

# Brian P. Flaherty

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## Education

Ph.D., Human Development and Family Studies, The Pennsylvania State University, 2003.

Thesis title: Continuous and categorical indicator latent class models.

Committee: Linda M. Collins (co-chair), Joseph L. Schafer (co-chair), Nancy Darling, Michael Rovine

Minor in Statistics

M.S., Human Development and Family Studies, The Pennsylvania State University, 1997. Thesis title: Assessing stage-sequential reciprocal influence with latent transition analysis.

B.A., Psychology, The State University of New York at Buffalo, 1992.

## Positions

Director, Methods Core, University of Washington Behavioral Research Center for HIV (UW BIRCH), 2021–present

Senior Research Fellow, Center for Health Policy & Inequalities Research, Duke University, 2015–present

University of Washington, Department of Psychology

Associate Professor with tenure, 2011–present

Assistant Professor, 2005–2011

Member, National Cancer Institute and American Legacy Foundation Research Network on Tobacco and Health Disparities (TReND), 2004–2010

Robert Wood Johnson Research Network on the Etiology of Tobacco Dependence (TERN)

Faculty Scholar, 2003–2005

Data Analyst, 1998–2003

The Pennsylvania State University, Department of Human Development and Family Studies

Research Associate, The Methodology Center, 2003–2005

Research Assistant, The Methodology Center, 1995–2003

## Research Interests

Latent class and mixture models; Latent variable models; Measurement and psychometrics; Longitudinal design and analysis; Exploratory data analysis; Developmental theory and methods.

## Publications

1. Beauchamp, G.,<sup>1</sup>Hosek, S., Donnell, D. J., Chan, K. C. G., Flaherty, B. P., Anderson, P. L., Dye, B. J., Mgodhi, N., Bekker, L., Delany-Moretlwe, S., & Celum, C. (In press). Development of a tool to assess HIV prevention readiness of adolescent girls and young women in HPTN 082 study. *PLOS ONE*.
2. Flaherty, B. P., Wang, L.,<sup>1</sup> & Kiff, C. J.<sup>1</sup> (In press). Latent class and latent profile models. In H. Cooper & K. Sher (Eds.), *Handbook of Research Methods in Psychology: Vol. 3 (2nd ed.)* Washington, DC: American Psychological Association.
3. Korhonen, C.,<sup>1</sup> Flaherty, B. P., Wahome, E., Macharia, P., Musyoki, H., Bhattacharjee, P., Kimani, J., Doshi, M., Mathenge, J., Lorway, R., Sanders, E., & Graham, S. (2022). Validity and reliability of the Neilands sexual stigma scale among Kenyan gay, bisexual, and other men who have sex with men. *BMC Public Health*, 22,754. doi:10.1186/s12889-022-13066-3
4. Arnett, A. B.<sup>2</sup> <sup>3</sup> & Flaherty, B. P.<sup>2</sup> (2022). A framework for characterizing heterogeneity in neurodevelopmental data using latent profile analysis in a sample of children with ADHD. *Journal of Neurodevelopmental Disorders*, 45. doi:10.1186/s11689-022-09454-w
5. Peckham, T.,<sup>1</sup> Flaherty, B. P., Hajat, A., Fujishiro, K., Jacoby, D. & Sexias, N. (2022). What does non-standard employment look like in the United States? An empirical typology of employment quality. *Social Indicators Research*, 163, 555–583. doi:10.1007/s11205-022-02907-8
6. Cumbe, V. F. J., Muanido, A. G., Turner, M., Ramiro, I., Sherr, K., Weiner, B. J., Flaherty, B. P., Sharma, M., Faduque, F., Xerinda, E. R., & Wagenaar, B. H. (2022). Systems analysis and improvement approach to optimize outpatient mental health treatment cascades in Mozambique (SAIA-MH): study protocol for a cluster randomized trial. *Implementation Science*, 17, 37. doi:10.1186/s13012-022-01213-8
7. Arnett, A. B.,<sup>3</sup> McGrath, L. M., Flaherty, B. P., Pennington, B. F. & Willicut, E. G., (2022). Heritability and clinical characteristics of neuropsychological profiles in youth with and without elevated ADHD symptoms. *Journal of Attention Disorders*, 26(11), 1422–1436. doi:10.1177/10870547221075842
8. Ostermann, J., Flaherty, B. P., Brown, D. S., Njau, B., Hobbie, A. M., Mtuy, T., Masnick, M., Mühlbacher, A. C., & Thielman, N. M., (2021). What factors influence HIV testing? Modeling preference heterogeneity using latent classes and class-independent random effects. *Journal of Choice Modelling*, 40, 100305. doi:10.1016/j.jocm.2021.100305.
9. Flaherty, B. P. & Shono, Y.<sup>3</sup> (2021). Many classes, restricted measurement (MACREM) models for improved measurement of activities of daily living. *Journal of Survey Statistics and Methodology*, 9(2), 231–256. doi:10.1093/jssam/smaa047.
10. Flaherty, B. P. & Scheier, L. M. (2021). Modeling behavior as dynamic sequential states: Introduction to the special issue. *Evaluation and the Health Professions*, 44(1), 3–8. doi:10.1177/0163278720985917.
11. Ostermann, J., Njau, B., Hobbie, A., Mtuy, T., van Zwetselaar, M., Masnick, M., Shayo, A., Brown, D. S., Flaherty, B. P., Mühlbacher, A. C., & Thielman, N. M. (2020). Using discrete choice experiments to design interventions for heterogeneous preferences: protocol for a pragmatic randomized controlled trial of a preference-informed, heterogeneity-focused, HIV testing offer for high-risk populations. *BMJ Open*, 10(11). doi:10.1136/bmjopen-2020-039313.

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<sup>1</sup>Graduate student advisee

<sup>2</sup>Authors contributed equally.

