

CURRICULUM VITAE

JANE METRIK, Ph.D.

PROFESSOR, DEPARTMENT OF BEHAVIORAL AND SOCIAL SCIENCES

PROFESSOR, DEPARTMENT OF PSYCHIATRY AND HUMAN BEHAVIOR

BROWN UNIVERSITY

SUMMARY OF RESEARCH

Using a translational behavioral pharmacology approach, my research program has advanced understanding of the chronic and acute effects of cannabis on alcohol use, psychiatric comorbidity, and behavioral impairment affecting safety-critical activities such as driving. Across laboratory experiments, clinical trials, and real-world observation, my work links mechanistic insights to meaningful clinical and policy outcomes. Since establishing the first human cannabis administration laboratory at Brown University 20 years ago, I have conducted the first balanced-placebo study of cannabis disentangling pharmacologic and expectancy effects, developed paradigms for cannabis cue reactivity, and provided the first experimental evidence that cannabis acutely reduces alcohol consumption. My research has clarified associations between cannabis use disorder, PTSD, depression, and other mood disorders, informing interventions to improve treatment adherence and substance use outcomes. More recently, I have focused on developing technology-based, objective methods to assess cannabis-related impairment using mobile sensing, GPS, ecological momentary assessment, and machine learning to detect functional deficits in real time. I have led nine federal awards, including six NIH R01s, contributing to a total of 24 federally sponsored projects, and currently direct five federally funded studies. Collectively, this program has pioneered evidence-based approaches to cannabis science, public health, and clinical decision-making.

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CURRICULUM VITAE

JANE METRIK, Ph.D.

PERSONAL INFORMATION

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Electronic Mail: Jane_Metrik@brown.edu

EDUCATION

Undergraduate University of Washington, Bachelor of Science in Psychology with Honors and Minor in Anthropology, 1998

The George Washington University, Washington, D.C., 1994-1996
– Dean's List, Alumni Scholarship, Psychology Honors Program

Advanced Degrees Master of Science in Psychology (Clinical), San Diego State University, 2002

Doctorate of Philosophy in Clinical Psychology, University of California, San Diego/San Diego State University Joint Doctoral Program in Clinical Psychology, Specialty Track: Behavioral Medicine, 2004

Brown University Medical School Clinical Psychology Training Consortium, Clinical Psychology Internship, 2003-2004

POSTGRADUATE TRAINING

Postdoctoral Fellowship Brown University Center for Alcohol and Addiction Studies, NIDA-funded T32 "Substance Abuse Intervention Outcome Research Training" Research Fellowship, 2004-2007

PROFESSIONAL TRAININGS

Trained and Accredited in *Cognitive and Behavioral Therapy for the Management of Chronic Pain (CBT-CP)*

Trainer and Consultant, *Cognitive and Behavioral Therapy for Substance Use Disorders Among Veterans*, Veteran Affairs Central Office

ACADEMIC APPOINTMENTS

Professor, Department of Behavioral and Social Sciences, Center for Alcohol and Addiction Studies, Brown University School of Public Health, 7/1/2022- present (primary appointment)

Professor, Department of Psychiatry and Human Behavior, Alpert Medical School, Brown University, 7/1/2022- present (secondary appointment)

Affiliate Professor, Institute of Cognitive Brain Health and the Center for Drug Discovery, Bouvé College of Health Sciences, Northeastern University, 7/6/2026-present

Associate Professor, Department of Behavioral and Social Sciences, Center for Alcohol and Addiction Studies, Brown University School of Public Health, 7/1/2017- 6/30/2022 (primary appointment)

Associate Professor, Department of Psychiatry and Human Behavior, Alpert Medical School, Brown University, 7/1/2017- 6/30/2022 (secondary appointment)

Assistant Professor, Department of Behavioral and Social Sciences, Center for Alcohol and Addiction Studies, Brown University School of Public Health, 2007- 2017 (primary appointment)

Assistant Professor, Department of Psychiatry and Human Behavior, Alpert Medical School, Brown University, 2014- 2017 (secondary appointment)

Member, Training Faculty, Center for Alcohol and Addiction Studies, Department of Community Health, Brown University School of Public Health, 2008-present

Post-doctoral Fellow/Research Associate, Department of Community Health, Center for Alcohol and Addiction Studies, Warren Alpert Medical School of Brown University 2004-2007

HOSPITAL AND CLINICAL APPOINTMENTS

Research Psychologist, Research Service, Providence VA Medical Center, Providence, RI, 2022-Present

Psychologist, Collaborative Addiction Recovery Service, Mental Health and Behavioral Sciences Service, Providence VA Medical Center, 2013-2022

Consultant and Regional Trainer, *Cognitive and Behavioral Therapy for Substance Use Disorders Among Veterans*, Veteran Affairs Central Office, 2014-2022

Research Clinician, Randomized Clinical Trial, “Development of Positive Psychotherapy for Smoking Cessation” (CA156241, Kahler) 2011-2013

Research Clinician, Randomized Clinical Trial, “Improving Smoking Cessation Outcomes in Heavy Drinkers” (DA015534, Kahler) 2005-2007

Clinical Psychology Intern, Brown University Medical School (2003-2004):

Providence VA Medical Center Butler Hospital

830 Chalkstone Avenue
Providence, RI 02908-4799

345 Blackstone Boulevard
Providence, Rhode Island 02906

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Licensed Psychologist, State of Rhode Island PS01010, Active and Unrestricted since 04/2007

HONORS AND AWARDS

Brown Mid-Career Research Achievement Award, Brown University, 2026

Mark Wood Outstanding Mentor Award, Brown University Center for Alcohol & Addiction Studies, 2019

Honorary Degree, Master of Arts Ad Eundem, Brown University, 2018

Certificates of Outstanding Contribution in Reviewing: Drug and Alcohol Dependence, Addictive Behaviors, Psychiatry Research (Elsevier), 2016-2018

National Institute on Alcohol Abuse and Alcoholism (NIAAA) Travel Award to present at the International Society for Biomedical Research on Alcoholism (ISBRA) Congress, 2010

First prize, Research Symposium, Brown University Department of Psychiatry, Warren Alpert Medical School, 2007

National Institute on Drug Abuse Director's Travel Award to present at the College on Problems of Drug Dependence Conference, 2007

National Institute of Health Clinical Research Loan Repayment Program (funded through National Institute on Drug Abuse), 2005-2009

Research Excellence Award, Brown University Center for Alcohol and Addiction Studies, 2005

Enoch Gordis Research Recognition Award, Research Society on Alcoholism, 2002

Student Merit/Junior Investigator Award, Research Society on Alcoholism, 2002

UNIVERSITY AND HOSPITAL COMMITTEES AND PROFESSIONAL ACTIVITIES

Promotion Review Committee Member for Lauren Micalizzi, Department of Behavioral and Social Sciences, Brown University School of Public Health, 2026-present

