescent substance abuse: testing a cascade model. *Journal of Abnormal Child Psychology*, *37*, 363-373. PMID: PMC2659729
9. ***Buu**, A., DiPiazza, C., Wang, J., Puttler, L.I., Fitzgerald, H.E., & Zucker, R.A. (2009). Parent, family, and neighborhood effects on the development of child substance use and other psychopathology from preschool to the start of adulthood. *Journal of Studies on Alcohol and Drugs*, *70*, 489-498. PMID: PMC2696289
10. ***Buu**, A., Wang, W., Wang, J., Puttler, L.I., Fitzgerald, H.E., & Zucker, R.A. (2011). Changes in women's alcoholic, antisocial, and depressive symptomatology over 12 years: a multilevel network of individual, familial, and neighborhood influences. *Development and Psychopathology*, *23*, 325-337. PMID: PMC3075809
11. ***Buu**, A., Wang, W., Schroder, S.A., Kalaida, N.L., Puttler, L.I., & Zucker, R.A. (2012). Developmental emergence of alcohol use disorder symptoms and their potential as early indicators for progression to alcohol dependence in a high risk sample: a longitudinal study from childhood to early adulthood. *Journal of Abnormal Psychology*, *121*, 897-908. PMID: PMC3560403

12. ***Buu**, A., Li, R., Walton, M.A., Yang, H., Zimmerman, M.A., & Cunningham, R.M. (2014). Changes in substance use-related health risk behaviors on the timeline follow-back interview as a function of length of recall period. *Substance Use & Misuse*, *49*, 1259-1269. PMID: PMC4077947
13. ***Buu**, A., Dabrowska, A., Mygrants, M., Puttler, L.I., Jester, J.M., & Zucker, R.A. (2014). Gender differences in the developmental risk for onset of alcohol, nicotine, and marijuana use and the effects of nicotine and marijuana use on alcohol outcomes. *Journal of Studies on Alcohol and Drugs*, *75*, 850-858. PMID: PMC4161704
14. Jester, J.M., Wong, M.M., Cranford, J.A., **Buu**, A., Fitzgerald, H.E., & Zucker, R.A. (2015). Alcohol expectancies in childhood: change with the onset of drinking and ability to predict adolescent drunkenness and binge drinking. *Addiction*, *110*, 71-79. PMID: PMC4594954
15. ***Buu**, A., Dabrowska, A., Heinze, J.E., Hsieh, H., & Zimmerman, M.A. (2015). Gender differences in the developmental trajectories of multiple substance use and the effect of nicotine and marijuana use on heavy drinking in a high risk sample. *Addictive Behaviors*, *50*, 6-12. PMID: PMC4515377
16. Jester, J.M., **Buu**, A., & Zucker, R.A. (2016). Longitudinal phenotypes for alcoholism: heterogeneity of course, early identifiers, and life course correlates. *Development and Psychopathology*, *28*, 1531-1546. PMID: PMC5091665
17. Lin, H.C., Jester, J.M., & ***Buu**, A. (2016). The relationships of cigarette and alcohol use with the initiation, reinitiation, and persistence of cannabis use. *Journal of Studies on Alcohol and Drugs*, *77*, 113-120.
18. †Arterberry, B., Horbal, S.R., **Buu**, A., & Lin, H.C. (2016). The effects of alcohol, cannabis, and cigarette use on the initiation, reinitiation and persistence of non-medical use of opioids, sedatives, and tranquilizers in adults. *Drug and Alcohol Dependence*, *159*, 86-92.
19. Walton, M.A., Epstein-Ngo, Q., Carter, P.M., Zimmerman, M.A., Blow, F.C., **Buu**, A., Goldstick, J., & Cunningham, R.M. (2017). Marijuana use trajectories among drug-using youth presenting to an urban emergency department: violence and social influences. *Drug and Alcohol Dependence*, *173*, 117-125. PMID: PMC5366264
20. ***Buu**, A., Hu, Y.H., Pampati, S., Arterberry, B.J., & Lin, H.C. (2017). Predictive validity of cannabis consumption measures: results from a national longitudinal study. *Addictive Behaviors*, *73*, 36-40. PMID: PMC5508534
21. ***Buu**, A., Massey, L.S., Walton, M.A., Cranford, J.A., Zimmerman, M.A., & Cunningham, R.M. (2017). Assessment methods and schedules for collecting daily process data on substance use related health behaviors: a randomized control study. *Drug and Alcohol Dependence*, *178*, 159-164. PMID: PMC5548619
22. Hsieh, H.F., Heinze, J.E., Lang, I., Mistry, R., **Buu**, A., & Zimmerman, M.A. (2017). Violence victimization, social support, and papanicolaou smear outcomes: a longitudinal study from adolescence to young adulthood. *Journal of Women's Health*, *26*, 1340-1349. PMID: PMC5733666
23. †Pampati, S., **Buu**, A., Hu, Y.H., de Leon, C.M., & Lin, H.C. (2018). Effects of alcohol and cigarette use on the initiation, reinitiation, and persistence of cannabis use from adolescence to emerging adulthood. *Addictive Behaviors*, *79*, 144-150.
24. ***Buu**, A., Hu, Y.H., Piper, M.E., & Lin, H.C. (2018). The association between e-cigarette use characteristics and combustible cigarette consumption and dependence

