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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.
- 10/2025 Artificial Intelligence (AI) Training Program, University of Texas Health Science Center at Houston: Fundamental Information, Application in

Teaching and Education, Application for Clinical Practice, Application in Research (12 hours).

## **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. Digital health
3. Analysis of data from ecological momentary assessment (EMA) & wearable devices
4. Developmental psychopathology & longitudinal studies
5. Psychometrics

## Pending Grants

### NIH/NIDA (R01)

Title: Understanding how use perception, cannabis use, and sleep influence nicotine vaping patterns among young adults: A mixed method study with intensive subjective and wearable sensor data collection

Role: Principal Investigator

Submission date: 2/2025

Resubmission date: 11/2025

### NIH/NIDA (R21)

Title: Delivering personalized intervention messages to young adults who are motivated to quit vaping nicotine based on wearable sensor data: statistical methodology development and a feasibility study

Role: Principal Investigator

Submission date: 10/2025

### NIH/NIDA (R01)

Title: Understanding the effects of nicotine vaping alone versus co-use with cannabis in young adults in different cannabis legalization environments

Role: Principal Investigator

Submission date: 10/2024

Resubmission date: 7/2025

### NIH/NIMH (R01)

Title: Framework for standardizing and analyzing multimodal data from distributed wearable sensors in mental health research

Role: Contact Principal Investigator (MPI's: James Yang, Premananda Indic)

Submission date: 6/2025

## **Active Grants**

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

Texas Child Mental Health Care Consortium (TCMHC)

Title: Investigating real-time antecedents of approach and avoidance behaviors in anxious youth

Role: Mentor & Co-Investigator (PI: Kevin Wagner)

Funding period: 09/2025-08/2027

## **Completed 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/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/NICHHD (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/NIAAAA (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

## **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, T<sub>2</sub>-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
26. \***Buu**, A., Hu, Y.H., Wong, S.W., & Lin, H.C. (2020). Comparing American college and noncollege young adults on e-cigarette use patterns including polysubstance use and reasons for using e-cigarettes. *Journal of American College Health*, *68*, 610-616.
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
29. Trucco, E.M., Yang, S., Yang, J.J., Zucker, R.A., Li, R., & \***Buu**, A. (2020). Time-varying effects of GABRG1 and maladaptive peer behavior on externalizing behavior from childhood to adulthood: testing gene x environment x development effects. *Journal of Youth and Adolescence*, *49*, 1351-1364. PMID: PMC7260088
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
34. †Wang, Z., **Buu**, A., Lohrmann, D.K., Shih, P.C., & Lin, H.C. (2021). The role of family conflict in mediating impulsivity to early substance exposure among preteens. *Addictive Behaviors*, 115, 106779.
  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. PMID: PMC10834025
  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. 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
  46. †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
47. 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
  48. †Nam, J.K., Zatlhoff, J.P., Wong, S.W., Lin, H.C., Su, W.C., & \***Buu**, A. (2025). 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*, 23, 207-218. PMID: PMC10184636
  49. Ou, T.S., **Buu**, A., Yang, J.J., & Lin, H.C. (in press). A longitudinal study of the association between e-cigarette use contexts and alcohol use problems among college students. *Journal of American College Health*. PMID: PMC12059144
  50. †Nam, J.K., Yang, J.J., Ran, S., Piper, M.E., & \***Buu**, A. (2025). Bidirectional relationships between sleep quality and nicotine vaping: studying young adult e-cigarette users in real time and real life. *Nicotine & Tobacco Research*, 27, 1534-1540.
  51. Piper, M.E., Kaye, J.T., Piasecki, T.M., Yang, J.J., & \***Buu**, A. (2025). Cannabis use among adults who smoke tobacco: Relations with switching from combusted cigarettes to e-cigarettes or very low nicotine cigarettes. *Drug and Alcohol Dependence*, 275, 112821.

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

52. 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.
53. 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.
54. †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.
55. 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
56. 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
57. 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
58. 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

59. 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. PMID: PMC10459233
60. †Ran, S., Yang, J.J., Piper, M.E., Lin, H.C., & \***Buu**, A. (2024). Health risks associated with adopting new-generation disposable products among young adults who use e-cigarettes. *International Journal of Environmental Research and Public Health*, *21*, 1375. PMID: PMC11507342