Promotion Review Committee Member for Rachel Gunn, Department of Behavioral and Social Sciences, Brown University School of Public Health, 2023-2024

Associate Professor review committee, Center for Alcohol and Addiction Studies, Brown University, 2025-present

Research Excellence Program (REP) Committee, Center for Alcohol and Addiction Studies, Brown University, 2024-present; REP Co-Chair, 2026-present

Clinical Psychology Training, Adult Track faculty member, Department of Psychiatry and Human Behavior, Brown University Warren Alpert Medical School, 2013-present

Committee on Public Health Faculty Appointments (PHFA), Brown University, 2022-2025

Institutional Review Board (alternate), Providence VAMC, 2015-present

Staff Research Day Committee member/reviewer, Center for Alcohol and Addiction Studies, Brown University, 2023-2024

Postdoctoral Training and Admissions Committee, NIDA/NIAAA Postdoctoral Fellowship Program, Center for Alcohol and Addiction Studies, Brown University, 2009-2011

Research Excellence Awards Committee, Center for Alcohol and Addiction Studies, Brown University, 2010-2014

DATA AND SAFETY MONITORING BOARDS (DSMB):

R01DA059234 (Bidwell): “Hemp-derived Cannabidiol for the treatment of cannabis use disorder in concentrate users: A double-blind placebo-controlled randomized trial”, DSMB Chair, 2023-present

R01AG079502 (Hutchison): “Cannabidiol for Individuals at Risk for Alzheimer's Disease: A Randomized Placebo Controlled Trial”, DSMB Chair, 2023-present

R01AT009541 (Bidwell): “An Observational Study of Effects of Edible Cannabis and its Constituent Cannabinoids on Pain, Inflammation, and Cognition”, 2018-2023

RX003338 (McGeary; VA CfNN RR&D, SPiRE): “sTMS Administration for Substance Use-Disordered Veterans”, 2022-2023

R01DA024652 (Rohsenow): “Varenicline and Motivational Advice for Smokers with SUD”

R01AA017181 (Kahler): “Naltrexone for At-Risk and Problem Drinking in Smoking Cessation Treatment”

NATIONAL SERVICE

Research Society on Marijuana, President, 2027-2030; Board of Directors, 2021- present

Editorial Board, Consulting Editor, *Psychology of Addictive Behaviors*, 2011-present;

Editorial Board, *Substance Abuse: Research & Treatment*, 2008 – present

Editorial Board, *Frontiers in Addictive Disorders*, a specialty section of *Frontiers in Psychiatry*, 2010 – present

Mentor, Research Society on Alcohol’s Career Development and Training Committee's mentoring program, 2025-present

Executive Planning Committee member for the VA CSR&D “Trial of Cannabis Derivatives in Neuropathic Pain”, 2020-current

Member, The Systematically Testing the Evidence on Marijuana (STEM) Technical Expert Panel (TEP), a collaborative Veterans Affairs and Oregon Health & Science University project, 2020-current

Guest Editor for a special topic on Alcohol and Cannabinoids for *Alcohol Research: Current Reviews (ARCR)*, 2020-2022

Collaborative Perspectives on Addiction Meeting, invited mentor at student-mentor lunch, 2019 and 2021

Abstract reviewer of APA Division 50 (Addiction Psychology) Program proposals, 2013

College on Problems of Drug Dependence (CPDD) Travel Awards Committee, 2010-2013

GRANT REVIEWING

Ad Hoc Reviewer for the VA HSR-4 Mental and Behavioral Health; Health Services Research/ORD, 2025 and 2026

Ad Hoc Reviewer for the Center for Medicinal Cannabis Research (CMCR) Grants Program at the University of California, San Diego, 2025

Ad Hoc Reviewer for the National Institute on Drug Abuse (NIDA) Drug Supply Program, 2025, 2024, 2008

Ad Hoc Reviewer for the VHA ZRD1 DEIR-N (01) 1 - Diversity, Equity, and Inclusion Review Committee, 2024

Ad Hoc Reviewer for the National Institute of Health (NIH), HEAL Initiative: Helping to End Addiction Long-term Special Emphasis Panel (ZRG1 SCIL-D 50), 2023

Ad Hoc Reviewer for the National Institute of Health (NIH), Small Business: Addiction, Mental Health, Community and Health Disparities (SBIR) Committee, 2022

Ad Hoc Reviewer for the National Institute of Health (NIH), Small Business: Addiction, Mental Health, Community and Health Disparities (SBIR) Committee, 2021

Ad Hoc Reviewer for the National Institute of Health (NIH), Community Influences on Health Behavior (CIHB) study section, 2019

Ad Hoc Reviewer for the National Institute of Health (NIH) Member Conflict: Healthcare Delivery and Methodologies Special Emphasis Panel, 2019

Ad Hoc Reviewer for the State of Florida's Medical Marijuana Research and Education (MMRE) Program, 2018

Ad Hoc Reviewer for the National Institute of Health (NIH), The Interventions to Prevent and Treat Addictions (IPTA) study section (former Risk, Prevention and Intervention for Addictions, RPIA), 2016

Ad Hoc Reviewer for the National Institute of Health (NIH) study section-NIDA B/START (ZDA1 GXM-A), 2009-2011

ACADEMIC REVIEWING

2026 External Reviewer, Promotion and Tenure Review, University of Illinois Urbana-Champaign

2025 External Reviewer, Promotion and Tenure Review, University of Colorado

2023 External Reviewer, Promotion and Tenure Review, York University

2022 External Reviewer, Promotion and Tenure Review, University of North Texas

JOURNAL MANUSCRIPT PEER REVIEWER

Addiction

Addictive Behaviors

Addiction Research & Theory

Alcohol and Alcoholism

Alcoholism: Clinical and Experimental Research

The American Journal on Addictions

The British Journal of Pharmacology

The Campbell Collaboration

Cannabis

Cannabis and Cannabinoid Research

Cognitive Therapy and Research

Drugs and Aging

Drug and Alcohol Dependence

Evaluation and the Health Professions

Experimental and Clinical Psychopharmacology

Frontiers in Psychiatry

Health Psychology

Journal of Adolescent Health

Journal of American Medical Association (JAMA)

Journal of Clinical Psychiatry

Journal of Consulting and Clinical Psychology (JCCP)

