

NISHA GOTTFREDSON O'SHEA

Summary of Professional Experience

Nisha O'Shea is a Research Public Health Analyst with RTI's Substance Use, Prevention, Evaluation & Research Program with over a decade of experience in leading National Institutes of Health (NIH)-funded research to develop and apply sophisticated modeling approaches to studying substance use disorders and related health outcomes. Dr. O'Shea integrates her expertise in quantitative methods and developmental science to study etiology of health behaviors and outcomes. She is interested in applying knowledge about developmental etiology to prevent the onset or recurrence of substance use disorders and related mental and behavioral health problems, particularly for adolescents. She has recently received funding from the National Institute on Alcohol Abuse and Alcoholism (NIAAA) to develop and pilot test a universal intervention for parents of 11-year-olds to prevent early-onset alcohol use. She is interested in sustainable ways to integrate preventative care services into existing systems. Dr. O'Shea is also currently Multiple Principal Investigator (MPI) of a National Institute on Drug Abuse (NIDA)-funded longitudinal study that is following a large sample of rural North Carolinians from age 11 through 35. The purpose of this study is to measure structural racism within communities, neighborhoods, schools, and peer networks; to model the long-term effects of exposure to each type of structural racism on mental and behavioral health outcomes; and to identify potential leverage points that could buffer these negative effects. The long-term goal of this line of research is to develop and evaluate strategies for ending systems of structural racism and improving health equity. Finally, Dr. O'Shea collaborates on numerous projects to provide statistical support. She has expertise in generalized latent variable models, including item factor analysis and structural equation modeling, multilevel models, and mixture models. She is particularly interested in techniques for analyzing longitudinal data and psychometric analysis.

Education

Postdoctoral Training, Transdisciplinary Prevention Research Center and Center for Development Epidemiology, Duke University, Durham, NC, 2013.

PhD, Psychology (Quantitative), University of North Carolina at Chapel Hill (UNC), Chapel Hill, NC, 2011.

MA, Psychology (Quantitative), University of North Carolina at Chapel Hill (UNC), Chapel Hill, NC, 2008.

BA, Psychology, Mathematics, Pitzer College, Claremont, CA, 2006. Graduated cum laude.

Certifications and Licenses

Behavior Change Technique (BCT) Taxonomy, BCT Coding Competence, University College of London Health Psychology Research Group, 2021

Selected Project Experience

Measuring the Impact of Structural Racism and Discrimination During Adolescence on Substance Use, Psychological Distress, and Criminal Justice Outcomes in Adulthood (2022 to date)—*Principal Investigator*. Project for NIDA. Structural racism and discrimination (SRD) places rural Black Americans at the highest risk for virtually every adverse health outcome. The study will measure the short- and long-term consequences of adolescent SRD exposure and gather evidence on structural leverage points that

will enable future interventions to have the greatest impact. Responsible for overseeing scientific and administrative aspects of the project, analyzing data, and writing manuscripts.

Developing a Brief Intervention for Parental Alcohol Socialization to be Delivered by Pediatric Providers: A Feasibility Study (2021 to date)—*Principal Investigator*. Project for NIAAA. This project will develop an intervention based on evidence that alcohol socialization occurs early, within the family context. The intervention approach capitalizes on high levels of parental trust in pediatric health care professionals to develop a low-cost, high-reach, and sustainable intervention to prevent early onset alcohol use. Responsible for overseeing scientific and administrative aspects of the study, including message development, study design, and dissemination.

Building a Reinforcement Learning Tool for Individually Tailoring Just-in-Time Adaptive Interventions: Extending the Reach of mHealth Technology for Improved Weight Loss Outcomes (2021 to date)—*Principal Investigator*. Project for the National Cancer Institute (NCI). The objective of this project is to develop a tool that will make it easier for behavioral interventionists to implement reinforcement learning, a type of machine learning, into adaptive mobile (mHealth) interventions, specifically those intended to promote weight control. Widespread use of this tool will result in more efficient and effective adaptive mHealth interventions, ultimately leading to a lower burden of obesity-linked disease, including cancer. Responsible for overseeing and integrating development of the statistical tool with an existing mHealth intervention and pilot-testing the new tool.

Program Project: Improving Provider Announcement Communication Training (IMPACT) (2021 to 2022)—*Data Co-Lead*. Project for NCI. The Program Project's goal is to improve HPV vaccine communication and coverage in health care systems, a critically important opportunity for cancer prevention. It will create a package of intervention modules to accelerate improvements in HPV vaccine communication and uptake in health care systems. Responsible for overseeing data core.