- symptoms: results from a national longitudinal study. *Addictive Behaviors*, 84, 69-74. PMID: PMC5975121
25. †Wong, S.W., Lin, H.C., Piper, M.E., Siddiqui, A., & *Buu, A. (2019). Measuring characteristics of e-cigarette consumption among college students. *Journal of American College Health*, 67, 338-347. PMID: PMC6320724
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 27. Carter, P.M., Cranford, J.A., Buu, A., Walton, M.A., Zimmerman, M.A., Goldstick, J.G., Epstein-Ngo, Q., & Cunningham, R.M. (2020). Daily patterns of substance use and violence among a high-risk urban emerging adult sample: results from the Flint Youth Injury Study. *Addictive Behaviors*, 101, 106127. PMID: PMC6999833
 28. *Buu, A., Yang, S., Li, R., Zimmerman, M.A., Cunningham, R.M., & Walton, M.A. (2020). Examining measurement reactivity in daily diary data on substance use: results from a randomized experiment. *Addictive Behaviors*, 102, 106198. PMID: PMC6934919
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 30. †Wu, W.C., Hsieh, H.F., Chang, H., Lin, H.C., & *Buu, A. (2020). Aggressive-depressive trajectories in childhood and their association with drinking behaviors and problems in adolescence and emerging adulthood. *Journal of Youth and Adolescence*, 49, 1897-1912.
 31. Heinze, J.E., Hsieh, H.F., Aiyer, S.M., Buu, A., & Zimmerman, M.A. (2020). Adolescent family conflict as a predictor of relationship quality in emerging adulthood. *Family Relations*, 69, 996-1011.
 32. *Buu, A., Hu, Y.H., Wong, S.W., & Lin, H.C. (2021). Internalizing and externalizing problems as risk factors for initiation and progression of e-cigarette and combustible cigarette use in the U.S. youth population. *International Journal of Mental Health and Addiction*, 19, 1759-1771.
 33. *Buu, A., Cai, Z., Li, R., Wong, S.W., Lin, H.C., Su, W.C., Jorenby, D.E., & Piper, M.E. (2021). The association between short-term emotion dynamics and cigarette dependence: a comprehensive examination of dynamic measures. *Drug and Alcohol Dependence*, 218, 108341. PMID: PMC7750263
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 35. †Wang, Z., Lohrmann, D.K., Buu, A., & Lin, H.C. (2021). Resilience as a mediator between adverse childhood experiences and prescription opioid misuse among U.S. adults. *Substance Use & Misuse*, 56, 484-492.
 36. *Buu, A., Cai, Z., Li, R., Wong, S.W., Lin, H.C., Su, W.C., Jorenby, D.E., & Piper, M.E. (2021). Validating e-cigarette dependence scales based on dynamic patterns of vaping behaviors. *Nicotine & Tobacco Research*, 23, 1484-1489. PMID: PMC8500184
 37. Hsieh, H.F., Heinze, J.E., Caruso, E., Scott, B.A., West, B.T., Mistry, R., Eisman, A.B., Assari, S., Buu, A., & Zimmerman, M.A. (2022). The protective effects of social support