Journal of Studies on Alcohol and Drugs

Journal of Studies on Alcohol Treatment

Journal of School Health

Journal of Psychiatric Research

Journal of Psychopharmacology

The Lancet Regional Health Americas

Mindfulness

Psychiatry Research

Psychology of Addictive Behaviors

Psychopharmacology

Science
Substance Abuse
Substance Abuse: Research & Treatment

INTERNATIONAL SERVICE

Member of the Clinical Panel for the development of a guideline for the management of cannabis use disorder, Canadian Institutes of Health Research's (CIHR)-funded grant, "Pharmacological and non-pharmacological interventions for management of cannabis use disorder: a clinical practice guideline" (PI: Sadeghirad), 2024-present

Reviewer for The Israel Science Foundation, Personal Research Grants, 2024, 2019

Reviewer for the Hetzler Foundation for Addiction Research (Germany), research grant proposals, 2022

Reviewer for the University of Camerino, Italy, doctoral dissertation of Dr. Haass, 2022

Member of the Scientific Advisory Board for the Michael G. DeGroote Centre for Medicinal Cannabis Research (CMCR), Hamilton, Ontario, Canada, 2018-present

MEMBERSHIP IN SOCIETIES

American Psychological Association, 1995-Present

College on Problems of Drug Dependence, Member, 2007-Present

Research Society on Alcoholism, 2001-Present

Research Society on Marijuana, 2021-Present

International Society for Biomedical Research on Alcoholism, 2010-Present

Association for Behavioral and Cognitive Therapies, 2009-Present

Psi Chi National Honor Society in Psychology, 1995-Present

PUBLICATIONS IN PEER-REVIEWED JOURNALS

* Publication from NIH/VA grants awarded to PI/MPI Metrik.

1. Waddell, J, Okey, S. A., **Metrik, J.**, Corbin, W. (in press). Continuing Cannabis Use After Initiation: The Role of Social Context, Craving, and Problem Severity During Acute Cannabis Use Episodes. *Addiction*.
2. Berey, B.L., Gunn, R.L., Aston, E.R., Borsari, B. **Metrik, J.*** (2026). Prospective Tests of the Acquired Preparedness Model for Alcohol and Cannabis Supports Between-Person Associations Among Veterans. *Journal of Studies on Alcohol and Drugs*.
<https://doi.org/10.15288/jsad.26-00019>

3. Shirley, K., Bolts, O., Pinto, L., Gaudiano, B.A. **Metrik, J.*** (2026). A Qualitative study of Veteran and provider perspectives on a novel acute care transitions intervention for co-occurring mood and substance use disorders. *Psychological Services*.
4. **Metrik, J***, Bush N, Gunn R, McCarthy D. (2026). Recent Advances in the Science of Cannabis-Impaired Driving. *Current Addiction Reports*, 13(1):8. doi: 10.1007/s40429-025-00712-0.
5. Thomas, S.A., Gonsalves, M.A., LeBlanc, G., Lorenc, E., Gilman, J., **Metrik, J.**, Frank, M., Ryan, S., Olenik, E., Brick, L., Spirito, A. (R&R). The role of subcortical brain tissue iron as an indicator of dopamine neurophysiology in adolescent cannabis use. *Neuropsychopharmacology*.
6. Bolts, O.L., Howe, L.K., Micalizzi, L., Pedersen, E.R., **Metrik, J.**, Battle, C.L., & Gunn, R.L. (2026). Use of cannabis protective behavioral strategies during pregnancy. *Cannabis*.
7. Howe, L. K., Micalizzi, L., Simmons, S. E., **Metrik, J.**, Battle, C. L., & Gunn, R. L. (2026). Intentions and motives for cannabis use in pregnancy and postpartum: Preliminary daily diary findings on planned and unplanned use. *Cannabis*. Advance online publication. <https://doi.org/10.26828/cannabis/2026/000366>.
8. Battle, C. L., Dreyer-Oren, S.E., Vijil Morin, A., Hoyt, M., **Metrik, J.**, Abrantes, A.M. (2026). Feasibility and acceptability of a physical activity intervention to reduce prenatal cannabis use: results of an open pilot trial. *Frontiers in Psychiatry*, 17. <https://doi.org/10.3389/fpsyt.2026.1729092>.
9. **Metrik, J.***, Aston, E.R., Gunn, R.L., Swift, R., MacKillop, J., & Kahler, C.W. (2026). Acute effects of cannabis on alcohol craving and consumption: a Randomized controlled crossover trial. *The American Journal of Psychiatry*, 183(2):134-143. doi: 10.1176/appi.ajp.20250115. Epub 2025 Nov 19. PMID: 41254853; PMCID: PMC12812287.
10. Gunn RL, Sokolovsky AW, Howe LK, Barnett NP, Jackson KM, Lipperman-Kreda S, Miranda R Jr, Trull T, **Metrik J.** (2026). Alcohol quantity mediates the association between daily alcohol and cannabis co-use and alcohol consequences. *Drug Alcohol Depend.* 279:113043. doi: 10.1016/j.drugalcdep.2026.113043. Epub ahead of print. PMID: 41546986.
11. Gunn, R. L., Howe, L. K., Boyle, H.K., & **Metrik, J.*** (2026). Working memory capacity predicts cannabis-induced effects on alcohol urge. *Addictive Behaviors*, 174, doi: 10.1016/j.addbeh.2025.108565. Epub 2025 Nov 19. PMID: 41275744.
12. Aston, E. R., Berry, B. L., Amlung, M., Swift, R. M., MacKillop, J. & **Metrik, J.** (2026). Is toke cheap? Correspondence between cannabis demand and purchase in the laboratory. *Addiction*. doi: 10.1111/add.70282. Epub ahead of print. PMID: 41521902.
13. Micalizzi, L., Howe, L.K., Battle, C., **Metrik, J.**, Gunn, R.L. (2025). Perinatal Cannabis Use, Depression, and the Mother-child Dyad: Protocol for a Prospective, Multi-method Study.

JMIR Research Protocols, 14:e71302. doi: 10.2196/71302. PMID: 41379533; PMCID: PMC12741660.