<sup>3</sup>Former post-doctoral mentee

12. Peckham, T.,<sup>1</sup> Fujishiro, K., Hajat, A., Flaherty, B. P., & Sexias, N. (2019). Evaluating employment quality as a determinant of health in a changing labor market. *RSF: The Russell Sage Foundation Journal of the Social Sciences*, 5(4), 258–281. doi:10.7758/RSF.2019.5.4.09.
13. Roberts, S. T.,<sup>1</sup> Flaherty, B. P., Deya, R., Masese, L., Ngina, J., McClelland, R. S., Simoni, J., & Graham, S. M. (2018). Patterns of gender-based violence and associations with mental health and sexual risk behavior among female sex workers in Mombasa Kenya: A latent class analysis. *AIDS and Behavior*, 22, 3273–3286. doi:10.1007/s10461-018-2107-4.
14. Staples, J. M.,<sup>1</sup> Neilson, E. C., George, W. H., Flaherty, B. P., & Davis, K. C. (2018). A descriptive analysis of alcohol behaviors across gender subgroups within a sample of transgender adults. *Addictive Behaviors*, 76, 355–362. doi:10.1016/j.addbeh.2017.08.017.
15. Flaherty, L. M., Flaherty, B. P., Kruse-Jarres, R., & Konkle, B. A. (2016). Falls and associated complications in adults with haemophilia. *The Journal of Haemophilia Practice*, 3(2), 71–75. doi:10.17225/jhp00080.
16. Kristman-Valente, A. N.<sup>1 3</sup> & Flaherty, B. P. (2015). Latino cigarette smoking patterns by gender in a US-national sample. *Annals of Behavioral Medicine*, 50(1), 34–47. doi:10.1007/s12160-015-9729-9.
17. Flaherty, B. P. (2015). Cigarette smoking patterns as a case study of theory oriented latent class analysis. In L. M. Scheier (Ed.), *Handbook of Adolescent Drug Use Prevention: Research, Intervention Strategies, and Practice* (pp. 437–458). Washington, DC: American Psychological Association. doi:10.1037/14550-025.
18. Pollack, C., Cubbin, C., Sania, A., Hayward, M., Vallone, D., Flaherty, B. P. & Braveman, P. (2013). Do wealth disparities contribute to health disparities within racial/ethnic groups? *Journal of Epidemiology and Community Health*, 67(5), 439–445. doi:10.1136/jech-2012-200999.
19. Flaherty, B. P. & Kiff, C. J.<sup>1</sup> (2012). Latent class and latent profile models. In H. Cooper & K. Sher (Eds.), *Handbook of Research Methods in Psychology: Vol. 3* (pp. 391–404). Washington, DC: American Psychological Association. doi:10.1037/13621-019.
20. Huh, D.,<sup>1</sup> Flaherty, B. P. & Simoni, J. M. (2012). Optimizing the analysis of adherence interventions using logistic generalized estimating equations. *AIDS and Behavior*, 16, 422–431. doi:10.1007/s10461-011-9955-5.
21. Cubbin, C., Pollack, C., Flaherty, B. P., Hayward, M., Sania, A., Vallone, D., & Braveman, P. (2011). Assessing alternative measures of wealth in health research. *American Journal of Public Health*, 101, 939–947. doi:10.2105/AJPH.2010.194175.
22. Flaherty, B. P. (2010). The role of latent class and mixture models in substance use theory. In L. M. Scheier (Ed.), *Handbook of drug use etiology: Theory, methods, and empirical findings* (pp. 513–523). Washington, DC: American Psychological Association.
23. Flaherty, B. P. (2010). Latent class and mixture models' potential contributions to understanding connections between menthol and other cigarette smoking characteristics. *Addiction*, 105(S1), 11–12. doi:10.1111/j.1360-0443.2010.03207.x.
24. Cumsille, P., Darling, N, Flaherty, B. P. & Martínez, L. (2009). Heterogeneity and change in the patterning of adolescents' perceptions of the legitimacy of parental authority: A latent transition model. *Child Development*, 80, 418–432. doi:10.1111/j.1467-8624.2009.01269.x.
25. Flaherty, B. P. (2008). Testing the degree of cross-sectional and longitudinal dependence between two discrete dynamic processes. *Developmental Psychology*, 44, 468–480. doi:10.1037/0012-1649.44.2.468.

26. Flaherty, B. P. (2008). Examining contingent discrete change over time with associative latent transition analysis. In G. R. Hancock & K. M. Samuelsen (Eds.), *Advances in latent variable mixture models* (pp. 77–103). Charlotte, NC: Information Age Publishing, Inc.
27. Clayton, R. R., Flaherty, B. P. & Alexander, L. A. (2007). Conceptual and methodological issues for research on tobacco-related health disparities. *Addiction*, 102(S2), 1–4.
28. Tiffany, S. T., Agnew, C., Maylath, N., Dierker, L., Flaherty, B., Richardson, E., Balster, R., Segress, M. H., Clayton, R., & and the Tobacco Etiology Research Network (TERN). (2007). Smoking in College Freshmen: The University Project of the Tobacco Etiology Research Network (UpTERN). *Nicotine & Tobacco Research*, 9, S611–S625.
29. Costello, D., Dierker, L., Sledjeski, E., Flaherty, B., Flay, B. & Shiffman, S. (2007). Confirmatory factor analysis of the Nicotine Dependence Syndrome Scale in an American college sample of light smokers. *Nicotine and Tobacco Research*, 9, 811–819.
30. Nichter, M., Nichter, M., Lloyd-Richardson, E. E., Flaherty, B. P., Carkoglu, A. & Taylor, N. (2006). Gendered dimensions of smoking among college students. *Journal of Adolescent Research*, 21, 215–243.
31. Hofer, S. M., Flaherty, B. P. & Hoffman, L. (2006). Cross-sectional analysis of time-dependent data: Mean-induced association in age-heterogeneous samples and an alternative method based on sequential narrow age-cohort samples. *Multivariate Behavioral Research*, 41, 165–187.
32. Cumsille, P., Darling, N, Flaherty, B. P. & Martínez, L. (2006). Chilean adolescents' beliefs about the legitimacy of parental authority: Individual and age-related differences. *International Journal of Behavioral Development*, 30, 97–106.
33. Colder, C. R., Lloyd-Richardson, E. E., Flaherty, B. P., Hedeker, D., Segawa, E., Flay, B. R. & TERN (2006). The natural history of college smoking: Trajectories of daily smoking during the freshman year. *Addictive Behaviors*, 31, 2212–2222.
34. Chung, H., Flaherty, B. P. & Schafer, J. L. (2006). Latent class logistic regression: Application to marijuana use and attitudes among high-school seniors. *Journal of the Royal Statistical Society, Series A*, 169, 723–743.
35. O'Connor, R. J., Kozlowski, L. T., Flaherty, B. P. & Edwards, B. Q. (2005). Most smokeless tobacco use does not cause cigarette smoking: Results from the 2000 National Household Survey on Drug Abuse. *Addictive Behaviors*, 30, 325–336.
36. Lanza, S. T., Collins, L. M., Schafer, J. L. & Flaherty, B. P. (2005). Using data augmentation to obtain standard errors and conduct hypothesis tests in latent class and latent transition analysis. *Psychological Methods*, 10, 84–100.
37. Kozlowski, L. T., O'Connor, R. J., Quinio, B. A., & Flaherty, B. P. (2004). Most smokeless tobacco use is not a causal gateway to cigarettes: Response to Tomar & Loree 2004. *Addiction*, 99, 262–264.
38. Collins, L. M. & Flaherty, B. P. (2003). Methodological considerations in prevention research. In Z. Sloboda & B. Bukoski (Eds.), *Handbook for Drug Abuse Prevention Theory, Science, and Practice* (pp. 557–573). New York, NY: Kluwer Academic Publishers.
39. O'Connor, R. J., Flaherty, B. P., Quinio, B. A., & Kozlowski, L. T. (2003). Regular smokeless tobacco use is not a reliable predictor of smoking onset when psychosocial predictors are included in the model. *Nicotine and Tobacco Research*, 5, 535–543.
40. Kozlowski, L. T., O'Connor, R. J., Quinio, B. A., & Flaherty, B. P. (2003). Most smokeless tobacco use is not a causal gateway to cigarettes: Using order of product use to evaluate causation in a national U.S. sample. *Addiction*, 98, 1077–1085.