#### Publications on Statistical Methodology in Peer-Reviewed Journals

61. 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.
62. \***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
63. \***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
64. Yang, J.J., Li, J., **Buu**, A., & Williams, L.K. (2013). Efficient inference of local ancestry. *Bioinformatics*, *29*, 2750-2756. PMID: PMC3799480
65. 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
66. †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
67. †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
68. †Yang, G., Yu, Y., Li, R., & \***Buu**, A. (2016). Feature selection in ultrahigh dimensional Cox's model. *Statistica Sinica*, *26*, 881-901. PMID: PMC4939909
69. 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
70. †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
71. Yang, J.J., Williams, L.K., & \***Buu**, A. (2017). Identifying pleiotropic genes in genome-wide association studies for multivariate phenotypes with mixed measurement scales. *PLoS ONE*, *12*(1): e0169893. doi: 10.1371/journal.pone.0169893. PMID: PMC5231271
72. 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
73. †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
  74. \*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
  75. 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
  76. †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
  77. 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
  78. 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
  79. 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
  80. 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. PMID: PMC11260257
  81. 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. PMID: PMC12064174
  82. †Zhao, P., Yang, J.J., & \*Buu, A. (2025). Applied statistical methods for identifying features of heart rate that are associated with nicotine vaping. *American Journal of Drug and Alcohol Abuse (Methods in Addiction Research Section)*, 51, 165-172. PMID: PMC11999780
  83. Yang, J.J. & \*Buu, A. (2025). An innovative method of singular spectrum analysis to conduct gap-filling and denoising on time series data. *Journal of Data Science*, 1-13. doi:10.6339/25-JDS1164 PMID: PMC12439824
  84. Yang, J.J. & \*Buu, A. (2025). Automated parameter selection in singular spectrum analysis for time series analysis. *Communications in Statistics - Simulation and Computation*, 1–14. <https://doi.org/10.1080/03610918.2025.2456575>

Manuscripts under Review or Revised & Resubmitted

85. †Zhao, P., **Buu**, A., & Yang, J.J. (under review). New statistical methods for predicting personalized momentary probability of vaping behavior using heart rate data from wearable devices.
86. \***Buu**, A., Thrul, J., Bunting, A., Haegerich, T., Huggins, W., Hopfer, C., Vidot, D., Ives, C., McNeil, R., Zemore, S., Vilsaint, C., Fallon, E., Hill, C., Hamilton, C., & Kelly, J. (under review). Enhancing data compatibility in an evolving landscape: Medical cannabis and polysubstance use protocols in the PhenX Toolkit.
87. †Zhao, P., **Buu**, A., & Yang, J.J. (under review). Detection of vaping event via linear mixed harmonic regression on heart rate.

### 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 1323: 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 1421: Quantitative Analysis for Behavioral Sciences (UTHealth)
01/2023-	Teach PHD 9999: Dissertation Research (UTHealth)
08/2025-	Teach PHM 1110: Health Promotion and Behavioral Sciences in Public Health (UTHealth)
01/2026-	Teach PHD 1435: Health Promotion and Behavioral Sciences Doctoral/Post-Doctoral Research Seminar

### 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, Nkemasom Nwadei, Saicharitha Kalvakota
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)

06/2012-present	Iman Maiza, Conor Frederick Mentor Ph.D. students in Statistics/Biostatistics (PSU/UTHealth) Hanyu Yang, Wanjun Liu, Songshan Yang, Zhanrui Cai, Zhaoxue Tong, Puyang Zhao
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, Shuyao Ran, Tracy Evans, Jennifer Thompson, Michelle Pennington
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: Jack Tsai) 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) Puyang Zhao (Role: Behavioral Science; Chair: James Yang)
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: <ol style="list-style-type: none"> <li>1. Overview of Statistical Methods for Nursing Research (Chris Liu; January, 2016)</li> <li>2. Sequential, Multiple Assignment, Randomized Trial (Billie Nahum-Shani &amp; Daniel Almirall; February, 2016)</li> <li>3. Causal Inference for Observational Data (Olga Yakusheva; March, 2016)</li> <li>4. National Health Surveys (Matthew Davis; October, 2016)</li> <li>5. Big Data Analytics (Ivo Dinov; November, 2016)</li> </ol>
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
01/2024-07/2025	Co-Chair, PhenX Substance Use and Recovery Working Group, National Institutes of Health
06/2024-present	Member, Program Committee, CPDD

## Organizer or Chair at Conferences or Symposiums

- *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<br>Editorial Board<br>Nicotine & Tobacco Research               |
| 06/2024-present | Member<br>Program Committee<br>The College on Problems of Drug Dependence (CPDD) |

#### National Service

- |                 |  |
|-----------------|--|
| 07/2020-06/2024 | Standing Member<br>Addiction Risks and Mechanisms Study Section<br>Center for Scientific Review<br>National Institutes of Health |
| 01/2024-07/2025 | Co-Chair   |

Substance 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

03/2025-present Mentor of junior faculty, Menninger Department of Psychiatry & Behavioral  
Sciences, Baylor College of Medicine  
Kevin Wagner

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