14. Howe, L. K., Boltz, O. L., **Metrik, J.**, Gunn, R. L. (2025). Simultaneous alcohol and cannabis use is associated with daily consequences reflective of alcohol use disorder symptoms. *Drug and Alcohol Dependence*, 276:112924 doi: 10.1016/j.drugalcdep.2025.112924.
15. Li R, Uche SC, Agu E, Grimone K, Herman DS, **Metrik J,*** Abrantes AM, Stein MD. (2025). Discriminating Between Marijuana and Alcohol Gait Impairments Using Tile CNN With TICA Pooling. *IEEE Open J Eng Med Biol*, 6, 540-548. doi: 10.1109/OJEMB.2025.3607556. PMID: 41221437; PMCID: PMC12599891.
16. Howe, L. K., Boyle, H.K., **Metrik, J.**, Trull, T. J., Lipperman-Kreda, S., Gunn, R. L. (2025). Intentions matter: How planned and unplanned alcohol and cannabis use influences outcomes. *Psychology of Addictive Behaviors*. doi: 10.1037/adb0001087. PMCID: PMC12342638.
17. Benz, M. B., Rudolph, J.L., Devone, F., Bayer, T., Garbin, A., Singh, M., Gravenstein, S., Hartronft, S., Toms, R., Gaudiano, B.A., **Metrik, J.**, Browne, J. (2025). Depressive symptoms before and during the COVID-19 pandemic in nursing home residents. *The International Journal of Geriatric Psychiatry*.
18. Aston, E. R., Benz, M., Souza, R., Berey, B.L., & **Metrik, J.** (2025). Using Prospective Mixed-Methods to Investigate the Impact of the COVID-19 Pandemic on Cannabis Demand. *Journal of the Experimental Analysis of Behavior*, 123:297-311. doi: 10.1002/jeab.70001.
19. Gunn, R. L., **Metrik, J.**, Barnett, N.P., Jackson, K.M., Lipperman-Kreda, S., Miranda, R., Trull, T.J., & Fernandez, M.E. (2024). Examining the Impact of Simultaneous Alcohol and Cannabis Use on Alcohol Consumption and Consequences: Protocol for an Observational Ambulatory Assessment Study in Young Adults. *Journal of Medical Internet Research*, 25, 13:e58685.
20. Waddell, JT, Corbin, WR, Grimm, KJ, **Metrik, J**, Lee, CM, Trull, TJ. (2024). Within-episode relations among simultaneous alcohol and cannabis use and continued drinking: The role of momentary subjective responses, craving, and drinking context. *Alcohol: Clinical and Experimental Research*, 48, 2175-2187.
21. Miller, M. B.,[^] Carpenter, R. W.,[^] Nance, M., Freeman, L. K., **Metrik, J.***, Borsari, B., McCrae, C. S., Merrill, J. E., Carey, K. B., & McGeary, J. E. (2024). Insomnia treatment effects on negative emotionality among veterans in treatment for alcohol use disorder. [^]Indicates shared first authorship. *Alcohol: Clinical and Experimental Research*, 48, 2126-2136.
22. **Metrik, J.*** & McCarthy, D.M. (2024). How research and policy can shape driving under the influence of cannabis. *Addiction*, 119, 208-210. doi: 10.1111/add.16372. Epub 2023 Oct 25.

PMID: 37877315; PMCID: PMC11104562.

23. Waddell, JT, Corbin, WR, Grimm, KJ, **Metrik, J**, Lee, CM, Trull, TJ. (2023). Dynamic relations among simultaneous alcohol and cannabis use, subjective responses, and problem drinking during naturally occurring drinking episodes. *Drug Alcohol Depend.* 2023 Aug 1;249:110837. doi: 10.1016/j.drugalcdep.2023.110837. Epub 2023 Jun 16. PMCID: PMC10330827.
24. Wightman R.S., **Metrik, J**, Lin, T.R., Collins, A. B., & Beaudoin, F. L. (2023). Cannabinoid hyperemesis syndrome: clinical trajectories and patterns of use three months following a visit to the emergency department. *Academic Emergency Medicine.* Jun 30. doi: 10.1111/acem.14773. Epub ahead of print. PMID: 37387520.
25. Kolp, H., Horvath, S., Munoz, E., **Metrik, J.**, & Shorey, R. C. (2024). Simultaneous Alcohol and Cannabis Use And High-Risk Sexual Behaviors. *Cannabis*, 7, 1-10.
26. Gebru, N. M., Aston, E. R., Berey, B. L., Leeman, R. F., & **Metrik, J.** (2023). “That’s pot culture right there”: Purchasing behaviors of recreational marijuana users. *Cannabis*, 6, 30-46. doi: 10.26828/cannabis/2023/000168. PMID: 37484054; PMCID: PMC10361802.
27. Miller, MB, Carpenter, R.W., Freeman, L.K., Dunsiger, S., McGeary, J., Borsari, B., McCrae, C.S., Arnedt, J.T., Korte, P., Merrill, J.E., Carey, K.B., & **Metrik, J.*** (2023). Cognitive Behavioral Therapy for Insomnia in Alcohol Treatment: A Randomized Controlled Trial. *JAMA Psychiatry*, 80: 905-913. doi: 10.1001/jamapsychiatry.2023.1971. PMID: 37342036; PMCID: PMC10285676
28. McCarty, K., Stevens, A., Gunn, R.L., Borsari, B., & **Metrik, J.*** (2023). Prospective Mediation of the Effects of Anxiety Sensitivity and Distress Intolerance on Alcohol and Cannabis Involvement via Depressive Symptoms in Veterans. *Journal of Alcohol and Drug Studies*, 84:535-545. doi: 10.15288/jsad.22-00257. PMID: 37096769; PMCID: PMC10488313.
29. Collins, A., Beudoin, F., **Metrik, J.**, & Wightman, R.S.. (2023). “I still partly think this is bullshit”: A qualitative analysis of cannabinoid hyperemesis syndrome perceptions among people with chronic cannabis use and cyclic vomiting. *Drug and Alcohol Dependence*, 246:109853. doi: 10.1016/j.drugalcdep.2023.109853. Epub 2023 Mar 24. PMID: 36996524; PMCID: PMC10121940.
30. Wightman, R.S., **Metrik, J.**, Lin, T.R., Li, Y., Badea, A., Almeida, R., Collins, A., & Beudoin, F. (2023). Cannabis use patterns and whole blood cannabinoid profiles of emergency department patients with suspected cannabinoid hyperemesis syndrome. *Annals of Emergency Medicine*, 82, 121-130.
31. Aston, E. R., Meshesha, L. Z., Stevens, A. K., Borsari, B., & **Metrik, J.*** (2023). Cannabis demand and use among veterans: A prospective examination. *Psychology of Addictive Behaviors*, 37, 985-995. doi: 10.1037/adb0000916. Epub ahead of print. PMID: 37079805.

