Yuh-Pey Anne Buu, Ph.D., Ph.D.

Professor

Department of Health Promotion & Behavioral Sciences
Department of Biostatistics & Data Science
University of Texas Health Science Center
7000 Fannin St., Suite 2516

Houston, TX 77030 Yuh-Pey.A.Buu@uth.tmc.edu Phone: 713-500-9762

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
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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: 08/2019-06/2024 (\$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/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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: PMC2696289
- *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. PMCID: PMC3075809
- *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. PMCID: PMC3560403
- *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. PMCID: PMC4077947
- ***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. PMCID: 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. PMCID: PMC4594954
- *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. PMCID: 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. PMCID: 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.
- †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. PMCID: 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. PMCID: PMC5508534
- *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. PMCID: 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. PMCID: 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.
- ***Buu**, A., Hu, Y.H., Piper, M.E., & Lin, H.C. (2018). The association between ecigarette use characteristics and combustible cigarette consumption and dependence symptoms: results from a national longitudinal study. *Addictive Behaviors*, *84*, 69-74. PMCID: PMC5975121
- †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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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.
- ***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.
- *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. PMCID: PMC7750263
- [†]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. PMCID: 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. PMCID: 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. PMCID: PMC10232334
- *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. PMCID: 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. PMCID: PMC9910154
- *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. PMCID: PMC10226867
- †Nam, J.K., Zatloff, 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 PMCID: PMC10184636
- 46. Yang, J.J., Ou, T.S., Lin, H.C., Nam, J.K., Piper, M.E., & *Buu, A. (in press). Retrospective and real-time measures of the quantity of e-cigarette use: an ecological momentary assessment study. *Nicotine & Tobacco Research*.
- †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.

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

- 48. 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.
- 49. 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.

- 50. †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.
- 51. 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. PMCID: PMC7904647
- 52. 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. PMCID: PMC8595527
- 53. 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. PMCID: PMC9307080
- 54. 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. PMCID: PMC9518067
- 55. 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.

<u>Publications on Statistical Methodology in Peer-Reviewed Journals</u>

- 56. 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.
- 57. *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. PMCID: PMC3133860
- 58. *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. PMCID: PMC3505239
- 59. Yang, J.J., Li, J., **Buu**, A., & Williams, L.K. (2013). Efficient inference of local ancestry. *Bioinformatics*, *29*, 2750-2756. PMCID: PMC3799480
- 60. 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. PMCID: PMC4227951
- †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. PMCID: PMC4314391
- †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. PMCID: PMC4812831
- †Yang, G., Yu, Y., Li, R., & ***Buu**, A. (2016). Feature selection in ultrahigh dimensional Cox's model. *Statistica Sinica*, *26*, 881-901. PMCID: PMC4939909

- 64. 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. PMCID: PMC4704475
- †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. PMCID: PMC5242179
- 66. 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. PMCID: PMC5231271
- 67. 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. PMCID: PMC5571642
- 68. †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. PMCID: PMC4860169
- 69. *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. PMCID: PMC6812509
- 70. 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. PMCID: PMC6360137
- 71. †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. PMCID: PMC6544482
- 72. 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 PMCID: PMC8744290
- 73. 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. PMCID: PMC10201566

Manuscripts under Review or Revised & Resubmitted

74. Yang, J.J., Piper, M.E., Indic, P. & *Buu, A. (revised & resubmitted). Statistical methods for predicting e-cigarette use events based on beat-to-beat (BBI) data collected from wearable devices.

- 75. Yang, J.J. & *Buu, A. (revised & resubmitted). Efficient matrix profile computation with Euclidean distance using eigen transformation: performance evaluation based on beat-tobeat interval (BBI) data.
- 76. Yang, J.J. & *Buu, A. (under review). Adaptive sequential singular spectrum analysis with an application to extract heart rate signals related to e-cigarette use.
- 77. 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.
- 78. Ou, T.S., Buu, A., Yang, J.J., & Lin, H.C. (revised & resubmitted). E-cigarette use contexts and associated e-cigarette use dependence among college students: A longitudinal examination.
- 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.