41. Hofer, S. M., Sliwinski, M. J., & Flaherty, B. P. (2002). Understanding aging: Further commentary on the limitations of cross-sectional designs for aging research. *Gerontology*, 48, 22-29.
42. Lanza, S., Flaherty, B. P., & Collins, L. M. (2002). Latent class and latent transition analysis. In J. Schinka & W. Velicer (Eds.), *Research Methods in Psychology, Volume 2 of Handbook of Psychology (I. B. Weiner, Editor-in-Chief)* (pp. 663–685). New York, NY: John Wiley & Sons.
43. Collins, L. M. & Flaherty, B. P. (2002). Latent class models for longitudinal data. In J. Hagenaars & A. McCutcheon (Eds.), *Applied Latent Class Analysis* (pp. 287–303). Cambridge, NY: Cambridge University Press.
44. Flaherty, B. P. (2002). Assessing the reliability of categorical substance use items with latent class analysis. *Drug and Alcohol Dependence*, 68S, 7–20.
45. Dierker, L. C., Avenevoli, S., Merikangas, K. R., Flaherty, B. P., & Stolar, M. (2001). Association between psychiatric disorders and the progression of tobacco use behaviors. *Journal of the American Academy of Child & Adolescent Psychiatry*, 40, 1159–1167.
46. Shanahan, M. J. & Flaherty, B. P. (2001). Dynamic patterns of time use strategies in adolescence. *Child Development*, 72, 385–401.
47. Guttmann-Bauman, I., Flaherty, B. P., Strugger, M., & McEvoy, R. (1998). Metabolic control and quality of life self-assessment in adolescents with IDDM. *Diabetes Care*, 21, 915–918.
48. Collins, L. M., Graham, J. W., & Flaherty, B. P. (1998). An alternative framework for defining mediation. *Multivariate Behavioral Research*, 33, 295–312.

### *Guest Edited Journal Issues*

1. Scheier, L. M., & Flaherty, B. P. (Eds.). (2021). Modeling latent discrete change in health and evaluation studies. *Evaluation and the Health Professions*, 44(1).
2. Flaherty, B. P., Alexander, L., & Clayton R. R. (Eds.). (2007). Conceptual and methodological issues for research on tobacco-related health disparities. *Addiction*, 102(S2).
3. Collins, L. M., Flaherty, B. P. & Colby, S. (Eds.). (2002). Measurement and design issues in tobacco and drug use research. *Drug and Alcohol Dependence*, 68(S1).

### *Technical Reports, Software, Other Documents*

1. Collins, L. M., Flaherty, B. P., Hyatt, S. L., & Schafer, J. L. (1999). WinLTA users guide, Part 1 (Version 2.0). University Park: The Pennsylvania State University, The Methodology Center.
2. Flaherty, B. P., & Collins, L. M. (1999). Modeling transitions in two stage-sequences simultaneously (Technical Report No. 99-33). University Park: The Pennsylvania State University, The Methodology Center.
3. Flaherty, B. P., Graham, J. W., & Collins, L. M. (1998). Assessing bi-directional patterns of influence in adolescent early substance use onset with latent transition analysis (Technical Report No. 98-26). University Park: The Pennsylvania State University, The Methodology Center.
4. Flaherty, B. P. (1998). Assessing stage-sequential reciprocal influence with latent transition analysis (Technical Report No. 98-20). University Park: The Pennsylvania State University, The Methodology Center.

5. Flaherty, B. P. & Collins, L. M. (1998). Your new LTA data generator: Its care and use (Technical Report No. 98-19). University Park: The Pennsylvania State University, The Methodology Center.
6. Flaherty, B. P. (1998). The LTA data aggregation program (Technical Report Nos. 98-18). University Park: The Pennsylvania State University, The Methodology Center.

### *Grants and Sponsored Projects*

1. National Institute on Mental Health, Integrating a Transdiagnostic Psychological Intervention in the Care for Adolescents and Youth with HIV in Kenya, PENDING, Dalton C. Wamalwa (PI), Brian P. Flaherty (Co-I), 2023–2028. Total award \$2,655,400
2. National Institute on Mental Health, Systems Analysis and Improvement Approach to Optimize the Task-Shared Mental Health Treatment Cascade (SAIA-MH): A Cluster Randomized Trial, 1R01MH123682, Brad Wagenaar (PI), Brian P. Flaherty (Co-I), 2021-2026. Total award \$664,503
3. National Institute on Mental Health, University of Washington Developmental AIDS Research Center for Mental Health (UW BIRCH), 1P30MH123248-01, Jane Simoni (PI), Brian P. Flaherty (Methods Core Director), 2021-2025. Total award \$2,964,291
4. National Institute on Mental Health, Does preference-based HIV testing increase uptake in high risk populations?, R01MH106388, Jan Ostermann & Nathan Thielman (PIs), Brian P. Flaherty (subcontract PI), 2015–2020. Total subcontract award approximately \$20,000
5. National Institute on Drug Abuse, Psychometric and genetic assessments of substance use, R37DA18673 (MERIT award), Michael Neale (PI), Brian P. Flaherty (subcontract PI), 2004–2015. Total subcontract award approximately \$500,000.
6. Washington State Department of Health, Contract to support RFA and course on tobacco related health disparities, Jennifer Stuber (PI), Brian P. Flaherty (Co-PI), 2007–2008.
7. American Legacy Foundation, Measurement and Smoking Patterns in National Data, Brian P. Flaherty (PI), 2008–2010. Total award approximately \$75,000.
8. National Institute of Alcohol and Alcoholism, Clinical trial of the adrenergic  $\alpha - 1$  antagonist Prazosin for alcohol dependence, R01AA017184-01, Tracy Simpson (PI), Brian P. Flaherty (subcontract PI), 2008–2013. Total subcontract award approximately \$106,000.