32. Kolp, H., Horvath, S., Fite, P. J., **Metrik, J.**, Stuart, G. L., Lisdahl, K., & Shorey, R. C. (2024). Development of the Alcohol and Cannabis Simultaneous Use Scale (ACSUS) in College Students. *Journal of Substance Use*, 29, 509-516.
33. González-Roz, A., Martínez-Loredo, V., Aston, E.R., **Metrik, J.**, Murphy, J., Balodis, I., Secades-Villa, R., Belisario, K., & MacKillop, J. (2023). Concurrent validity of the Marijuana Purchase Task to assess cannabis demand: an initial meta-analysis. *Addiction*, 118:620-633. doi: 10.1111/add.16075. Epub 2022 Nov 22. PMID: 36305652; PMCID: PMC10020890.
34. Berey, B. L., Aston, E.R., Kearns, N., McGeary, J., Borsari, B., & **Metrik, J. *** (2022). Prospective associations between sleep disturbances and cannabis use among veterans: a behavioral economic approach. *Addictive Behaviors*, 134. doi: 10.1016/j.addbeh.2022.107424. Epub ahead of print. PMID: 35863267
35. **Metrik, J.*** & Patel, S. (2022). Alcohol and cannabinoids: from the editors. Part of the topic series: Alcohol and Cannabinoids. *Alcohol Research: Current Reviews*, 42: 04.
36. Schultz, N. R., Aston, E. R., **Metrik, J.**, & Ramirez, J. J. (2023). Can I see some ID? Examining validity of the marijuana purchase task among late adolescent cannabis users. *Experimental and Clinical Psychopharmacology*, 31, 238-247.
37. Waddell, J.T., King, S.E., Okey, S.A., Meier, M.H., **Metrik, J.**, & Corbin, W.R. (2022). The Anticipated effects of simultaneous alcohol and cannabis use: Initial development and preliminary validation. *Psychological Assessment*, 34, 811-826.
38. Kearns, N., Gunn, R.L., Stevens, A., Berey, B., & **Metrik, J.*** (2022). Longitudinal Associations between Impulsivity and Alcohol and Cannabis Use Frequency, Quantity, and Problems among Military Veterans. *Psychology of Addictive Behaviors*, 36, 762-774.
39. Gunn, R. L., Aston, E. R., & **Metrik, J.** (2022)*. Patterns of cannabis and alcohol co-use: Substitution versus complementary effects. *Alcohol Research: Current Reviews*, 42: 04. PMCID: PMC8855954
40. Benz, M. B., Aston, E. R., Mercurio, A. N., **Metrik, J.** (2021). The Potential impact of legalization of recreational cannabis among current users: a qualitative inquiry. *Journal of Psychoactive Drugs*, 8, 1-8.
41. Miller, M.B., **Metrik, J.***, McGeary, J.E., Borsari, B., McCrae, C.S., Maddoux, J., Arnedt, J.T., Merrill, J.E., & Carey, K.B. (2021). Protocol for the Project SAVE Randomized Controlled Trial Examining CBT for Insomnia among Veterans in Treatment for Alcohol Use Disorder. *BMJ Open*, 11, pp. e045667, PMID: 34103317; PMCID: PMC8190049.
42. Waddell, J.T., Gunn, R., Corbin, W.R., Borsari, B., & **Metrik, J.*** (2021). Drinking Less on Cannabis Use Days: The Moderating Role of UPPS-P Impulsive Personality Traits. *Psychology of Addictive Behaviors*, 35, 737-748.

43. Kearns, N. T., Blumenthal, H., Contractor, A. A., Aston, E. R., & **Metrik J.** (2021). Effect of Trauma-Related Stress After Alcohol Consumption on Perceived Likelihood of Negative Consequences and Willingness to Drive. *Addictive Behaviors*, 6, 106836. doi: 10.1016/j.addbeh.2021.106836. PMID: PMC7956021.
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45. Gunn, R.L., Sokolovsky, A., Stevens, A.K., **Metrik, J.**, White, H., Jackson, K.M. (2021). Ordering in alcohol and cannabis co-use: Impact on daily consumption and consequences. *Drug and Alcohol Dependence*, 218.
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OTHER PEER REVIEWED PUBLICATIONS

1. **Metrik, J.** Cannabis and alcohol use. (2022). The Systematically Testing the Evidence on Marijuana Project. <https://www.cannabisevidence.org/clinician-resources/clinician-briefs/cannabis-and-alcohol-use/>
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PUBLICATIONS UNDER REVIEW

1. Waddell, J, Lee, C., Mermelstein, R., Merrill, J., **Metrik, J.**, Piasecki, T., Shiffman, S. (Under Review). Toward Dynamic Models of Substance Use: Advancing the Study of Recursive Episode-to-Episode Processes Using Ecological Momentary Assessment.
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7. Treloar-Padovano, H., Smith-LeCavalier, K., Gray, B., Aston, E.R., & **Metrik, J.*** (Under Review, Invited Submission). The Role of Subjective Response in Adolescent Cannabis Use Trajectories and Disorder Development.

PUBLISHED ABSTRACTS

1. Bush, N.J., Gunn, R. L., Aston, E. R., Swift, R., Kahler, C.W, **Metrik, J.** (2025). The impact of cannabis and drinking behavior on alcohol's physiological and subjective effects, *Alcohol Clin Exp Res.* 2025;49(Suppl. 1): 052.
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3. Wightman R.S., **Metrik, J.**, Lin, T.R., Li, Y., Badea, A., Collins, A. B., & Beaudoin, F. L. (2024). A Prospective Investigation of Emergency Department Patients With Suspected Cannabinoid Hyperemesis Syndrome. *Drug and Alcohol Dependence*, Volume 260, Supplement, T25. <https://doi.org/10.1016/j.drugalcdep.2023.110474>.

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23. **Metrik, J.**, Magill, M., Rohsenow, D.J., McGeary, J.E., Monti, P.M., and Kahler, C.W. (2010). Sexual risk behavior and heavy alcohol drinking among weekly marijuana users. *Alcoholism: Clinical and Experimental Research*, 34, Suppl-S3, P205.
24. Bekman, N.M., Diulio, A.R., Anderson, K.G., **Metrik, J.**, Trim, R.S., Myers, M.G., Brown, S.A. (2010). The role of alcohol-related cognitions in various stages of adolescent alcohol use. *Alcoholism: Clinical and Experimental Research*, Suppl-S2, P391.
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27. **Metrik, J.**, McCarthy, D.M., Frissell, K.C., & Brown, S.A. (2003). Predictive validity of adolescent alcohol cessation expectancies: A prospective analysis. *Alcoholism: Clinical and Experimental Research*, 27, Suppl, 599.
28. **Metrik, J.**, McCarthy, D.M., Frissell, K.C., MacPherson, L., & Brown, S.A. (2002). Alcohol cessation expectancy: a new application of behavioral theories of choice. *Alcoholism: Clinical and Experimental Research*, 26, 907A.
29. Frissell, K.C., McCarthy, D.M., D'Amico, E.J., **Metrik, J.**, & Brown, S.A. (2002). The impact of consent procedures on reported levels of adolescent substance use. *Alcoholism: Clinical and Experimental Research*, 26, 958A.
30. **Metrik, J.**, Frissell, K.C., McCarthy, D.M., D'Amico, E.J., & Brown, S.A. (2001). Self-change efforts for alcohol: What do adolescents prefer? *Alcoholism: Clinical and Experimental Research*, 25, 90A.
31. D'Amico, E.J., **Metrik, J.**, McCarthy, D.M., Frissell, K.C., Appelbaum, M. & Brown, S.A. (2001). Transitions in binge drinking among high school students. *Alcoholism: Clinical and Experimental Research*, 25, 90A.
32. D'Amico, E.J., **Metrik, J.**, & Brown, S.A. (2001). Adolescent utilization of alcohol services: barriers and facilitators. *Alcoholism: Clinical and Experimental Research*, 25, 98A.