- on hypertension among African Americans exposed to violence. *Journal of Interpersonal Violence*, 37(9-10), NP7202-NP7224.
38. Yang, J.J., Wang, Z., Trucco, E.M., **Buu**, A., Lin, H.C. (2022). Chronic pain and delinquency partially explain the effect of the DRD4 gene polymorphism on adult substance use. *American Journal of Drug and Alcohol Abuse*, 48, 235-244.
 39. Luo, X., Yang, J.J., **Buu**, A., Trucco, E.M., & Li, C.-S. R. (2022). Alcohol and cannabis co-use and longitudinal gray matter volumetric changes in early and late adolescence. *Addiction Biology*, 27, e13208. PMID: PMC9413216
 40. Hsieh, H.F., Wu, W.C., Córdova, D., Heinze, J.E., Pomerantz, N., **Buu**, A., & Zimmerman, M.A. (2022). The intergenerational transmission of family conflict on children's aggression: the compensatory effect of positive parenting. *Journal of Interpersonal Violence*, 37(21-22), NP20769-NP20792.
 41. Yang, J.J., Lin, H.C., Ou, T.S., Tong, Z., Li, R., Piper, M.E., & ***Buu**, A. (2022). The situational contexts and subjective effects of co-use of electronic cigarettes and alcohol among college students: an ecological momentary assessment (EMA) study. *Drug and Alcohol Dependence*, 239, 109594. PMID: PMC10232334
 42. ***Buu**, A., Nam, J.K., Yang, M., Su, W.C., & Lin, H.C. (2022). Home e-cigarette rules and youth's vulnerability to initiate and sustain e-cigarette use. *Preventive Medicine*, 164, 107334. PMID: PMC9704116
 43. ***Buu**, A., Tong, Z., Cai, Z., Li, R., Yang, J.J., Jorenby, D.E., & Piper, M.E. (2023). Subtypes of dual users of combustible and electronic cigarettes: longitudinal changes in product use and dependence symptomatology. *Nicotine & Tobacco Research*, 25, 438-443. PMID: PMC9910154
 44. ***Buu**, A., Yang, J.J., Ou, T.S., Nam, J.K., Suh, G., & Lin, H.C. (2023). An ecological momentary assessment study to examine covariates and effects of concurrent and simultaneous use of electronic cigarettes and marijuana among college students. *Addictive Behaviors*, 141, 107662. PMID: PMC10226867
 45. †Nam, J.K., Zatliff, J.P., Wong, S.W., Lin, H.C., Su, W.C., & ***Buu**, A. (2023). An exploratory study on strategies adopted by parents who use e-cigarettes to negotiate risk perceptions of their children's secondhand exposure and parental role modeling. *International Journal of Mental Health and Addiction*. <https://doi.org/10.1007/s11469-023-01075-1> PMID: PMC10184636
 46. Yang, J.J., Ou, T.S., Lin, H.C., Nam, J.K., Piper, M.E., & ***Buu**, A. (2023). Retrospective and real-time measures of the quantity of e-cigarette use: an ecological momentary assessment study. *Nicotine & Tobacco Research*, 25, 1667-1675. PMID: PMC10445250
 47. †Nam, J.K., Piper, M.E., Tong, Z., Li, R., Yang, J.J., Jorenby, D.E., & ***Buu**, A. (2023). Dependence motives and use contexts that predicted smoking cessation and vaping cessation: a two-year longitudinal study with 13 waves. *Drug and Alcohol Dependence*, 250, 110871. PMID: PMC10623667
 48. Ou, T.S., **Buu**, A., Yang, J.J., & Lin, H.C. (2024). E-cigarette use reasons and associated e-cigarette use dependence among college students: A longitudinal examination. *Addictive Behaviors*, 155, 108039. PMID: PMC11088494

Publications on Health Policy or Environmental Health in Peer-Reviewed Journals

49. Lin, H.C., Wang, Z., Boyd, C., Simoni-Wastila, L., & ***Buu**, A. (2018). Associations between statewide prescription drug monitoring program (PDMP) requirement and physician patterns of prescribing opioid analgesics for patients with non-cancer chronic pain. *Addictive Behaviors*, 76, 348-354.
50. Lin, H.C., Wang, Z., Simoni-Wastila, L., Boyd, C., & ***Buu**, A. (2019). Interstate data sharing of prescription drug monitoring programs and associated opioid prescriptions among patients with non-cancer chronic pain. *Preventive Medicine*, 118, 59-65.
51. †Wong, S.W., **Buu**, A., & Lin, H.C. (2020). State medical marijuana laws and associated marijuana use, attitude, and perceived social norms among adolescents in the U.S. *Journal of Psychoactive Drugs*, 52, 383-392.
52. Su, W.C., Wong, S.W., & ***Buu**, A. (2021). Deposition of e-cigarette aerosol in human airways through passive vaping. *Indoor Air*, 31, 348-356. PMID: PMC7904647
53. Su, W.C., Lin, Y.H., Wong, S.W., Chen, J.Y., Lee, J., & ***Buu**, A. (2021). Estimation of the dose of electronic cigarette chemicals deposited in human airways through passive vaping. *Journal of Exposure Science and Environmental Epidemiology*, 31, 1008-1016. PMID: PMC8595527
54. Lin, H.C., Wang, Z., Hu, Y.H., Simon, K., & ***Buu**, A. (2022). Characteristics of statewide prescription drug monitoring programs and potentially inappropriate opioid prescribing to patients with non-cancer chronic pain: a machine learning application. *Preventive Medicine*, 161, 107116. PMID: PMC9307080
55. Lin, H.C., **Buu**, A., & Su, W.C. (2022). Disposable e-cigarettes and associated health risks: an experimental study. *International Journal of Environmental Research and Public Health*, 19, 10633. PMID: PMC9518067
56. Su, W.C., Lee, J., Zhang, K., Wong, S.W., & ***Buu**, A. (2023). Estimation of health risks caused by metals contained in e-cigarette aerosol through passive vaping. *Toxics*, 11, 684.