### *Honors and Awards*

1. Davida Teller Distinguished Faculty Award for excellence in graduate training and mentorship, 2016.
2. NIH MERIT award to grant R01DA018673 (Flaherty subcontract PI; Michael Neale, project PI), 2004.
3. Robert Wood Johnson Research Network on the Etiology of Tobacco Dependence (TERN) Faculty Scholar, 2003–2004.
4. Graham Fellowship, The Pennsylvania State University, 1995–1997.

### *Invited Presentations*

1. Flaherty, B. P. (2023). Measurement issues in mental health research within/across different contexts. Epidemiology of public mental health seminar, UW Department of Epidemiology.

2. Flaherty, B. P. (2021). Construct operationalization and its effects on associations with other variables: Example with substance use and related associative memory. Laboratories of Cognitive Neuroscience, Boston Children's Hospital, Boston, MA.
3. Flaherty, B. P. (2019). Introduction to latent class and latent transition models. Measurement and Statistics area seminar in the UW College of Education.
4. Flaherty, B. P. (2019). Introduction to latent class and mixture models (presentation and R tutorial). Parenting and Family Dynamics preconference workshop at the Society for Personality and Social Psychology conference, Portland, OR.
5. Flaherty, B. P. (2018). Examining the impact of construct operationalization of substance use on the association with substance use-related associative memory. Cognition-Perception seminar, UW Department of Psychology.
6. Flaherty, B. P. (2017). Overview of cross-sectional and longitudinal latent class models. Child Health, Behavior and Development Seminar at Seattle Children's Research Institute, Seattle, WA.
7. Flaherty, B. P. (2016). Introduction to latent class and mixture models. Occasional Temperament Conference, Seattle, WA.
8. Flaherty, B. P. (2014). Introduction to latent class and latent transition models: Matching models to questions to data. Centre on Aging Colloquium Series, University of Victoria, Victoria, BC, Canada.
9. Flaherty, B. P. (2011). Model selection in latent class and mixture models illustrated with analysis of cigarette smoking patterns. Quantitative Seminar, School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA.
10. Flaherty, B. P. (2011). Menthol preferences in smoking patterns among African American and Hispanic US adult cigarette smokers. Diversity Science seminar, Psychology Dept., University of Washington, Seattle, WA.
11. Flaherty, B. P. (2010). Psychometrics and latent class model selection in complex public health survey data. 138th American Public Health Association Meeting in Denver, CO.
12. Flaherty, B. P. (2010). Invited panelist in session *Using a network to build research workforce capacity to address health disparities and promote career opportunities*. Tobacco Related Health Disparities Network (TReND) Meeting Eliminating Tobacco-Related Health Disparities, Washington DC.
13. Flaherty, B. P. & Vishwanath, K. (2010). TeRMM: Cognitive interviews and early psychometric assessment. Tobacco Related Health Disparities Network (TReND) Meeting Eliminating Tobacco-Related Health Disparities, Washington DC.
14. Flaherty, B. P. (2010). Latent class models to examine cigarette smoking patterns across social groups. Tobacco Related Health Disparities Network (TReND) Meeting Eliminating Tobacco-Related Health Disparities, Washington DC.
15. Flaherty, B. P. (2010). Model selection in latent class and mixture models: What is to be preferred? Center for Statistics and the Social Sciences Seminar Series, University of Washington, Seattle, WA.
16. Flaherty, B. P. (2010). Cigarette smoking patterns and covariates in US national data across three racially classified social groups. Center for Studies in Demography and Ecology Seminar Series, University of Washington, Seattle, WA.
17. Flaherty, B. P. (2009). Cigarette smoking patterns and covariates in US national data across three racially classified social groups. Cooper Colloquium invitee at the Center for Alcohol Studies, Rutgers University, New Brunswick, NJ.

18. Flaherty, B. P. (2009). Cigarette smoking patterns and covariates in US national data across three racially classified social groups. Schroeder Institute and American Legacy Foundation, Washington, D.C.
19. Flaherty, B. P. (2009). African American & Hispanic adult smoking patterns, US, 2004. National Cancer Institute and American Legacy Foundation Tobacco Related Health Disparities Network (TReND) Meeting in Bethesda, MD.
20. Flaherty, B. P. (2008). Smoking patterns in US national data. Center for Statistics and the Social Sciences Seminar Series, University of Washington, Seattle, WA.
21. Flaherty, B. P. (2008). A preliminary look at smoking patterns among African American adults in 2004 US data. National Cancer Institute and American Legacy Foundation Tobacco Related Health Disparities Network (TReND) Meeting in Bethesda, MD.
22. Flaherty, B. P. (2007) Measurement and types/patterns of smoking. National Cancer Institute and American Legacy Foundation Tobacco Related Health Disparities Network (TReND) Meeting in Bethesda, MD.
23. Flaherty, B. P. (2007). Patterns and predictors of substance use in US national data. Center for Studies in Demography and Ecology Seminar Series, University of Washington, Seattle, WA.
24. Flaherty, B. P. (2006). Examining contingent discrete change over time with associative latent transition analysis. Inaugural Meeting of the Center for Integrated Latent Variable Research in College Park, MD.
25. Flaherty, B. P. (2006.) Associative latent transition models: Examining relations between tobacco and alcohol use. Social Development Research Group, Seattle, WA.
26. Flaherty, B. P. (2006). Longitudinal latent class models and an associative parameterization. Center for Statistics and the Social Sciences Seminar Series, University of Washington, Seattle, WA.
27. Giovino, G. A., Wani, A., & Flaherty, B. P. (2000). Measuring tobacco use in young people. Invited presentation at the National Cancer Institute's "Tobacco Use Among Youth Investigators" Meeting in Denver, CO.
28. Flaherty, B. P. (1998). Reciprocal influence in peer relations. Preconference meeting at the Society for Research on Adolescence Meeting in San Diego, CA.
29. Collins, L. M. & Flaherty, B. P. (1997). Using latent transition analysis to analyze data from prevention trials. Design and Analysis of Prevention Trials for the Future Meeting, Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD.