BOOK CHAPTERS AND OTHER PUBLICATIONS

1. **Metrik, J.** & McCarty, K. (2023). Cannabis Withdrawal. In D. C. D'Souza, D. Castle, R.M. Murray, (Eds.), *Marijuana and Madness*, 3rd revised edition (pp. 285-298). Cambridge University Press. <https://doi.org/10.1017/9781108943246.028>
2. **Metrik, J.** & Ramesh, D. (2018). Cannabis Use Disorder. In J. MacKillop, G.A. Kenna, L. Leggio, & L.A. Ray (Eds.), *Integrating Psychological and Pharmacological Treatments for Addictive Disorders: An Evidence-Based Guide* (pp. 150-171). Routledge Press. <https://doi.org/10.4324/9781315683331-7>
3. **Metrik, J.** & Rohsenow, D.J. (2013). Understanding the role of substance expectancies in addiction. In J. MacKillop & H. de Wit (Eds.), *Handbook of Addiction Psychopharmacology*. The Wiley-Blackwell Press. pp. 459-487.
4. **Metrik, J.** (2010). Balanced-placebo design successfully adapted for use with marijuana. *The Brown University Digest of Addiction Theory and Application*, 29 (1), 8.
5. **Metrik, J.** (2007). The role of expectancies in marijuana use. *The Brown University Digest of Addiction Theory and Application*, 26 (7), 8.

INVITED INTERNATIONAL AND NATIONAL PRESENTATIONS

1. **Metrik, J.,** Sokolovsky, A. W., Gunn, R. L., Aston, E. R., Trull, T., Shang, Y., Chen, S., McCarthy, D.M. (2026, October). Predicting driving after cannabis use with real-time EMA and GPS data. Invited to present in the Novel Approaches To Detecting Cannabis-Related Impairment: Challenges and Opportunities session (Chairs: Marcotte, T., Karoly, H.) at the National Cannabis Research Conference (NCRC) in San Diego, CA.
2. **Metrik, J.** (2026, November). Cannabis and Alcohol Co-Use: Translational Perspectives from the Laboratory to Daily Life. Invited to present at the Advanced Alcohol Research Seminar at UC Berkeley.
3. **Metrik, J.** (2025, June). Cannabis's Impact on Alcohol Use. Invited oral presentation at the Polysubstance Use: Cutting-Edge Data, Barriers and Opportunities scientific meeting. Co-organized by the Research Society on Alcoholism (RSA) and the College on Problems of Drug Dependence and LSU Health Sciences Center in New Orleans, LA.
4. **Metrik, J.** (2024, February). The State of the Science on Cannabis: Clinical considerations. Presented nationwide webinar program coordinated by the National Mental Health and Suicide Prevention ECHO: Substance Use Disorders and Other Addictions Series, the Veterans Health Administration Central Office.
5. **Metrik, J.** (2023, December). Cannabis and Alcohol Co-Use and Comorbidity. Presented an invited webinar talk as part of the Cannabis Research Webinar Series coordinated by the Colorado State University-Pueblo Institute of Cannabis Research.
6. **Metrik, J.** (2023, October). Cannabis and Alcohol Co-Use and Comorbidity. Presented an invited talk at the Grand Rounds for the Department of Psychiatry at the Zucker Hillside Hospital, New York.
7. **Metrik, J.** (2023, March). Cannabis Legalization: the Impact on Mental Health. Presented an invited talk at the Grand Rounds for the Center for Addiction Medicine at the Massachusetts General Hospital.
8. **Metrik, J.** (2023, March). Cannabis Legalization: the Impact on Mental Health. Presented an invited lecture as part of the "Hot Topics in Public Health" seminar series in the Department of Health Sciences at Northeastern University.
9. **Metrik, J.** (2022, December). Pharmacologic and expectancy effects of cannabis on risk taking among college-aged young adults. Presented an invited talk at the National Collegiate Athletic Association (NCAA) Summit on Cannabis in Collegiate Athletics, Indianapolis, Indiana.
10. **Metrik, J.** (2021, October). The State of The Science on Cannabis Use Disorder. Presented nationwide webinar program coordinated by the National Mental Health and Suicide

Prevention ECHO: Substance Use Disorders and Other Addictions Series, the Veterans Health Administration Central Office.

11. **Metrik, J.** (2021, July). Invited Panelist on the Discussion of Approaches and Innovations to the Study of Cannabis Use in Human Subjects at the Research Society on Marijuana (RSMj) annual scientific meeting, virtual.
12. **Metrik, J.** (2020, December). Cannabis and Alcohol Co-Use and Comorbidity. Invited presentation for the Division on Substance Use Disorders at Columbia University Medical Center.
13. **Metrik, J.** (2020, April). Cannabis and Alcohol Co-Use. Invited presentation at the Dr. Deepak D'Souza research group meeting at Yale University School of Medicine.
14. **Metrik, J.** (2020, March). The State of the Science on Cannabis Use Disorder. Presented nationwide webinar program coordinated by Mental Health Services, the Veterans Health Administration Central Office.
15. **Metrik, J.** (2019, June). Invited Panelist for the “NIAAA-Supported Research: A Grantsmanship Workshop” at the Research Society on Alcoholism (RSA) 42nd annual convention, Minneapolis, MN.
16. **Metrik, J.** (February 2018). The pharmacological and expectancy effects of cannabis on problem behaviors. Presented an invited talk at the Michael G. DeGroote Centre for Medicinal Cannabis Research Conference, Hamilton, Ontario, Canada.
17. **Metrik, J.,** Jackson, K., Bassett, S., Aston, E.R., & Borsari, B. (May 2017). The mediating roles of sleep and coping motives in cannabis use and problems among returning veterans with Posttraumatic Stress and Major Depressive Disorders. Paper presented as part of the symposium entitled “Understanding and Managing Distress with Cannabis: Neuropsychiatric Comorbidity and Targets for Treatment” at the 29th annual Association for Psychological Science Convention, Boston, MA.
18. **Metrik, J.** (June 2010). Hashing Out the Story on Cannabinoids. Chair of an oral communications session at the annual meeting of the College on Problems of Drug Dependence, Scottsdale, AZ.
19. **Metrik, J.** (2009, June). New Approaches for Understanding Alcohol Expectancies. Moderator of a paper session at the Annual Scientific Meeting of Research Society on Alcoholism, San Diego, CA.