A Micro-Randomized Trial of JITAI Messaging to Improve Adherence to Multiple Weight Loss Behaviors in Young Adults (2021 to date)—*Co-Investigator*. Project for NCI. Digital, mobile-delivered obesity interventions have the potential to impact a wider population than traditional in-person programs but to date have not resulted in similar weight losses. Newer digital approaches called just-in-time-adaptive interventions (JITAI) offer adaptive, personalized feedback “when needed” and in “real time,” but there has been no examination of what types of support are needed for weight loss, for whom, and in what behavioral contexts. This study uses a micro-randomized trial to systematically test the effects of behavior change techniques on achievement of daily behavioral goals to optimize message delivery in a comprehensive weight loss JITAI. Responsible for assisting with study design and data analysis.

Impact of E-Cigarette Prevention Messages on Adolescents (2020 to date)—*Co-Investigator*. Project for NIDA. The current epidemic of e-cigarette use among adolescents is of great concern, as e-cigarette use can lead to nicotine addiction and associated negative consequences. The current project will develop and test prevention messages that aim to effectively discourage adolescents from using e-cigarettes. This research will contribute to decreased e-cigarette use and a reduction in associated negative consequences among adolescents. Responsible for consulting on study design, data analysis, and manuscript preparation.

Activating Treatment as Prevention through Community Mobilization in South Africa (2020 to 2021)—*Co-Investigator*. Project for the National Institute of Mental Health (NIMH). Significant improvement in uptake of HIV testing and linkage to and retention in HIV care are critical to turning the tide on the HIV epidemic—community mobilization has tremendous potential to address the major social barriers to successful participation in the HIV care cascade. This project implemented and evaluated a community-level, theory-based mobilization intervention to decrease undiagnosed infections and improve linkage and retention in care in a high prevalence setting in South Africa. Was responsible for analyzing data, advising junior researchers, and writing manuscripts.

Advancing Perceived Message Effectiveness: A New Measure for Youth Prevention Media Campaigns (2019 to 2022)—*Co-Investigator*. Project for NCI. This study developed and tested a new youth-targeted measure to gauge the potential effectiveness of tobacco education advertisements. This measure will help campaign designers select more effective ads, thereby increasing the public health impact of tobacco education campaigns targeted to youth. Was responsible for consulting on study design, advising junior researchers, analyzing data, and writing manuscripts.

Mood, Mother, and Child: The Psychobiology of Dyadic Resilience (2018 to 2023)—*Co-Investigator*. Project for the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD). This study identifies psychobiological underpinnings of resilience among mother-child dyads exposed to maternal depression, a common and morbid condition that impacts the health of more than 400,000 mother-infant dyads every year. Responsible for advising junior researchers, analyzing data, and writing manuscripts.

The Impact of Affect Regulatory Mechanisms and Binge Eating on Drug Recovery (2014 to 2020)—*Principal Investigator*. Project for NIDA. Many individuals recovering from drug addiction learn to regulate negative affect induced by drug cravings with replacement behaviors such as binge eating. Neurobiological evidence suggests that this practice may lead to “spiraling dysregulation” and to faster and more probable relapse. This study examined the potentially deleterious and mutually perpetuating association between opiate addiction and binge eating. Was responsible for overseeing scientific and administrative aspects of the study, including study design, survey development, data analysis, and writing manuscripts.

Peer Mechanisms in the Internalizing Pathway to Substance Use (2014 to 2018)—*Co-Investigator*. Project for NIDA. This study examined how peers impact the development of adolescent substance use that is related to emotional distress, a model that is termed the internalizing pathway to substance use and disorder. Analyses of more than 6,500 adolescents assessed from middle through high school tested how distressed youth may be vulnerable to selecting friends and being influenced by friends who use substances and how these friendship effects may each play a role in the development of substance use as a way to cope with distress. Was responsible for data analysis and manuscript writing.

Harmonizing Substance Use and Disorder Measures to Facilitate Multistudy Analyses: Supplement to Analyze Seek-Test-Treat-Retain Data from Multiple Criminal Justice Samples (2013 to 2018)—*Statistician*. Project for NIDA. This study developed and evaluated psychometric models for harmonizing substance use outcomes assessed in varying ways across independent studies, permitting the pooling of data for integrative data analysis. Integrative data analysis provides one approach to address perennial challenges in the field of substance use such as the need to obtain sufficient sample sizes to test low-base rate behaviors; compare findings across a wide array of substance use measures and diagnostic instruments, which may even rely on different raters; and evaluate the generalizability of findings across the highly heterogeneous population of substance users (e.g., subgroup comparisons). Responsibilities included data analysis and manuscript writing.

Modeling Non-Random Missingness in Experience Sampling Research on Substance Use (2009 to 2011)—*Principal Investigator*. F31 individual National Research Service Award (NRSA) postdoctoral fellowship from NIDA. This project measured the effects that day-to-day emotional fluctuations have on substance use behaviors and the role of potential risk and protective factors in this process. In doing so, a novel model for handling non-randomly missing data was developed. Was responsible for all aspects of the study including design, analysis, and dissemination.