#### *Federal Panels, Advisory Meetings, and Presentations*

1. Flaherty, B. P. Latent class and mixture models in regulatory assessment: Balancing knowledge and goals. Part of the Food and Drug Administration workshop on Modeling and Statistical Methods for the Regulatory Assessment of Tobacco Products, Gaithersburg, MD, Dec. 2013.
2. National Cancer Institute and American Legacy Foundation Research Network on Tobacco and Health Disparities (TReND), Sept. 2004–2010.
3. Working group on measurement of SES for health disparities research in Washington, DC., September 2005.
4. Farm worker sampling methodology meeting in Los Angeles, CA, June 2008.



*Short-courses, Tutorials, Workshops*

1. Introduction to latent class and mixture models (presentation and R tutorial). (Jan. 2019). Parenting and Family Dynamics preconference workshop at the Society for Personality and Social Psychology conference, Portland, OR.
2. An Introduction to "statistically principled" analysis with missing data. (Apr., 2011). School of Social Work, University of Washington, Seattle, WA.
3. Latent class analysis and PROC LCA. (Sept., 2009). Center for Alcohol Studies, Rutgers University, New Brunswick, NJ.

*Selected Conference Presentations*

1. Ostermann, J., Mühlbacher, A., Brown, D., Flaherty, B., Njau, B., & Thielman, N. (2019). Turning data on heterogeneous HIV testing preferences into policy options: Lessons from the DCE-based design of a randomized controlled trial to evaluate uptake of preference-informed HIV testing interventions. International Health Economics Association, Basel, Switzerland.
2. Peckham T, Hajat A, Flaherty B, Sexias NS. (2019). Measurement of employment arrangements in the contemporary U.S. labor market: A typological approach. Work, Stress and Health, Philadelphia, PA.
3. Peckham T, Hajat A, Flaherty B, Fujishiro K, Sexias NS. (2019). The social distribution of employment arrangements in the modern U.S. economy: implications for health inequities. American Public Health Association, Philadelphia, PA.
4. Shono, Y., Stacy, A. W., & Flaherty, B. P. (2018). Differential covariate associations with different construct representations. Fourth Developmental Methods Conference in Whitefish, MT.
5. Peckham T, Hajat A, Flaherty B, Sexias NS. (2018). Evaluating health consequences of non-standard employment: how do we assess exposure? 9th International Conference on the Science of Exposure Assessment, Manchester, UK.
6. Peckham T, Hajat A, Flaherty B, Fujishiro K, Sexias NS. (2018). Employment Quality and Health in the U.S.: A Typological Approach. 9th International Conference on the Science of Exposure Assessment, Manchester, UK.
7. Peckham T, Fujishiro K, Hajat A, Flaherty B, Sexias NS. (2018). Evaluating Employment Quality as a Social Determinant of Health in the New Economy. Interdisciplinary Association for Population Health Science, Washington DC.
8. Roberts, S. T., Flaherty, B. P., Deya, R., Masese, L. Ngina, J., McClelland, R. S., and Graham, S. M. (2016). Patterns of Gender-Based Violence and Associations with Sexual Risk Behavior among Female Sex Workers in Mombasa Kenya: A Latent Class Analysis. HIV Research for Prevention: AIDS Vaccine, Microbicide and ARV-based Prevention Science (HIVR4P), Chicago, IL.
9. Flaherty, B. P. (2016). Effects of parsimony and conservative testing on statistical decisions and knowledge development. Third Developmental Methods Conference, Whitefish, MT.
10. Kuczynski, A. M., Epistola, J., Mier-Chairez, J., Stowe, T., Lee, E., Singh, S., Flaherty, B. P., Dudek, J. E., Tsai, M., Kanter, J. W. (2016). Measuring awareness, courage, and love as a contextual behavioral interpersonal process model for the development of intimacy. Association for Contextual Behavioral Science 14th Annual World Conference, Seattle, WA.

11. Flaherty, B. P. & Kristman-Valente, A. (2015). Toward better characterizing variability in cigarette smoking among priority populations. 36th Annual Meeting of the Society of Behavioral Medicine, San Antonio, TX.
12. Flaherty, B. P. & Kristman-Valente, A. (2015). African American cigarette smoking patterns in a US national sample. 21st Annual Meeting of the Society for Research on Nicotine and Tobacco, Philadelphia, PA.
13. Kim, H., Flaherty, B. P., & Clark, P. I. (2015). Electronic cigarette use behavior and experience among former smokers and dual users: Qualitative data through focus group approach. 21st Annual Meeting of the Society for Research on Nicotine and Tobacco, Philadelphia, PA.
14. Montoya, A. K., Flaherty, B. P., & Cheryan, S. (2015) Collapsing conditions increasing Type I error: Changing analysis of multiple control conditions. Annual Meeting of the Society for Personality and Social Psychology, Long Beach, CA.
15. Flaherty, L. M., Flaherty, B. P. & Konkle, B. A. (2014). Rates of falls, injurious falls, and activity restriction due to fear of falling in adults with hemophilia. National Hemophilia Foundation's 66th Annual Meeting, Washington, DC.
16. Kim, D. S. & Flaherty, B. P. (2013). Associations between smoking and related characteristics across demographic groups. Washington State Public Health Association Joint Conference on Health, Wenatchee, WA.
17. Flaherty, B. P. (2013). Statistical models, measurement and nicotine dependence theory. 75th annual meeting of the College on Problems of Drug Dependence, San Diego, CA.
18. Orcutt, H. K., Schild, A. L. & Flaherty, B. P. (2012). Trajectories of post-traumatic stress in college women following a campus mass shooting. 24th meeting of the Association for Psychological Science, Chicago, IL.
19. Flaherty, B. P. (2012). Statistical models, measurement and nicotine dependence theory. 24th meeting of the Association for Psychological Science, Chicago, IL.
20. Flaherty, B. P. (2012). Statistical models, measurement and nicotine dependence theory. 18th meeting of the Society for Research on Nicotine and Tobacco, Houston, TX.
21. Cubbin, C., Pollack, C., Flaherty, B., Hayward, M., Sania, A., Vallone, D., & Braveman, P. (2010). Developing feasible measures of wealth in studies of health. 138th American Public Health Association meeting, Denver, CO.
22. Kiff, C. J. & Flaherty, B. P. (2010). Inference challenges in latent class models. 118th annual meeting of the American Psychological Association, San Diego, CA.
23. Flaherty, B. P. (2010). Identifiability and model selection in a mixed indicator latent class model. 2010 International Meeting of the Psychometric Society, Athens, GA.
24. Flaherty, B. P. (2010). Model selection in latent class and mixture models: What is to be preferred? 31st annual meeting of the Society of Behavioral Medicine, Seattle, WA.
25. Cubbin, C., Pollack, C., Flaherty, B., Sania, A., Vallone, D., & Braveman, P. (2010). Recommending feasible measures of wealth in health research (Apr. 2010). 2010 Annual Meeting of the Population Association of America, Dallas, TX.
26. Flaherty, B. P. & Kiff, C. (2010). African American and Hispanic adult smoking patterns, US 2004. 16th annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