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57. Zoppe, A., **Buu**, Y. A., & Flury, B. (2001). Parameter estimation under constraints for multivariate normal distributions with incomplete data. *Journal of Educational and Behavioral Statistics*, 26, 219-232.
58. ***Buu**, A., Johnson, N.J., Li, R., & Tan, X. (2011). New variable selection methods for zero-inflated count data with applications to the substance abuse field. *Statistics in Medicine*, 30, 2326-2340. PMID: PMC3133860
59. ***Buu**, A., Li, R., Tan, X., & Zucker, R.A. (2012). Statistical models for longitudinal zero-inflated count data with applications to the substance abuse field. *Statistics in Medicine*, 31, 4074-4086. PMID: PMC3505239
60. Yang, J.J., Li, J., **Buu**, A., & Williams, L.K. (2013). Efficient inference of local ancestry. *Bioinformatics*, 29, 2750-2756. PMID: PMC3799480
61. Dziak, J.J., Li, R., Zimmerman, M.A., & ***Buu**, A. (2014). Time-varying effect models for ordinal responses with applications in substance abuse research. *Statistics in Medicine*, 33, 5126-5137. PMID: PMC4227951
62. †Yang, H., Cranford, J.A., 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. PMID: PMC4314391

63. †Yang, H., Li, R., Zucker, R.A., & *Buu, A. (2016). Two-stage model for time-varying effects of zero-inflated count longitudinal covariates with applications in health behavior research. *Journal of the Royal Statistical Society: Series C*, 65, 431-444. PMID: PMC4812831
64. †Yang, G., Yu, Y., Li, R., & *Buu, A. (2016). Feature selection in ultrahigh dimensional Cox's model. *Statistica Sinica*, 26, 881-901. PMID: PMC4939909
65. Yang, J.J., Li, J., Williams, L.K. & *Buu, A. (2016). An efficient genome-wide association test for multivariate phenotypes based on the Fisher combination function. *BMC Bioinformatics*, 17:19. doi: 10.1186/s12859-015-0868-6. PMID: PMC4704475
66. †Yang, S., Cranford, J.A., Jester, J.M., Li, R., Zucker, R.A., & *Buu, A. (2017). A time-varying effect model for examining group differences in trajectories of zero-inflated count outcomes with applications in substance abuse research. *Statistics in Medicine*, 36, 827-837. PMID: PMC5242179
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68. Yang, J.J., Williams, L.K., & *Buu, A. (2017). Identifying pleiotropic genes in genome-wide association studies from related subjects using the linear mixed model and Fisher combination function. *BMC Bioinformatics*, 18:376. doi: 10.1186/s12859-017-1791-9. PMID: PMC5571642
69. †Yang, S., Cranford, J.A., Li, R., Zucker, R.A., & *Buu, A. (2017). A time-varying effect model for studying gender differences in health behavior. *Statistical Methods in Medical Research*, 26, 2812-2820. PMID: PMC4860169
70. *Buu, A., Williams, L.K., & Yang, J.J. (2018). An efficient genome-wide association test for mixed binary and continuous phenotypes with applications to substance abuse research. *Statistical Methods in Medical Research*, 27, 905-919. PMID: PMC6812509
71. Yang, J.J., Trucco, E.M., & *Buu, A. (2019). A hybrid method of the sequential Monte Carlo and the Edgeworth expansion for computation of very small p-values in permutation tests. *Statistical Methods in Medical Research*, 28, 2937-2951. PMID: PMC6360137
72. †Liu, W., Li, R., Zimmerman, M.A., Walton, M.A., Cunningham, R.M., & *Buu, A. (2019). Statistical methods for evaluating the correlation between timeline follow-back data and daily process data with applications to research on alcohol and marijuana use. *Addictive Behaviors (Special Issue: Improving the Implementation of Quantitative Methods in Addiction Research)*, 94, 147-155. PMID: PMC6544482
73. Yang, J.J., Luo, X., Trucco, E.M., & *Buu, A. (2022). Polygenic risk prediction based on singular value decomposition with applications to alcohol use disorder. *BMC Bioinformatics*, 23:28. <https://doi.org/10.1186/s12859-022-04566-5> PMID: PMC8744290
74. Yang, J.J., Kuo, J., Su, W.C., Jorenby, D.E., Piper, M.E., & *Buu, A. (2022). A new statistical model for longitudinal ecological momentary assessment data on dual use of electronic and combustible cigarettes. *American Journal of Drug and Alcohol Abuse (Methods in Addiction Research Section)*, 48, 529-537. PMID: PMC10201566

75. Yang, J.J., Piper, M.E., Indic, P. & ***Buu**, A. (2024). Statistical methods for predicting e-cigarette use events based on beat-to-beat (BBI) data collected from wearable devices. *Statistics in Medicine*, 43, 3227-3238. PMID: PMC11250691
76. Yang, J.J. & ***Buu**, A. (2024). Efficient matrix profile computation with Euclidean distance using eigen transformation: performance evaluation based on beat-to-beat interval (BBI) data. *Statistics in Medicine*, 43, 3051-3061.
77. Yang, J.J. & ***Buu**, A. (2024). Adaptive sequential singular spectrum analysis: effective signal extraction with an application to heart rate signals related to e-cigarette use. *Data Science in Science*, 3, 2383770.