Professional Experience

2022 to date. RTI International, Research Triangle Park, NC.

Research Public Health Analyst. Obtains grant funding for, leads, and collaborates on research studies relating to etiology and prevention of substance use and related mental and behavioral health outcomes. Consults on experimental design and statistical analysis.

2006 to 2023. University of North Carolina at Chapel Hill (UNC), Chapel Hill, NC.

Adjunct Associate Professor, Dept. of Health Behavior, Gillings School of Public Health (2022 to 2023). Mentors doctoral students and serve on dissertation committees.

Associate Professor (with tenure), Dept. of Health Behavior, Gillings School of Public Health (2021 to 2022). Maintained an NIH-funded program of research, taught doctoral-level courses, and served on a variety of departmental and institutional committees.

Faculty Affiliate, Carolina Consortium on Human Development (2015 to 2022). Mentored pre- and post-doctoral students.

Assistant Professor, Dept. of Health Behavior, Gillings School of Public Health (2015 to 2021). Maintained an NIH-funded program of research, taught doctoral-level courses, and served on a variety of departmental and institutional committees.

Senior Investigator, Center for Developmental Science (now Carolina Consortium on Human Development) (2014 to 2015). Led and conducted NIH-funded research and provided statistical consultation.

Research Assistant Professor, Dept. of Psychology and Neuroscience (2013 to 2015). Mentored undergraduate students and taught doctoral courses.

Statistician/Investigator, Frank Porter Graham Child Development Institute (2013 to 2014). Statistician for federally funded projects.

2006 to 2007. Pacific Institute for Research and Evaluation, Chapel Hill, NC.

Research Associate. Conducted program evaluation for school-based substance use prevention programs.

Honors and Awards

Highly Published Award, RTI International, 2023

Highly Cited Researcher Award, RTI International, 2023

Long Term Career Author Award, RTI International, 2023

Top Reviewer for *Psychology of Addictive Behaviors*, 2021

Faculty Member, Delta Omega Honorary Public Health Society (Theta division), 2019

Junior Faculty Development Award, UNC Committee on Faculty Research and Study Leave, 2016

Lyle V. Jones Award, UNC L. L. Thurstone Psychometric Laboratory, 2010

Tanaka Award, Society for Multivariate Experimental Psychology, 2009

Keck Summer Research Fellowship, Claremont Colleges Joint Sciences Department, 2006

Sigma Xi Research Honors Society, 2005

Psi Chi Psychology Honors Society, 2005

Professional Associations

Training Committee Member, Society for Prevention Research

Reviewer

Addictive Behaviors
Abnormal Psychology
American Journal of Preventive Medicine
Annals of Behavioral Medicine
Behavior Research Methods,
British Journal of Mathematical and Statistical Psychology
Child Development
Clinical Psychological Science
Criminology
Cultural Diversity and Ethnic Minority Psychology
Drug and Alcohol Dependence
Drug and Alcohol Review
European Child & Adolescent Psychiatry
European Eating Disorders Review
Health Psychology
International Journal of Epidemiology
Journal of Affective Disorders
Journal of Consulting and Clinical Psychology
Journal of Research in Personality
Journal of Statistical Computation and Simulation
Journal of Studies on Alcohol and Drugs
Multivariate Behavioral Research
Pediatrics
PLoS One
Prevention Science
Psychology of Addictive Behaviors
Psychological Assessment
Psychological Methods
Psychometrika
Structural Equation Modeling: An Interdisciplinary Journal

Editorial

Guest Editor for Special Issue, *Psychology of Addictive Behaviors*
Consulting Editor, *Psychology of Addictive Behaviors*
Editorial Board Member, *Journal of Adolescent Health*

Professional Service

Training Committee, Society for Prevention Research, 2023 to date
Study Section member, National Institutes of Health, 2021 to date
Doctoral Admissions Committee, Department of Health Behavior, UNC Gillings School of Global Public Health, 2021 to 2022
Consulting advisor, Campus and Community Coalition: Chapel Hill Downtown Partnership, 2020 to date
Doctoral Advisory Committee, Department of Health Behavior, UNC Gillings School of Global Public Health, 2017 to date
Action Group member, Building Community to Promote an Antiracist and Inclusive Community Environment, UNC Department of Health Behavior, 2021 to 2022
Junior faculty social support pod organizer, Department of Health Behavior, UNC Gillings School of Global Public Health, 2020
Conference abstract reviewer, Society for Behavioral Medicine/Society for Prevention Research, 2019
Capstone selection committee member, Department of Health Behavior, UNC Gillings School of Global Public Health, 2018 to 2019
Organizing committee member, Studying heterogeneity in development consortium series, Carolina Consortium for Human Development, Spring 2017
Methodology curriculum revision committee member, Department of Health Behavior, UNC Gillings School of Global Public Health, 2015 to 2017
Search committee member, PhD-level statistician, UNC Center for Developmental Science, 2015 to 2016
Quantitative methodology representative, Science Student Council, American Psychological Association, 2009 to 2011