27. McArthur, E. J., Flaherty, B. P. & Kyes, R. C. (2009). Tracking and predicting emerging trends in primate use and demand. 60th American Association for Laboratory Animal Science meeting, Denver, CO.
28. Flaherty, B. P. (2009). Model selection in exploratory latent class & mixture models: What's to be preferred? 16th International Meeting of the Psychometric Society, St. John's College, Cambridge, England, UK.
29. Huh, D., Flaherty, B. P. & Simoni, J. M. (2009). A comparison of ANCOVA, generalized estimating equations and generalized linear mixed regression for evaluating HIV medication adherence interventions. Western North American Region/International Biometric Society Annual Meeting, Portland, OR.
30. Cubbin, C., Pollack, C., Flaherty, B., Hayward, M., Vallone, D., & Braveman, P. (2009). Developing feasible measures of wealth in health research. Society for Epidemiologic Research annual meeting, Anaheim, CA.
31. Kiff, C. J. & Flaherty, B. P. (2009). Variation in smoking patterns among African American and Hispanic US adults. Center for Statistics and the Social Sciences' Tenth Anniversary Conference, University of Washington, Seattle, WA.
32. Cumsille, P., Darling, N, Flaherty, B. P. & Martínez, L. (2009). Patterns of adolescent reported parental regulation in different domains: A latent class analysis with Chilean adolescents. 2009 meeting of the Society for Research on Child Development, Denver, CO.
33. Cumsille, P., Darling, N, Flaherty, B. P. & Martínez, L. (2008). Parents' view of the legitimacy of their authority over their adolescent children: A latent class analysis. 20th meeting of the International Society for the Study of Behavioural Development (ISSBD), Wuerzburg, Germany.
34. Huh, D., Simoni, J. M. & Flaherty, B. P. (2008). Statistical methods for randomized controlled trials: A comparison of ANCOVA, linear mixed regression, and generalized estimating equations for evaluating HIV medication adherence interventions. Third NIMH/IAPAC International Conference on HIV Treatment Adherence, Jersey City, NJ.
35. Reaume, G. & Flaherty, B. P. (2008). Sample size and class distribution affects recovery of proper latent class model. 2008 Western Psychological Association Convention, Irvine, CA.
36. Flaherty, B. P. (2008). Smoking patterns among a sample of US adult recent smokers. 14th annual meeting of the Society for Research on Nicotine and Tobacco, Portland, OR.
37. Flaherty, B. P. (2007). Substance use patterns by methamphetamine use in a nationally representative sample. 2nd National Conference on Methamphetamine, HIV, and Hepatitis: Science and Response 2007, Salt Lake City, UT.
38. Flaherty, B. P., Schafer, J. L., & Collins, L. M. (2004). Fit assessment and model selection in a mixed indicator latent class model. 24th Biennial Conference of the Society for Multivariate Analysis in the Behavioral Sciences, Jena, Germany.
39. Collins, L. M., Flaherty, B. P., & Tang, Z. (2004). Associative latent transition analysis (ALTA) models: Assessing the relation between two longitudinal stage sequences. 24th Biennial Conference of the Society for Multivariate Analysis in the Behavioral Sciences, Jena, Germany.
40. Flaherty, B. P. & Shiffman, S. (2004). Correlates of the Nicotine Dependence Syndrome Scale in a representative U.S. sample. Annual meeting of the Society for Research on Nicotine and Tobacco , Scottsdale, AZ.