Manuscripts under Review or Revised & Resubmitted

78. Ou, T.S., **Buu**, A., Yang, J.J., & Lin, H.C. (revised & resubmitted). A longitudinal examination of the association between e-cigarette use contexts and alcohol use problems among college students. *Journal of American College Health*.
79. †Nam, J.K., Yang, J.J., Ran, S., Piper, M.E., & ***Buu**, A. (under review). Bidirectional relationships between sleep quality and nicotine vaping: studying young adult e-cigarette users in real time and real life.
80. Yang, J.J. & ***Buu**, A. (under review). Enhancing singular spectrum analysis: automated parameter selection for optimal time series reconstruction.
81. †Ran, S., Yang, J.J., Piper, M.E., Lin, H.C., & ***Buu**, A. (under review). Health risks associated with adopting new-generation disposable products among young adults who use e-cigarettes.
82. Yang, J.J. & ***Buu**, A. (under review). An innovative method of singular spectrum analysis to conduct gap-filling and denoising on time series data.
83. †Zhao, P., Yang, J.J., & ***Buu**, A. (under review). Applied statistical methods for identifying features of heart rate that are associated with nicotine vaping.

Book Chapters and Measurement or Software Manuals

1. Quittner, A.L., **Buu**, A., Watrous, M., & Davis, M.A. (2000). *Cystic fibrosis questionnaire: a health-related quality of life measure. User manual English version 1.0*. Washington, D. C.: Cystic Fibrosis Foundation.
2. Yang, J.J., Li, J., & **Buu**, A. (2013). *R Package EILA: Efficient Inference of Local Ancestry*. <https://CRAN.R-project.org/package=EILA>
3. Dziak, J., Tan, X., Li, R., & **Buu**, A. (2013). *Ordinal Tvem Macro*. <http://methodology.psu.edu/OrdinalTvemPropOdds>
4. **Buu**, A. & Li, R. (2018). New statistical methods inspired by data collected from alcohol and substance abuse research. In H. Fitzgerald & L. Puttler (Eds.), *Alcohol Use Disorders: A Developmental Science Approach to Etiology* (Chapter 21, pp. 354-365). New York, NY: Oxford University Press.
5. Yang J.J. & **Buu**, A. (2018). R Package FisherCombinationStat: Multivariate Test Using Fisher Combination Statistic. <https://github.com/jyangstat/FisherCombinationStat>

Invited Presentations

- *Assessing rater agreement using distance function approach*. Invited talk, Statistics Department, University of Michigan, Ann Arbor, Michigan, March 2004.

- *Using childhood risk to predict adolescent substance use development: the methodological challenges.* Invited talk, Methodology Center Seminar, Pennsylvania State University, State College, PA, November 2005.
- *Statistical models for longitudinal zero-inflated count data with applications to the substance abuse field.* Invited talk, The Second Institute of Mathematical Statistics Asia Pacific Rim Meeting, Tsukuba, Japan, July 2012.
- *New measurement and methodology for daily patterns of drug use and related risk behaviors.* Junior faculty presentation, Department of Psychiatry Grand Rounds, University of Michigan, Ann Arbor, MI, January 2013.
- *Longitudinal models for daily patterns of substance use.* Invited talk, Institute of Mathematical Statistics China Meeting, Chengdu, China, July 2013.
- *Evaluating compliance, reactivity, and validity of measurements for daily patterns of health risk behaviors.* Invited talk, The Addiction Research Center Research Seminar, University of Michigan, Ann Arbor, MI, October 2013.
- *Innovative approaches for measuring and analyzing daily patterns of health risk behaviors.* Invited talk, Epidemiology and Biostatistics Department Seminar, Indiana University, Bloomington, IN, March 2014.
- *Innovative approaches for measuring and analyzing daily patterns of health risk behaviors.* Invited talk, Joint Colloquium of Psychology and Statistics Departments, Iowa State University, Ames, IA, April 2014.
- *Innovative approaches for measuring and analyzing daily patterns of health risk behaviors.* Invited talk, Psychology Department Seminar, National Taiwan University, Taipei, Taiwan, June 2014.
- *Health communication technology and statistical methodology for studying daily process of substance use, violence, and HIV risk sexual behaviors.* Invited talk, School of Nursing Seminar, University of Michigan, Ann Arbor, MI, February 2015.
- *Health communication technology and statistical methodology for studying daily process of substance use, violence, and HIV risk sexual behaviors.* Invited talk, Department of Health Behavior Seminar, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC, March 2015.
- *Measurement and methodology for real-time assessment of electronic cigarette use in natural settings.* Invited talk, Methodology Center, Pennsylvania State University, State College, PA, March 2017.
- *Developmental psychopathology of alcohol use disorder from childhood to adulthood: results from the Michigan Longitudinal Study.* Invited talk, Department of Human Development and Family Science, University of Georgia, Athens, GA, January 2018.
- *Measuring substance use related behaviors in real-time and natural environment: my journey to NIH funding.* Invited talk, School of Public Health, University of Texas, Dallas, TX, February 2018.
- *Genetic and phenotypic pathways to opioid misuse.* Invited talk, Methodology Center, Pennsylvania State University, State College, PA, September 2018.
- *Statistical methods for characterizing changes in health behaviors.* Invited talk, Department of Epidemiology and Biostatistics, Temple University, Philadelphia, PA, November 2018.