Seminars and Courses Taught

Modeling Nested Cross-Sectional and Longitudinal Data (Module 2 instructor), UNC Dept. of Health Behavior, 2017 to 2022
Applied Generalized Linear Models (Module 1 instructor), UNC Dept. of Health Behavior, 2017 to 2022
MPH Capstone (Faculty mentor), UNC Dept. of Health Behavior, Spring 2016 to 2022
Research Intensive Undergraduate Seminar (Instructor), UNC Dept. of Psychology/Dept. of Health Behavior, 2015 to date
Advanced Research Methods (Measurement Module instructor), UNC Dept. of Health Behavior, 2016
Grant Writing (Guest lecturer/statistical consultant), UNC Dept. of Health Behavior, 2016
Multivariable Regression (Instructor), UNC Dept. of Psychology and Neuroscience, 2013
Multilevel Modeling (Instructor), Duke University Dept. of Psychology, 2012

Mentoring

Current Committees

Blythe Rhodes, Health Behavior, University of North Carolina
Deborah Baron, Health Behavior, University of North Carolina
Wei Yei Kong, Health Behavior, University of North Carolina
Adams Sibley, Health Behavior, University of North Carolina

Pre- and Postdoctoral Mentoring

F31 NRSA Co-mentor, Deborah Baron, Health Behavior, 2021 to date
Mentor, Patrece Joseph, Health Behavior, Carolina Postdoctoral Program for Faculty Diversity, 2021 to 2022

F31 NRSA Co-mentor, Christine Schalkoff, Health Behavior, 2020 to 2022
F31 NRSA Co-mentor, Amanda Kong, Health Behavior, 2019 to 2020
T32 Postdoctoral Training Grant Co-mentor, Mairin Augustine, Carolina Consortium on Human Development, 2016 to 2018
F31 NRSA Co-mentor, Rebecca Sokol, Health Behavior, 2016 to 2018

Completed Dissertations

Committee member, Alexander Hurley, *Assessing Depression and Attributional Study as Determinants of Engagement in Digital Behavior Change Interventions*. Health Behavior, 2023 University of North Carolina

Committee member, Christine Schalkoff, *Understanding the Opioid Epidemic in Rural Ohio: A Mixed-Methods Analysis of Moral Values, Stigma, and Medication for Opioid Use Disorder (MOUD)*, Health Behavior, 2022, University of North Carolina

Committee member, Caroline Chandler, *Supporting strong starts: Associations between service receipt and developmental outcomes among infants and toddlers involved with Child Protective Services*, Maternal and Child Health, 2022, University of North Carolina

Committee member, Julianne Power, *Promoting Engagement in Digital Weight Loss Interventions*, Health Behavior, 2022, University of North Carolina

Committee member, Emily Mangone, *Development and Assessment of Contraceptive Ideational Profiles among Urban Women of Reproductive Age in Senegal: Implications for Family Planning Communication Programming*, Health Policy and Management, 2021, University of North Carolina

Committee member, Ida Griesemer, *A Mixed Methods Study of an Organizational Change Intervention to Increase Racial Equity in Cancer Care*, Health Behavior, 2021, University of North Carolina

Committee member, Natalie Blackburn, *An Economic Evaluation of an Alcohol Reduction Intervention in the HIV Clinic Setting in Vietnam*, Health Behavior, 2020, University of North Carolina

Committee member, Amanda Kong, *Associations of Tobacco Retailer Density with Neighborhood Sociodemographics, Individual Smoking Behavior, and COPD Hospital Discharge Rates: A Spatial Health Approach*, Health Behavior, 2020, University of North Carolina

Committee member, Alison Swiatlo, *Latent Contraceptive Dynamics and Pregnancy Experiences among a National Sample of U.S. Women*, Maternal and Child Health, 2020, University of North Carolina

Committee member, Anna Austin, *Assessing Heterogeneity in Risk and Protection among Alaskan Children*, Maternal and Child Health, 2019, University of North Carolina

Committee member, Sarah Treves-Kagan, *Identifying Individual, Partner, Household, and Neighborhood Predictors of Intimate Partner Violence among Poor Ecuadorian and Colombian Refugee Women: A Multi-Level Analysis*, Health Behavior, 2019, University of North Carolina

Committee member, May Chen, *The Relationship between the Family Context and Adolescent Dating Violence among Youth Exposed to Interparental Violence: A Person-Centered Analysis*, Health Behavior, 2019, University of North Carolina