Book Chapters and Measurement or Software Manuals

- 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. Yang, J.J., Li, J., & **Buu**, A. (2013). *R Package EILA: Efficient Inference of Local Ancestry.* https://CRAN.R-project.org/package=EILA
 Dziak, J., Tan, X., Li, R., & **Buu**, A. (2013). *Ordinal Tvem Macro*. 1.
- 2.
- 3.
- http://methodology.psu.edu/OrdinalTvemPropOdds

 Buu, A. & Li, R. (2018). New statistical methods inspired by data collected from alcohol 4. 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 Teachin	<u>1g</u>
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,
04/000= 04/0044	Abida Anwar, Olive Pertuit
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)
0712000-0 1 12003	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)
00/2012 magant	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)
06/2014-present	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)
1	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)
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-present	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-present	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

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.

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 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

National Service

07/2020-06/2024 Standing Member

Addiction Risks and Mechanisms Study Section

Center for Scientific Review National Institutes of Health

01/2024-10/2024 Co-Chair

Medical Cannabis Use, Polysubstance Use, and Recovery Working Group

PhenX Toolkit (consensus measures for **Phen**otypes and e**X**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
00/0016 04/0010	University of Michigan at Ann Arbor
09/2016-04/2019	Interviewer for National Clinician Scholars Program
	School of Nursing
00/2010 04/2010	University of Michigan at Ann Arbor
09/2018-04/2019	Member of the Undergraduate Curriculum Evaluation Group
	School of Nursing
01/2019 01/2010	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
07,2019 00,2019	University of Texas School of Public Health
07/2019-present	Mock Reviewer for Public Health Faculty's NIH Proposals
***-** F	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	Sarvica
09/2004-12/2004	Marshalls Committee
07/2004-12/2004	Department of Statistics
	University of Michigan at Ann Arbor
01/2015-05/2015	Coordinator of the Grant Writing Discussion Group
01/2013 03/2013	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
	•
	Member of the Data Safety and Monitoring Board Randomized Trial of a Data-Driven Technical Assistance System for
10/2019-01/2020	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
10/2019-01/2020	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 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) Member of the Three-Year Review Committee of Dr. Wei-Chung Su, Department of Epidemiology, Human Genetics, and Environmental Sciences, UTHealth
10/2019-01/2020 09/2019-05/2020	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) Member of the Three-Year Review Committee of Dr. Wei-Chung Su, Department of Epidemiology, Human Genetics, and Environmental Sciences, UTHealth Co-Chair of the Working Group for Drug Abuse Research Using Existing
09/2019-05/2020	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) Member of the Three-Year Review Committee of Dr. Wei-Chung Su, Department of Epidemiology, Human Genetics, and Environmental Sciences, UTHealth Co-Chair of the Working Group for Drug Abuse Research Using Existing Databases, Department of Biostatistics & Data Science, UTHealth
	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) Member of the Three-Year Review Committee of Dr. Wei-Chung Su, Department of Epidemiology, Human Genetics, and Environmental Sciences, UTHealth Co-Chair of the Working Group for Drug Abuse Research Using Existing Databases, Department of Biostatistics & Data Science, UTHealth Member of the Working Group for Quantitative Method Courses &
09/2019-05/2020	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) Member of the Three-Year Review Committee of Dr. Wei-Chung Su, Department of Epidemiology, Human Genetics, and Environmental Sciences, UTHealth Co-Chair of the Working Group for Drug Abuse Research Using Existing Databases, Department of Biostatistics & Data Science, UTHealth Member of the Working Group for Quantitative Method Courses & Certificate, Department of Health Promotion & Behavioral Sciences,
09/2019-05/2020	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) Member of the Three-Year Review Committee of Dr. Wei-Chung Su, Department of Epidemiology, Human Genetics, and Environmental Sciences, UTHealth Co-Chair of the Working Group for Drug Abuse Research Using Existing Databases, Department of Biostatistics & Data Science, UTHealth Member of the Working Group for Quantitative Method Courses &

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