41. Flaherty, B. P. & Shiffman, S. (2004). Factor structure of the Nicotine Dependence Syndrome Scale in the 2001 National Household Survey of Drug Abuse. Annual meeting of the Society for Research on Nicotine and Tobacco, Scottsdale, AZ.
42. Flaherty, B. P. & Collins, L. M. (2003). Stability and change in cigarette smoking classes of U.S. adolescents. Annual meeting of the Society for Research on Nicotine and Tobacco, New Orleans.
43. Kozlowski, L. T., O'Connor, R. J., Quinio, B. A. & Flaherty, B. P. (2003). Most smokeless tobacco use is not a causal gateway to cigarettes: Using order of product use to evaluate causation in a national U.S. sample. Annual Meeting of the Society for Research on Nicotine and Tobacco, New Orleans.
44. O'Connor, R. J., Flaherty, B. P., Kozlowski, L. T. & Quinio, B. A. (2003). Regular smokeless tobacco use is not a predictor of smoking onset when psychosocial predictors are included in the model: An analysis is of the TAPS Longitudinal Survey. Annual Meeting of the Society for Research on Nicotine and Tobacco, New Orleans.
45. Collins, L. M., Tang, Z., & Flaherty, B. P. (2002). Two-sequence latent transition models. Society of Multivariate Experimental Psychology, Charlottesville, VA.
46. Collins, L. M., Flaherty, B. P., & Tang, Z. (2002). Two-sequence latent transition models. 2002 Joint Statistical Meetings, New York City.
47. Flaherty, B. P., Schafer, J. L., Collins, L. M., & Darling, N. (2002). Latent class models with continuous and categorical indicators. 2002 Joint Statistical Meetings, New York City.
48. Hofer, S. M., Flaherty, B. P., & Sliwinski, M. J. (2002). Associations due to mean trends in cross-sectional, time-dependent data. International Society for the Study of Behavioral Development, Ottawa.
49. Flaherty, B. P. (2002). An expanded latent class analysis of parenting styles. Fifth International Institute on Developmental Science, University Park, PA.
50. Hofer, S. M., Sliwinski, M. J., & Flaherty, B. P. (2002). Problems of sharing age-related variance and the limitations of partialling for age. Biennial Cognitive Aging Conference, Atlanta.
51. Flaherty, B. P. & Giovino, G. A. (2002). Prospective prediction of three transitions in cigarette smoking. Annual Meeting of the Society for Nicotine and Tobacco Research in Savannah, GA.
52. Tang, Z., Flaherty, B. P., & Collins, L. M. (2001). Using two-sequence analysis to simultaneously model transitions in adolescent substance use and sexual behavior. Annual Meeting of the Society for Prevention Research, Washington, D.C.
53. Shanahan, M. J. & Flaherty, B. P. (2001). Adolescent time use and the transition to adulthood. 2001 Meeting Society for Research on Child Development biennial Meeting, Minneapolis, MN.
54. Flaherty, B. P. & Giovino, G. A. (2001). Using an expanded latent class model to investigate adolescent cigarette smoking. Eighth biennial Centers for Disease Control/Agency for Toxic Substances and Disease Registry Symposium on Statistical Methods in Atlanta, GA.
55. Flaherty, B. P., Hofer, S. M., Sliwinski, M., & Piccinin, A. M. (2000). Use of measurement bursts in models of change. Gerontological Society of America conference, Washington, D.C.
56. Hofer, S. M. & Flaherty, B. P. (2000). Narrow age-cohort analysis of cross-sectional data. Gerontological Society of America conference, Washington, D.C.
57. Flaherty, B. P., Schafer, J. L., Collins, L. M., & Darling, N. (2000). Continuous and categorical indicator latent class models. International Federation of Classification Societies Meeting, Namur, Belgium.

58. Shanahan, M. J. & Flaherty, B. P. (2000). Time use in adolescence and the transition to adulthood. European Association for Adolescent Research Meeting, Jena, Germany.
59. Flaherty, B. P., Collins, L. M. & Darling, N. (1999). Modeling inter-relations between two stage sequences: The example of psychological distress and substance use onset. Annual Meetings of the Society for Prevention Research, New Orleans, LA.
60. Flaherty, B. P. & Collins, L. M. (1998). Modeling transitions in two sequences simultaneously. New Methods for the Analysis of Change conference, University Park, PA.
61. Shanahan, M. J. & Flaherty, B. P. (1998). Developmental models of adolescent time use and the transition to adulthood. Society for Research on Adolescence Meeting, San Diego, CA.
62. Flaherty, B. P. (1997). Methodological considerations in applying the trait-state distinction to behavior. Annual Convention of the American Psychological Association, Chicago, IL.
63. Guttman-Bauman, I., Strugger, M., Flaherty, B. P., & McEvoy, R. (1997). Metabolic control and quality of life self-assessment in adolescents with IDDM. American Diabetes Association Meeting in Boston, MA.
64. Flaherty, B. P., Cumsille, P., & Sayer, A. G. (1997). Structural invariance of parental monitoring. Annual Meetings of the Society for Prevention Research, Baltimore, MD.
65. Darling, N., Flaherty, B. P., & Dwyer, K. M. (1997). What do I want for my child? The relationship between mothers' goals, style, and practices. Biennial Meetings of the Society for Research on Child Development, Washington, D.C.
66. Flaherty, B. P. & Shanahan, M. J. (1997). Patterns of adolescent time use. Annual Graduate Research Exhibition, University Park, PA.
67. Collins, L. M., Graham, J. W., & Flaherty, B. P. (1996). A latent transition analysis approach to assessing mediation: Back to basics. Annual Meetings of the Society of Multivariate Experimental Psychology in Evanston, IL. (Presidential Address).
68. Flaherty, B. P., Graham, J. W., & Collins, L. M. (1996). Tracing the process of drug use onset with latent transition analysis. Annual Meetings of the American Psychological Association, Toronto, Ontario.
69. Graham, J. W., Collins, L. M., & Flaherty, B. P. (1996). LTA with missing data: A multiple imputation solution. Annual Meetings of the American Psychological Association, Toronto, Ontario.
70. Flaherty, B. P., Clopper, R. R., & Cooper, M. L. (1995). Pubertal timing affects adolescent sexual risk behavior. Annual Convention of the American Psychological Society, New York, NY.

### *Editorial Service*

Editorial Board member, *International Journal of Behavioral Development*.

Special issue guest editor, *Evaluation and the Health Professions*.

Supplemental issues guest editor, *Drug and Alcohol Dependence and Addiction*

Reviewer for *Addiction*; *AIDS Care*; *American Educational Research Journal - Teaching, Learning and Human Development*; *American Journal of Epidemiology*; *American Journal of Health Promotion*; *American Journal of Preventive Medicine*; *American Journal of Public Health*; *American Sociological Review*; *Applied Psychological*

*Measurement; Clinical Psychological Science; Computer Supported Cooperative Work; Drug and Alcohol Dependence; Group Dynamics: Theory, Research, and Practice; Human Communication Research; International Journal of Behavioral Development; Journal of Abnormal Psychology; Journal of Adolescence; Journal of Affective Disorders; Journal of Drug Issues; Journal of Immigrant and Minority Health; Journal of the International AIDS Society; Journal of Experimental Child Psychology; Journal of Modern Applied Statistical Methods; Journal of Personality and Social Psychology; Journal of Racial and Ethnic Health Disparities; Multivariate Behavioral Research; Nicotine and Tobacco Research; PLoS ONE; Psychology Addictive Behaviors; Psychological Methods; Social Psychological and Personality Science; Social Science & Medicine; TPM – Testing, Psychometrics, and Methodology in Applied Psychology; Translational Behavioral Medicine; and Value in Health.*

### *Professional, University, and Department Service*

#### University level

UW Behavioral Research Center for HIV (BIRCH) Methods Core Director (2021–present)

Center for Statistics and the Social Sciences (CSSS):

Executive board member (2011–present)

Seminar director (2011–2013)

Faculty affiliate (2006–present)