Committee member, Deshira Wallace, *Stress Makes it Difficult to Live a Healthy Life: The Relationship between Stress and Dietary Behaviors among Latinos*, Health Behavior, 2019, University of North Carolina

Committee member, Sarah Kowitt, *How, Why, and for Whom do Neighborhood Characteristics Matter? Using Multilevel Modeling to Examine Associations among Neighborhood Context and Health Outcomes*, Health Behavior, 2018, University of North Carolina

Committee member, Leslie Adams, *A Mixed Methods Examination of Depressive Symptomatology and Usual Sources of Care among Black Men*, Health Behavior, 2018, University of North Carolina

Committee member, Kamden Hayashi, *Time Preference and HIV Risk Behavior in Kenya and Malawi*, Health Behavior, 2018, University of North Carolina

Committee member, Nivedita Bhushan, *Social Influence and Contraceptive Use among Adolescent Girls and Young Women in Malawi*, Health Behavior, 2018, University of North Carolina

- Committee member, Rebecca Sokol, *Child Maltreatment and Body Mass Index: Measurement Considerations and the Role of Social Support and Stress Responses*, Health Behavior, 2018
- Committee member, Sabeeh Baig, *Examining Perceived Message Effectiveness as a Marker for the Impact of Brief Health Behavior Interventions*, Health Behavior, 2018, University of North Carolina
- Committee member, Allison Schmidt, *Psychological Health and Smoking in Young Adulthood: Smoking Trajectories and Responsiveness to State Cigarette Excise Taxes*, Health Behavior, 2017, University of North Carolina
- Committee member, Lauren Hill, *Mental Health and Sexual Risk Behaviors among Social Networks of Young Tanzanian Men*, Health Behavior, 2017, University of North Carolina
- Committee member, Sarah Claesen Wyckoff, *Sexuality Patterns, Transitions, and Program Effects: An Application of Latent Class and Latent Transition Analysis to a Parent-Based Sexual Risk Prevention Program for African American Adolescents*, Health Behavior, 2017, University of North Carolina
- Committee member, Rebecca Boyd Naumann, *Assessing Sustained and Differential Impact of North Carolinas Medicaid Lock-in Program*, Epidemiology, 2017, University of North Carolina
- Committee member, Tamara Taggart, *Religiosity, Racial Identity, and Sexual Initiation among Black American Adolescents*, Health Behavior, 2016, University of North Carolina
- Committee member, Kathleen Day Malley, *Validations of the SCALE: A Measure of Middle School Students Transition Experiences*, Department of Education, 2014, University of North Carolina

Completed Thesis Supervision

- Committee member, Pei-Tzu (Angelina) Tsai, *Diagnostic Accuracy of the Child and Adolescent Symptom Inventory (CASI- 4R) Substance Use Subscale in Detecting Substance Use Disorders in Youths*, Department of Psychology (Clinical Master's Thesis), 2021, University of North Carolina
- Committee member, Lizzie Wilson, *The Effect of Blue-Light-Blocking Amber Glasses on Sleep and Affect*, Department of Psychology (undergraduate), 2020, University of North Carolina
- Committee member/Research supervisor, Lindsey Freeman, *Using Ecological Momentary Assessment (EMA) to Study the Impact of Colored Glasses on Sleep and Mood*, Department of Psychology (undergraduate), 2016, University of North Carolina

Special Courses

- BERG Ally Workshop: Working for Racial Justice as an Ally, RTI International, 2023
- From Awareness to Action: Confronting Weight Stigma to Promote Public Health, UNC Department of Nutrition, 2021
- Phase I, Racial Equity Institute, 2021
- Groundwater Training, Racial Equity Institute, 2020
- Mental Health First Aid, UNC Chapel Hill School of Social Works Behavioral Health Springboard, 2017
- Being Better Faculty Research Mentors, UNC Center for Faculty Excellence, 2016
- Safe Zone Training, UNC LGBTQ Center, 2015

Computer Skills

LaTeX, Mplus, R/ R Studio, SAS, SPSS

Software

- Cole, V. T., Gottfredson, N. C., & Gioradano, M. (2022). aMNLFA: Automated moderated nonlinear factor analysis (R package) (version 1.1.2). [Computer software]. <https://cran.r-project.org/web/packages/aMNLFA/index.html>
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Country Experience