- *Measurement and methodology for characterizing health behaviors in real time.* Invited talk, Department of Preventive Medicine, University of Southern California, Los Angeles, CA, December 2018.
- *My journey to successful methodology funding from National Institutes of Health: vaping research.* Invited talk, Adult and Child Center for Health Outcomes Research and Delivery Science (ACCORDS), University of Colorado, Aurora, CO, September 2021.
- *Pursuing my passion for addiction research: characterizing substance use in real time & real life.* Invited talk, Rutgers Addiction Research Center, Rutgers University, New Brunswick, NJ, February 2023.
- *Ecological momentary assessment and substance use research.* Invited talk, Department of Community Health and Health Behavior, University at Buffalo, Buffalo, NY, April 2023.
- *Statistical methods for predicting e-cigarette use events based on beat-to-beat interval (BBI) data collected from wearable devices.* Oral paper presentation in the session of Digital Interventions for Tobacco Cessation, The 2024 Society for Research on Nicotine & Tobacco (SRNT) Annual Meeting, Edinburgh, Scotland, UK, March 2024.
- *Bidirectional relationships between sleep quality and nicotine vaping: a real-time and real-life study using smartphones and smartwatches.* Oral paper presentation in the session of Bio-Beacons: Illuminating Drug Use With Biosensors, The 2024 College on Problems of Drug Dependence (CPDD) Annual Meeting, Montreal, Canada, June 2024.

Teaching

Classroom Teaching

07/2003-12/2003	Taught PSYC30-Statistical Principles of Psychological Research (UNC)
09/2004-12/2004	Taught STATS350-Introduction to Statistics and Data Analysis & STATS100-Introduction to Statistical Reasoning (UM)
08/2014-12/2014	Taught SPH-Q602: Multivariate Statistical Analysis (IU)
08/2014-12/2014	Guest lectured SPH-E794: Doctoral Seminar in Epidemiology (IU)
01/2015-05/2015	Taught SPH-Q502: Intermediate Statistics in Public Health (IU)
01/2015-05/2015	Initiated new courses: SPH-Q605: Analysis of Multi-level and Longitudinal Data (IU)
09/2015-04/2019	Taught HS 550: Scientific Methods for Health Sciences: Fundamentals (UM)
01/2018-04/2019	Taught HS 853: Scientific Methods for Health Sciences: Special Topics (UM)
01/2019-04/2019	Taught NURS 218: Applied Statistics (UM)
01/2020-	Guest lecture PHM 1433: Seminar in Health Promotion & Behavioral Sciences (UTHealth)
01/2020-	Guest lecture PH 1988: Biostatistics Seminar (UTHealth)
08/2020-	Teach PH 1323L: Applied Methods for Longitudinal and Ecological Momentary Assessment (EMA) Data (UTHealth)
08/2020-	Teach PH 1410: Addiction and Society (UTHealth)
01/2021-	Teach PH 9997: Practicum (UTHealth)
08/2022-	Teach PHM 9998: Independent Integrative Learning Experience (UTHealth)
01/2023-05/2023	Teach PHD 1421L: Quantitative Analysis for Behavioral Sciences (UTHealth)

01/2023- Teach PHD 9999: Dissertation Research (UTHealth)

Mentoring

01/2006-07/2014 Guest lectured and supervised field work for PSYCH371-Advanced Laboratory in Psychopathology (UM)
Hannah Wolfson, Marjorie Mygrants

05/2006-present Mentored Master's in Public Health (MPH) students (UM/UTHealth)
MaryAnn Mansour, Wei Wang, Agata Dabrowska, Sanjana Pampati, Adam Siddiqui, Emily Pendleton, Tyler Swate, Fernanda Contreras, M. Brayden Bowie, Vivian Nguyen, Abida Anwar, Olive Pertuit, Amaya Acosta

01/2007-04/2011 Supervised independent study PSYCH327/423 (UM)
Natalia Kalaida, Cydney DiPiazza, Robin Lane, Lindsay Gladysz, Brent Nier, Emily Shipman, Jillian Rosati, Stephanie Schroder, Sarah Mohr, Sarah Cravens

09/2008-04/2009 Mentored honors thesis (UM)
Avanti Jangalapalli

09/2008-04/2009 Mentored Undergraduate Research Opportunity Program (UM)
Iman Maiza, Conor Frederick

06/2012-present Mentor Ph.D. students in Statistics (PSU)
Hanyu Yang, Wanjun Liu, Songshan Yang, Zhanrui Cai, Zhaoxue Tong

09/2012-present Mentor post-doctoral fellows (UM/UTHealth)
Elisa Trucco, Brooke Arterberry, Su-Wei Wong

08/2014-present Mentor Ph.D. students in Public Health (IU/UTHealth)
Steven Horbal, Yi-Han Hu, Zhi Wang, Su-Wei Wong, Joon Kyung Nam, Rebecca Molsberry, Tzung-Shiang Ou, Meng Yang, Eugenia Lee