INTERNATIONAL PRESENTATIONS

1. Bush, N.J., Gunn, R. L., Aston, E. R., Swift, R., Kahler, C.W, **Metrik, J.** (2025, April). The Impact of Cannabis and Drinking Behavior on Alcohol’s Physiological and Subjective Effects. In Bush, N.J. (Chair), Beyond “How Much”: Dynamic Measures Of Alcohol

consumption and Their Impact On Health. Paper presented at the 48th Annual Research Society on Alcohol/International Society for Biomedical Research on Alcoholism (ISBRA) Congress, New Orleans, LA.

2. **Metrik, J.**, Aston, E.R., Boyle, H.K., Merrill, J., Yetter, K.M., Rogers, M.L., Jackson, K.M., (2024, July). Budtender Recommendations of Cannabis Products for Therapeutic and Recreational Use: A Cannabis Retailer Surveillance Study. In **E.R. Pedersen** (Chair), *Retail Cannabis Dispensaries: Examining Purchasing Behavior and Exposure to Product Marketing*. Paper presented at the 8th Annual Research Society on Marijuana meeting, Toronto, Ontario, Canada.
3. Jackson, K.M., Rogers, M.L., Aston, E.R., Yetter, K.M., Merrill, J., Boyle, H.K., **Metrik, J.** (2024, July). Point-of-sale Cannabis Marketing: Findings from a Direct Observation Study of Recreational Cannabis Outlets in Massachusetts. In **E.R. Pedersen** (Chair), *Retail Cannabis Dispensaries: Examining Purchasing Behavior and Exposure to Product Marketing*. Paper presented at the 8th Annual Research Society on Marijuana meeting, Toronto, Ontario, Canada.
4. **Metrik, J.** (2024, July). Discussant for B.L. Berey (Chair), Advancing Science on Cannabis' Potential Harms and Therapeutic Benefits: Insights from Experimental Cannabis Administration Studies. Symposium presented at the 8th Annual Research Society on Marijuana, Toronto, Ontario, Canada.
5. Omerjee, F.S., Gunn, R.L., Aston, E.R., Kahler, C.W., & **Metrik, J.** (2024, July). A prospective examination of cannabis and alcohol use associations during COVID-19 pandemic. Paper presented at the Research Society on Marijuana 8th Annual Research Scientific Meeting, Toronto, Ontario, Canada.
6. MacKillop, González-Roz, Martínez-Loredo, Aston, **Metrik, J.**, Balodis, I., Murphy, J., Secades-Villa, Belisario. (2024, July). Cannabis reinforcing value in relation to cannabis use and misuse: a meta-analysis of trait-level cannabis demand and cannabis involvement as measured by a marijuana purchase task. In M. Amlung (Chair) symposium. Paper presented at the 8th Annual Research Society on Marijuana meeting, Toronto, Ontario, Canada.
7. Smith-LeCavalier, K.N., Parnes, J. E., **Metrik, J.**, & Wardell, J. D. (2024, July). Grant Funding in Cannabis Research: Perspectives across training stages and US and Canadian mechanisms. Presented as part of panel discussion at the 8th Annual Research Society on Marijuana scientific meeting, Toronto, Ontario, Canada.
8. **Metrik, J.**, E.R. Aston, R.L. Gunn, R. Swift, J. MacKillop, C.W. Kahler (2021, June). Acute Effects of Cannabis on Alcohol Consumption: Moderation of Effects by Cannabis Use Patterns. In **J. Metrik** (Chair), *Cannabis Use in Vulnerable Populations: International Perspectives from Laboratory to Field Studies [Symposium]*. Paper presented at the 16th International Congress of Behavioral Medicine, virtual.

9. **Metrik, J.** (June 2021). Smoked Cannabis Decreases Alcohol Self-Administration in a Clinical Laboratory Paradigm: Potential Mechanism of Effect. In **J. Metrik** and R. Gunn (Co-Chairs), *Mechanism of Cannabis and Alcohol Co-Use: Laboratory-to-Field Perspectives [Symposium]*. Paper presented at the 44th Annual Meeting of the Research Society on Alcoholism Conference /International Society for Biomedical Research on Alcoholism (ISBRA) Congress, virtual.
10. Gunn, R.L., Sokolovsky, A., Stevens, A.K., **Metrik, J.**, White, H., Jackson, K.M. (June 2021). Ordering in alcohol and cannabis co-use: Impact on daily consumption and consequences. In **J. Metrik** and R. Gunn (Co-Chairs), *Mechanism of Cannabis and Alcohol Co-Use: Laboratory-to-Field Perspectives [Symposium]*. Paper presented at the 44th Annual Meeting of the Research Society on Alcoholism Conference /International Society for Biomedical Research on Alcoholism (ISBRA) Congress, virtual.
11. Stroud L, McCallum, Sokol N, Nolasco, **Metrik J.** Cannabis in Pregnancy: Perceptions of Prenatal Users and Patterns of Prenatal Use (2021, June). In **J. Metrik** (Chair), *Cannabis Use in Vulnerable Populations: International Perspectives from Laboratory to Field Studies [Symposium]*. Paper presented at the 16th International Congress of Behavioral Medicine, virtual.
12. **Metrik, J.**, Bassett, S., Aston, E.R., Jackson, K., & Borsari, B. (June 2017). Medicinal versus recreational cannabis use among returning veterans. Poster presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Montreal, Canada.
13. Aston, E.R., Farris, S. G., MacKillop, J., & **Metrik, J.** (June 2017). Latent factor structure of a behavioral economic marijuana demand curve. Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Montreal, Canada.
14. Farris, S. G., Aston, E. R., Zvolensky, M. J., Abrantes, A. M., & **Metrik, J.** (March 2017). Psychopathology and tobacco demand. Poster presented at the 2017 Annual Convention of the Society for Research on Nicotine and Tobacco, Florence, Italy.
15. Palmer, RHC, McGeary, J.E., Knopik, V.S., and **Metrik, J.** (October 2015). Cannabinoid receptor gene (CNR1) and FAAH variation and affective states induced by marijuana smoking. Poster presented at the Pharmacogenetics in Psychiatry and World Congress on Psychiatric Genetics meetings, Toronto, Canada.
16. **Metrik, J.**, Magill, M., Rohsenow, D.J., McGeary, J.E., Monti, P.M., and Kahler, C.W. (September 2010). Sexual risk behavior and heavy alcohol drinking among weekly marijuana users. Poster presented at the International Society of Biomedical Research on Alcoholism, Paris, France.
17. **Metrik, J.**, Monti, P.M., Rohsenow, D., Kahler, C., and McGeary, J. (2007, June). Marijuana Drug and Expectancy Effects on Subjective and Behavioral Measures. Poster presented at the 69th Annual Scientific Meeting of the College on Problems of Drug Dependence, Quebec, Canada.