Darjeeling, India, and Kathmandu, Nepal, 2005 to 2006

Books, Book Chapters, and Monographs

- Gottfredson, N. C.**, Stucky, B. D., & Panter, A. T. (in press). Item-level factor analysis. In H. Cooper, M. N. Coutanche, L. M. McMullen, & A. T. Panter (Eds.), *APA handbook of research methods in psychology* (2nd ed., Vol. 1). APA Books.
- Hoyle, R. H., & **Gottfredson, N. C.** (in press). Structural equation modeling with latent variables. In H. Cooper, M. N. Coutanche, L. M. McMullen, & A. T. Panter (Eds.), *APA handbook of research methods in psychology* (2nd ed., Vol. 2). APA Books.
- Hussong, A. M., Cole, V. T., Curran, P. J., Bauer, D. J., & **Gottfredson, N. C.** (2020). Integrative data analysis and the study of global health. In X. Chen & D-G. Chen (Eds.), *Statistical methods for global health and epidemiology: Principles, methods and applications* (pp. 121–158). Springer. http://dx.doi.org/10.1007/978-3-030-35260-8_5
- Stucky, B. D., **Gottfredson, N. C.**, & Panter, A. T. (2012). Item-level factor analysis. In H. Cooper, P. Camic, K. Sher, A. T. Panter, D. Long, & D. Rindskopf (Eds.), *APA handbook of research methods in psychology* (1st ed., Vol. 1, pp. 683–697). APA Books. <https://psycnet.apa.org/doi/10.1037/13619-036>

Peer-Reviewed Journal Articles

*student or mentee

†senior author

- Ma*, H., **O'Shea, N.G.**, Kieu, T., Rohde, J., Hall, M.G., Brewer, N.T., & Noar, S.M. (accepted). Examining the longitudinal association between perceived and actual message effectiveness: A randomized trial. *Health Communication*.
- Kowitt, S., Seidenberg, A., **O'Shea, N.G.**, Ritchie, C., Galper, E., Sutfin, E., Sheeran, P., & Noar, S. (accepted). Synthetic nicotine descriptors: Awareness and impact on perceptions of e-cigarettes among US youth. *Tobacco Control*.
- Swiatlo, A., Curtis, S., **Gottfredson, N.C.**, Halpern, C.T., & Hassmiller Lich, K. (accepted). Contraceptive behavior dynamics and unintended pregnancy: A latent transition analysis. *Demography*.
- Dora, J., Piccirillo, M., Foster, K.T., ... **Gottfredson, N.C.**, ..., King, K.M. (in press). The daily association between affect and alcohol use: A meta-analysis of individual participant data. *Psychological Bulletin*.
- Cole, V. T., Hussong, A. M., **Gottfredson, N. C.**, Bauer, D. J., & Curran, P. J. (2022). Informing harmonization decisions in integrative data analysis: Exploring the measurement multiverse. *Prevention Science*, e-pub ahead of print. <https://doi.org/10.1007/s11121-022-01466-1>
- Cole, V. T., Hussong, A. M., McNeish, D. M., Ennett, S. T., Rothenberg, W. A.*, **Gottfredson, N. C.**, & Faris, R. W. (2022). The role of social position within peer groups in distress-motivated smoking among adolescents. *Journal of Studies on Alcohol and Drugs*, 83(3), 420–429. <https://doi.org/10.15288/jsad.2022.83.420>