09/2016-present Serve Ph.D. Dissertation Committee (UM/IU/UTHealth)
Seoyoon Woo (Role: Member; Chair: Janet Larson)
Zhi Wang (Role: Member; Chair: Hsien-Chang Lin)
Joon Kyung Nam (Role: Chair)
Rebecca Molsberry (Role: Biostatistics Minor Advisor; Chair: Katelyn Jetelina)
Eugenia Lee (Role: Method Breadth Representative; Chair: Kymberle Sterling)
Tracy Evans (Role: Biostatistics & Behavioral Science; Chair: Dorothy Kim Waller)
Jennifer Thompson (Role: Biostatistics & Behavioral Science; Chair: Alex Testa)
Michelle Pennington (Role: Biostatistics & Behavioral Science; Chair: Alex Testa)

08/2019-present Serve Master's thesis Committee (UTHealth)
Natascha del Vecchio (Role: Member; Chair: Kayo Fujimoto)

Workshop

09/1999-04/2002 Conducted weekly data management and analysis workshops for clinical psychology students (UF)

01/2005-04/2011 Conducted weekly data management and analysis workshops for the Data Management Unit of Michigan Longitudinal Study (UM)

09/2010-04/2011 Conducted a series of scientific writing workshops for the Data Management Unit of Michigan Longitudinal Study (UM)

09/2015-12/2016 Coordinate a series of statistical workshops for U of M School of Nursing faculty & Ph.D. students:

1. Overview of Statistical Methods for Nursing Research (Chris Liu; January, 2016)
2. Sequential, Multiple Assignment, Randomized Trial (Billie Nahum-Shani & Daniel Almirall; February, 2016)

3. Causal Inference for Observational Data (Olga Yakusheva; March, 2016)
 4. National Health Surveys (Matthew Davis; October, 2016)
 5. Big Data Analytics (Ivo Dinov; November, 2016)
- 01/2018 Conducted a workshop entitled “Multi-level modeling in child development and family science” at University of Georgia.
- 04/2023 Conducted a workshop entitled “First class of addiction: terminology, epidemiology, and comorbidity” at University at Buffalo.

Memberships in Professional Societies

- 01/1996-12/2000 Member, American Educational Research Association
- 01/2001-present Member, American Statistical Association (ASA)
- 01/2005-12/2023 Member, Research Society on Alcoholism (RSA)
- 08/2009-12/2014 Member, International Biometric Society
- 01/2012-12/2019 Member, American Psychological Association
- 01/2015-12/2020 Member, Institute of Mathematical Statistics
- 01/2018-present Member, Society for Research on Nicotine & Tobacco (SRNT)
- 07/2020-06/2024 Standing Member, Addiction Risks and Mechanisms (ARM) Study Section
Center for Scientific Review, National Institutes of Health
- 09/2023-present Member, College on Problems of Drug Dependence (CPDD)
- 10/2023-present Associate Editor, Editorial Board at Nicotine & Tobacco Research
- 01/2024-present Co-Chair, PhenX Medical Cannabis Use, Polysubstance Use, and Recovery
Working Group, National Institutes of Health
- 06/2024-present Member, Program Committee, CPDD

Organizer or Chair at Conferences or Symposia

- *Recent advances on statistical methods for analyzing longitudinal data and their applications.* Organizer of an open competition invited talk session, Institute of Mathematical Statistics China Meeting, Chengdu, China, July 2013.
- *Recent advances in genetic data analysis.* Chair of an open competition invited talk session, Institute of Mathematical Statistics China Meeting, Chengdu, China, July 2013.
- *Advanced statistical methods for genetic data analysis.* Organizer of an invited paper session, The Third Institute of Mathematical Statistics Asia Pacific Rim Meeting, Taipei, Taiwan, July 2014.
- *New statistical methods for genetic data analysis.* Organizer of a topic-contributed paper session, The Fourth Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong, China, June 2016.
- *Advanced methodology for genetic data analysis.* Organizer & Chair of a topic-contributed paper session, 2016 Joint Statistical Meetings, Chicago, IL, July 2016.
- *New statistical methodology for genetic data analysis.* Organizer & Chair of an invited session in statistics, The 2017 IMS-China International Conference on Statistics and Probability, Nanning, Guangxi, China, June 2017.

- *Advanced methods for genetic data analysis*. Organizer & Chair of an invited talk session. The 2018 International Chinese Statistical Association China Conference with the Focus on Data Science, Qingdao, Shandong, China, July 2018.
- *New statistical methods for longitudinal data analysis*. Organizer of a topic-contributed session, 2020 Joint Statistical Meetings, virtual conference, August 2020.
- *Bio-Beacons: Illuminating Drug Use With Biosensors*. Co-Chair of an oral session, The 2024 College on Problems of Drug Dependence (CPDD) Annual Meeting, Montreal, Canada, June 2024.