Statistical and methodological consulting:

Faculty and graduate students across university departments and schools, including Architecture, Psychology, Sociology, Global Health, Public Health, Medicine, Nursing, Social Work, and the Veteran's Administration Hospital

Multiple graduate student NRSA applications

Sexual Misconduct Prevention Coordinator for UW Health Sciences regarding Sexual misconduct questionnaire (2020)

Center for Studies in Demography and Ecology:

Statistics Core faculty advisor (2011–2013)

Executive Committee member (2011–2013)

Training grant faculty member

Faculty affiliate (2005–present)

Faculty affiliate of Center for AIDS Research

Faculty on NIAAA training grant: Postdoctoral Training in Alcohol Research (PTAR)

Reviewer for UW Royalty Research Fund (2009, 2012, 2013, 2014, 2016, 2019, 2023)

Reviewer for Alcohol and Drug Abuse Institute grants program (2019)

Academic Grievance Hearing Panel member for the UW Graduate School (2012–2014)

Developed and administered an RFA on tobacco related health disparities with Jennifer Stuber in Social Work. This RFA was funded by WA state Dept. of Health. (2007)

#### Psychology Department

##### Quantitative Area

Area head

Graduate admissions

Led effort to develop and lead Quantitative PhD track

Led effort to create and lead the Quantitative minor

Initiated and organized area brown-bags  
Lead planning in graduate quantitative training and curriculum  
Coordinate quantitative training opportunities

Searches

Lecturer (committee chair, 2020)  
Senior lecturer (committee chair, 2020)

Appointments, Reappointments, and Promotions

Lauren Graham (2022)  
Laura Little (committee chair, 2020)  
Bryan Hartzler (2011)

Consulting:

Faculty, post-doc's, graduate and undergraduate students on research design, measurement, analysis, interpretation, and presentation (2005–present)  
Many graduate student NRSA applications

Improvement and evaluation of teaching committee (2022–2023)

Graduate training committee (2011–2014; 2016–2018; 2022–2023)

Admissions committee (2020–2021)

Strategic planning committee (2015–2018)

Human subjects and IRB committee (2006–2013)

First-year proseminar organizer (2006–2008)

Guthrie prize committee (2006–2009)

Review UW graduate fellowship applications

*Other*

Ad hoc grant reviewer for NIDA, NIMH, NSF, Anthony Marchionne Foundation, Netherlands Organisation for Scientific Research, and the National Fund for Scientific and Technological Development (FONDECYT) of Chile.

Mentor in Seattle Pacific University's undergraduate mentoring program

Book proposal reviewer for Sage Publications.

*Professional Memberships*

The Classification Society

Psychometric Society

*Advising*

Post-doctoral researchers

Ramona Beltran (co-advised with Mary Larimer)

Allison Kristman-Valente

Yusuke Shono (co-advised with Kristen Lindgren)

## Ph.D students, as Primary Advisor

Nancy Gomez (Psychology)  
 Jessica Yu (Psychology)

## Ph.D students, as Co-advisor

David Huh (Psychology, co-advised with Jane Simoni)  
 Sarah Roberts (Epidemiology, co-advised with Susan Graham)  
 Liying Wang (Psychology, co-advised with Jane Simoni)  
 Cher Yang (Psychology, co-advised with Andrea Stocco)  
 Diana Kwon (Psychology, co-advised with Jane Simoni)

## Ph.D students, as Committee Member

Danielle Hessler (Psychology)	Hossein Estiri (Urban Planning)
Richard Nobles (Psychology)	Jensina Oliver (Music)
Antonia Bennett (Health Services)	Jason Scully (Urban Planning)
Toby White (Statistics)	Dennis Leung (Statistics)
Sean Tollison (Psychology)	Kyrill Gurtovenko (Psychology)
Gareth Holman (Psychology)	Trevor Peckham (Environmental and Occupational Health)
Sarah Racz (Psychology)	Jessica Canning (Psychology)
Anna Klimova (Statistics)	Yingchin Chen (Economics)
Robin Evans (Statistics)	Qiliang Chen (Economics)
Rick Cruz (Psychology)	Marie-Claire Gwayi-Chore (Global Health)
Ashley Maliken (Psychology)	Frank Song (Psychology)
Zheyu Wang (Biostatistics)	Jiaying Xiao (Education)
Berit Olsen (Psychology)	Cao Fang (Epidemiology)
Allison Kristman-Valente (Social Work)	

## Undergraduate Honors Students

Joseph Noh (2009)  
 Sophie Ziliak (2020, co-advisor with Anne Arnett)  
 Carol (Qiuyi) Wei (2020)

*Teaching*

## University of Washington

## Graduate

Linear Models And Data Analysis (PSYCH 525): Winter 2019, Winter 2020, Winter 2021, Winter 2023  
 Laboratory In Statistical Computation II (PSYCH 523): Winter 2019, Winter 2020, Winter 2021, Winter 2023



Introduction to Manifest Path, Confirmatory Factor, and Latent Variable Path Analysis for Psychology (PSYCH 530, was PSYCH 548): Winter 2007, Winter 2008, Spring 2010, Fall 2011, Spring 2016, Fall 2018, Fall 2020

Measurement and Measurement Models (PSYCH 548): Fall 2008

Analysis of Categorical and Count Data (CSSS/STAT/SOC 536): Fall 2012

Exploratory Data Analysis in Psychology (PSYCH 548): Spring 2019

Center for Statistics and the Social Sciences (CSSS) seminar organizer: Fall 2011, Winter 2012, Spring 2012, Fall 2012, Winter 2013, Spring 2013

Integrative Seminar on Health Disparities: The Case of Tobacco (co-taught with Jen Stuber): Winter 2008, Spring 2008

#### Undergraduate

Understanding Statistics In Psychology (PSYCH 315): Winter, 2006, Spring 2007, Summer 2018, Summer 2019

Introduction To Probability And Statistics For Psychology (PSYCH 317): Winter 2018

Statistical Inference In Psychological Research (PSYCH 318): Spring 2018

#### The Pennsylvania State University

##### Graduate

Research Methods in Developmental Processes (HDFS 536): Spring 2005

Multivariate Statistics (HDFS 523): Fall 2002 (as a teaching assistant with Michael Rovine)

##### Undergraduate

Introduction to Human Development (HDFS 129): Spring 1998 (as a teaching assistant with Michael Shanahan)