- Daugherty, J., Treves-Kagan, S., **Gottfredson, N. C.**, Miedema, S., & Haarbauer-Krupa, J. (2022). Does binge drinking mediate the relationship between four adverse childhood experiences and adult traumatic brain injury? Results from the National Longitudinal Survey of Youth 1979 Cohort. *Injury Prevention*. Online ahead of print. <https://doi.org/10.1136/ip-2022-044710>
- Gottfredson, N. C.**, Bhushan, N. L., Reyes, H. L. M., Pettifor, A. E., & Kahn, K. (2022). Effects of early social bonds on adolescent trajectories of sexual risk behaviors among South African girls. *AIDS and Behavior*, 26, 1173–1182. <https://doi.org/10.1007/s10461-021-03472-w>
- Kowitt, S. D.*, Sheldon, J. M., Vereen, R. N.*, Kurtzman, R. T.*, **Gottfredson, N. C.**, Hall, M. G., Brewer, N. T., & Noar, S. M. (2022). The impact of *The Real Cost* vaping and smoking ads across tobacco products. *Nicotine & Tobacco Research*. Online ahead of print. <https://doi.org/10.1093/ntr/ntac206>
- Kurtzman, R. T.*, Vereen, R. N.*, Sheldon, J. M., Adams, E. T., Hall, M. G., Brewer, N. T., **Gottfredson, N. C.**, & Noar, S. M. (2022). Adolescents' understanding of smoking and vaping risk language: Cognitive interviews to inform scale development. *Nicotine & Tobacco Research*, 24(11), 1741–1747. <https://doi.org/10.1093/ntr/ntac127>
- Noar, S. M., **Gottfredson, N. C.**, Kieu, T., Rohde, J. A., Hall, M. G., Ma, H., Fendinger, N. J., & Brewer, N. T. (2022). Impact of vaping prevention advertisements on US adolescents: A randomized clinical trial. *JAMA Network Open*, 5(10). <https://doi.org/10.1001/jamanetworkopen.2022.36370>
- Noar, S. M., **Gottfredson, N. C.**, Vereen, R. N.*, Kurtzman, R. T.*, Sheldon, J. M., Adams, E. T., Hall, M. G., & Brewer, N. T. (2022). Development of the UNC Perceived Message Effectiveness Scale for youth. *Tobacco Control*. Online ahead of print. <https://doi.org/10.1136/tobaccocontrol-2021-056929>
- Peddireddy, S. R.*, Austin, A. E., & **Gottfredson, N. C.**† (2022). Factors contributing to level and type of child welfare involvement following prenatal substance exposure: A scoping review. *Child Abuse & Neglect*, 125. <https://doi.org/10.1016/j.chiabu.2022.105484>
- Shapiro, G. K., **Gottfredson, N.**, Leask, J., Wiley, K., Gantner-Restrepo, F. E., Jones, S. P., Menning, L., & Brewer, N. T. (2022). COVID-19 and missed or delayed vaccination in 26 middle- and high-income countries: An observational study. *Vaccine*, 40(6), 945–952. <https://doi.org/10.1016/j.vaccine.2021.12.041>
- Treves-Kagan, S.*, Peterman, A., **Gottfredson, N. C.**, Villaveces, A., Moracco, K. E., & Maman, S. (2022). Equality in the home and in the community: A multilevel longitudinal analysis of intimate partner violence on the Ecuadorian-Colombian border. *Journal of Family Violence*, 37, 1–14. <https://doi.org/10.1007/s10896-020-00218-5>
- Adams, L. B.*, Baxter, S. L. K., Lightfoot, A. F., **Gottfredson, N.**, Golin, C., Jackson, L. C., ... Powell, W. (2021). Refining Black men's depression measurement using participatory approaches: A concept mapping study. *BMC Public Health*, 21(1), 1194. <https://doi.org/10.1186/s12889-021-11137-5>
- Baig, S. A.*, Noar, S. M., **Gottfredson, N. C.**, Lazard, A. J., Ribisl, K. M., & Brewer, N. T. (2021). Message perceptions and effects perceptions as proxies for behavioral impact in the context of anti-smoking messages. *Preventive Medicine Reports*, 23. <https://doi.org/10.1016/j.pmedr.2021.101434>
- Baig, S. A.*, Noar, S. M., **Gottfredson, N. C.**, Lazard, A. J., Ribisl, K. M., & Brewer, N. T. (2021). Message perceptions and effects perceptions as proxies for impact in the context of anti-smoking messages. *Preventive Medicine Reports*, 23. <https://doi.org/10.1016/j.pmedr.2021.101434>

- Baig, S. A.*, Noar, S. M., **Gottfredson, N. C.**, Lazard, A. J., Ribisl, K. M., & Brewer, N. T. (2021). Incremental criterion validity of message perceptions and effects perceptions in the context of anti-smoking messages. *Journal of Behavioral Medicine*, 44(1), 74–83. <https://doi.org/10.1007/s10865-020-00163-0>
- Bhushan, N. L.*, Fisher, E. B., **Gottfredson, N. C.**, Maman, S., Speizer, I. S., Phanga, T., ... Rosenberg, N.E. (2021). The mediating role of partner communication on contraceptive use among adolescent girls and young women participating in a small-group intervention in Malawi: A longitudinal analysis. *Global Public Health*, 17(7), 1392–1405. <https://doi.org/10.1080/17441692.2021.1924823>
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- Gottfredson, G. D., Gottfredson, D. C., Payne, A. A., & **Gottfredson, N. C.** (2005). School climate predictors of school disorder: Results from a National Study of Delinquency Prevention in Schools. *Journal of Research in Crime and Delinquency, 42*(4), 412–444. <https://doi.org/10.1177/0022427804271931>

Selected Presentations and Proceedings

- O'Shea, N. G., Montgomery, B., Tonigan, A.T., Yang, Y., & Ridenour, T.A. (2023). *Development of a multidimensional moderated nonlinear factor analysis model of alcohol, cannabis, and opioid involvement using the National Survey on Drug Use and Health*. Presented at the annual meeting of the Society for Prevention Research in Washington, DC.
- Gottfredson, N. C.** (Invited). (2020). *Identifying multivariate trajectories of HIV risk behaviors for adolescent and young women in South Africa*. Presented to the annual Social Determinants of Health HPTN 068 meeting (online due to COVID).