Grant Review Service (01/2012-present)

- Addiction Risks and Mechanisms Study Section [ARM], NIH (Oct 2016; Feb 2017; Feb 2018; Oct 2018)
- Risk, Prevention and Health Behavior [RPHB], Integrated Review Group, Special Emphasis Panel, NIH (Nov 2019)
- Injury Center Pilot Grant, University of Michigan
- Indiana Clinical and Translational Science Institute Pilot Grant, Indiana University
- PRIME-Funding for Preliminary Studies for New Investigators, University of Texas Health Science Center

Manuscript Review Service (01/2005-present)

- *Addiction*
- *Addictive Behaviors*
- *Alcoholism: Clinical and Experimental Research*
- *American Journal of Public Health*
- *Biometrics*
- *Computational Statistics*
- *Drug and Alcohol Dependence*
- *JAMA Oncology*
- *JAMA Psychiatry*
- *Journal of Abnormal Psychology*
- *Journal of Studies on Alcohol and Drugs*
- *Journal of the Royal Statistical Society*
- *Nicotine & Tobacco Research*
- *Pediatrics*
- *Prevention Science*
- *Psychology of Addictive Behaviors*
- *Psychological Methods*
- *Statistical Methods in Medical Research*
- *Statistics in Medicine*
- *Substance Use & Misuse*

Committee, Organizational, and Volunteer Service

International Service

- 10/2023-present Associate Editor
Editorial Board
Nicotine & Tobacco Research
- 06/2024-present Member
Program Committee
The College on Problems of Drug Dependence (CPDD)

National Service

- 07/2020-06/2024 Standing Member
Addiction Risks and Mechanisms Study Section
Center for Scientific Review
National Institutes of Health
- 01/2024-present Co-Chair
Medical Cannabis Use, Polysubstance Use, and Recovery Working Group
PhenX Toolkit (consensus measures for **Phen**otypes and **eX**posures)
National Institute on Drug Abuse (NIDA)

School-Level Service

- 08/2014-05/2015 Selection Committee for School of Public Health Alumni Awards
Indiana University-Bloomington
- 01/2015-05/2015 MPH Leadership Committee, School of Public Health
Indiana University-Bloomington
- 01/2015-05/2015 School of Public Health Scholarship Selection Committee
Indiana University-Bloomington
- 09/2015-04/2019 Chair of the Analytics Methods for Science & Practice Group
School of Nursing
University of Michigan at Ann Arbor
- 09/2016-04/2019 Mock Reviewer for Nursing Faculty's NIH Proposals
University of Michigan at Ann Arbor
- 09/2016-04/2019 Interviewer for National Clinician Scholars Program
School of Nursing
University of Michigan at Ann Arbor
- 09/2018-04/2019 Member of the Undergraduate Curriculum Evaluation Group
School of Nursing
University of Michigan at Ann Arbor
- 01/2018-01/2019 Mentor of Fulbright Visiting Scholar
School of Public Health
University of Michigan at Ann Arbor
Wen-Chi Wu
- 07/2019-08/2019 Leader of the Review Committee for PRIME Awards
University of Texas School of Public Health
- 07/2019-present Mock Reviewer for Public Health Faculty's NIH Proposals
UTHealth
- 01/2020-08/2022 Member of the Faculty Council, School of Public Health, UTHealth

- 01/2020-present Member of the Faculty Mentoring Workgroup
School of Public Health, UTHealth
- 07/2019-present Mentor of junior faculty, School of Public Health, UTHealth
Wei-Chung Su, Michael Wilkerson, Emily Hébert Arsers, Alejandra Fernandez,
Dale Mantey

Department-Level Service

- 09/2004-12/2004 Marshalls Committee
Department of Statistics
University of Michigan at Ann Arbor
- 01/2015-05/2015 Coordinator of the Grant Writing Discussion Group
Department of Epidemiology and Biostatistics
Indiana University-Bloomington
- 01/2015-05/2015 MPH/PhD Student Admission Committee
Department of Epidemiology and Biostatistics
Indiana University-Bloomington
- 10/2019-present Member of the Data Safety and Monitoring Board
Randomized Trial of a Data-Driven Technical Assistance System for
Drug Prevention Coalitions (R01 DA045815; MPI: Louis Brown & Sarah
Chilenski)
- 10/2019-01/2020 Member of the Three-Year Review Committee of Dr. Wei-Chung Su,
Department of Epidemiology, Human Genetics, and Environmental
Sciences, UTHealth
- 09/2019-05/2020 Co-Chair of the Working Group for Drug Abuse Research Using Existing
Databases, Department of Biostatistics & Data Science, UTHealth
- 06/2019-present Member of the Working Group for Quantitative Method Courses &
Certificate, Department of Health Promotion & Behavioral Sciences,
UTHealth
- 07/2020-present Grader of the doctoral preliminary exam, Department of Health Promotion
& Behavioral Sciences, UTHealth
- 10/2020-01/2021 Chair of the Three-Year Review Committee of Dr. Casey Durand,
Department of Health Promotion & Behavioral Sciences, UTHealth
- 01/2022-present Member of the HPBS Admission Committee
- 05/2022-present Member of the HPBS Student Scholarship Committee