- Gottfredson, N. C.** (2020). *Predicting convictions during adulthood from patterns of teen dating violence perpetration and contextual moderators*. Paper presented at the annual meeting of the Society for Prevention Research (online due to COVID).
- Gottfredson, N. C., & Rhodes, B. E.*** (Invited). (2018). *Findings from the electronic study of affect regulation: A report back to community participants*. Presented to patients and staff at UNC Horizons Clinic, Carrboro, NC.
- Rhodes, B. E.*, & **Gottfredson, N. C.** (2018). *Ecological momentary assessment methods for relapse reporting*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Freeman, L. K.*, & **Gottfredson, N. C.** (2017). *Using ecological momentary assessment to assess sleep quality and cravings in those recovering from addiction*. Poster presented at the annual meeting of the Society for Behavioral Medicine, San Diego, CA.
- Gottfredson, N. C.** (2017). *Assessing for reactivity to an ecological momentary assessment protocol using data from individuals recovering from addiction*. Poster presented at the annual meeting of the Society for Behavioral Medicine, San Diego, CA.
- Gottfredson, N. C.** (Invited). (2017). *On the problem of unreliability when parsing within- and between-person effects in longitudinal growth models*. Workshop presented at the annual meeting of the Society for Research on Alcoholism, Denver, CO.
- Tuttle, H. M.*, & **Gottfredson, N. C.** (2017). *Does primary substance type predict unhealthy eating patterns during recovery?* Poster presented at the annual meeting of the American Public Health Association, Atlanta, GA.
- Tuttle, H. M.*, & **Gottfredson, N. C.** (2017). *The role of stress and negative affect in food consumption for individuals with comorbid addiction to food and illicit substances*. Poster presented at the annual meeting of the Society for Behavioral Medicine, San Diego, CA.
- Gottfredson, N. C.** (Invited). (2016). *Nutritional and behavioral correlates of food addiction*. Presented to the Center for Excellence in Eating Disorders, Chapel Hill, NC.
- Gottfredson, N. C.** (2016). *Reducing bias and increasing precision in the measurement of health disparities*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Gottfredson, N. C.** (Invited). (2016). *Statistical modeling of trajectories of human health and behavior*. Presented at the Child Wellbeing Meeting for Doris Duke Fellows, Duke University, Durham, NC.
- Tuttle, H. M.*, & **Gottfredson, N. C.** (2016). *Effects of stress on nutritional patterns in people recovering from addiction*. Poster presented at the annual meeting of the American Public Health Association, Denver, CO.
- Gottfredson, N. C.** (Invited). (2015). *Relaxing assumptions about missing waves of data in longitudinal studies within a mixed regression modeling framework*. Presented at the UNC Quantitative Psychology forum, Chapel Hill, NC.
- Gottfredson, N. C.** (2015). *Relaxing the MAR assumption with a multiple imputation model for longitudinal data*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Gottfredson, N. C., Davisson, E. K., & Hoyle, R. H.** (2013). *Re-conceptualizing reactivity to ecological momentary assessment procedures*. Poster presented at the annual meeting of The Society for Personality and Social Psychology, New Orleans, LA.
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- Gottfredson, N. C.** (2012) *Modeling change in the presence of non-randomly missing data*. Paper presented at a symposium on indirect applications of mixture models at the Modern Modeling Methods Meeting, Storrs, CT.
- Gottfredson, N. C.** (2010). *Evaluating latent pattern mixture models for handling non-ignorably missing data*. Paper presented at the Society for Multivariate and Experimental Psychology meeting, Atlanta, GA.
- Gottfredson, N. C., & Bauer, D.J.** (2010). *Evaluating latent pattern mixture model performance with non-randomly missing longitudinal data*. Paper presented at the Psychometrics Society meeting, Athens, GA.
- Gottfredson, N. C., & Bauer, D.J.** (2009). *Exploring the efficacy of latent class pattern mixture models for handling non-randomly missing data*. Poster presented at the Psychometrics Society meeting, Cambridge, England.
- Gottfredson, N. C., Stucky, B. D., Panter, A. T., Daye, C. E., Allen, W. A. & Wightman, L. F.** (2008). *Local dependence in the Everyday Discrimination Scale: Findings and suggestions*. Poster presented at the Association for Psychological Science, Chicago, IL.
- Gottfredson, N. C.** (2006). *Age differences in the ability to flexibly shift memory criterion for old-new judgments*. Poster presented at the Joint Sciences Department Annual Symposium for Summer Student Research, Claremont, CA.
- Gottfredson, N. C.** (2004). *After school program participation and delinquency: A replication study*. Paper presented at annual meeting of the American Society of Criminology, Nashville, TN.

Technical Reports

- World Health Organization. (2022, May). *Understanding the behavioral and social drivers of vaccine uptake: WHO position paper*. Geneva, Switzerland: World Health Organization Weekly Epidemiological Record. Contributor.
- World Health Organization. (2022). *Behavioral and social drivers of vaccination: Tools and practical guidance for achieving high uptake*. Geneva, Switzerland.
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