18. **Metrik, J.**, Frissell, K.C., McCarthy, D.M., D'Amico, E.J., & Brown, S.A. (2001, June). Self-change efforts for alcohol: what do adolescents prefer? Poster presented at the 24th Annual Scientific Meeting of the Research Society on Alcoholism, Montreal, Canada.
19. D'Amico, E.J., **Metrik, J.**, McCarthy, D.M., Frissell, K.C., Appelbaum, M. & Brown, S.A. (2001, June). Transitions in binge drinking among high school students. Poster presented at the 24th Annual Scientific Meeting of the Research Society on Alcoholism, Montreal, Canada.
20. D'Amico, E.J., **Metrik, J.**, & Brown, S.A. (2001, June). Adolescent utilization of alcohol services: barriers and facilitators. Poster presented at the 24th Annual Scientific Meeting of the Research Society on Alcoholism, Montreal, Canada.

NATIONAL PRESENTATIONS

1. **Metrik, J.** Waddell, J.T., Gunn, R. L., Kahler, C.W, Aston, E. R., Swift, R. (June 2026). Unpacking Mechanisms of Cannabis' Complementary And Substitution Effects on Alcohol Use. In H. Karoly (Chair), High and Dry? Modern Insights into How Cannabinoids Influence Alcohol Use. Paper presented at the 49th Annual Research Society on Alcohol conference, San Antonio, TX.
2. **Metrik, J.** (June 2026). Warning about Cannabis Liking and Wanting: Linking Subjective Effects from Acute Response to Longitudinal Risk. Chaired symposium at the Research Society on Marijuana annual conference, 10th Annual Meeting, Albuquerque, NM.
3. Kirkpatrick, S., Gunn, R. L., Aston, E. R., Kahler, C.W, Swift, R., & **Metrik, J.** (July 2026). Distress intolerance moderates subjective response to cannabis. In **J. Metrik** (Chair), Warning about Cannabis Liking and Wanting: Linking Subjective Effects from Acute Response to Longitudinal Risk. Paper presented at the Research Society on Marijuana annual conference, 10th Annual Meeting, Albuquerque, NM.
4. **Metrik J.** (July 2025). Chair and Discussant for *Beyond the High: Advancing the Science of Cannabis Impairment*. Symposium presented at the Research Society on Marijuana annual conference, 9th Annual Meeting, Detroit, Michigan.
5. Bush, N., Abrantes, A., Lindsay, C., & **Metrik, J.** (July 2025). Gait in the Wild: Smartphone-Based Detection of Recent Cannabis Use in Natural Environments. In **J. Metrik** (Chair). *Beyond the High: Advancing the Science of Cannabis Impairment [Symposium]*. Presented at the Research Society on Marijuana annual conference, 9th Annual Meeting, Detroit, Michigan.
6. Gunn, R.L., Bush, N., Didier, N., & **Metrik, J.** (July 2025). Naturalistic Observation of Cannabis and Alcohol-Related Gait Impairments: Evidence from Ambulatory Assessment In

- Young Adults. In **J. Metrik** (Chair). *Beyond the High: Advancing the Science of Cannabis Impairment [Symposium]*. Presented at the Research Society on Marijuana annual conference, 9th Annual Meeting, Detroit, Michigan.
7. Thomas, S.A., Olenik, E., Ryan, S.K., Gonsalves, M.A. Gilman, J., **Metrik, J.**, Spirito, A. (July 2025). The Neurobehavioral Correlates of Adolescent Cannabis Use and ADHD Symptoms. In L. Micalizzi (Chair). *The Intersection of Neurodevelopmental Conditions and Cannabis Use [Symposium]*. Presented at the Research Society on Marijuana annual conference, 9th Annual Meeting, Detroit, Michigan
 8. **Metrik, J.**, Shirley, K., Bolts, O., Pinto, L., Gaudiano, B.A. (2025, April). Veteran and Provider Perspectives on The Mood And Substance Use Disorder Treatment Adherence Program. Poster presented at the Society of Addiction Psychology (APA Division 50's) annual Collaborative Perspectives on Addiction Conference, Providence, RI.
 9. Bush, N.J., Aston, E. R., Gunn, R. L., Swift, R., Kahler, C.W, **Metrik, J.** (2025, April). The Impact of Cannabis Use on Subsequent Alcohol Consumption and Subjective Cannabis Effects. Symposium presented at the Society of Addiction Psychology (APA Division 50)'s annual Collaborative Perspectives on Addiction Conference, Providence, RI.
 10. Amin, J., Omerjee, F.S., Zurawel, J., Buckey, H., Milkani, E., & **Metrik, J.** (2025, April). Detection of THC in Saliva and Exhaled Breath: Field-based Methods. Poster presented at the Society of Addiction Psychology (APA Division 50)'s annual Collaborative Perspectives on Addiction conference, Providence, RI.
 11. Thomas, S., Ryan, S., Gonsalves, M., Olenik, E., Gilman, J., **Metrik, J.**, Spirito, A. (2025, April). A Biobehavioral Investigation of Adolescent Cannabis Use and Sleep. Symposium presented at the Annual Collaborative Perspectives on Addiction meeting, Providence, RI.
 12. Howe, L. K., Micalizzi, L., **Metrik, J.**, Battle, C. L., & Gunn, R. L. (2025, April). *Real time effects of cannabis on affect in pregnancy*. [Conference session]. Symposium presented at the Annual Collaborative Perspectives on Addiction meeting, Providence, RI.
 13. Micalizzi, L., Howe, L., **Metrik, J.**, Battle, C.L., Gunn, R. (2025, April). Associations Between Lifetime Trauma and Prenatal Cannabis Use. Poster presented at the Society of Addiction Psychology (APA Division 50)'s annual Collaborative Perspectives on Addiction conference, Providence, RI.
 14. Rossmann, G., Iyer, R.K., McSherry, M., Gaipo, A., Karnick, A., Benca-Bachman, C., Wightman, R., Metrik, J., Nugent, N. R., Brick, L.A. (2025, April). Cannabis Consumption Patterns and Trauma Exposure in Young Adult Users. Poster presented at the Society of Addiction Psychology (APA Division 50)'s annual Collaborative Perspectives on Addiction conference, Providence, RI.

15. Walt, G., Micalizzi, L., Howe, L., **Metrik, J.**, Battle, C.L., Gunn, R. (2025, April). Self-Reported Effectiveness of Cannabis for Symptom Management During Pregnancy. Poster presented at the Society of Addiction Psychology (APA Division 50)'s annual Collaborative Perspectives on Addiction conference, Providence, RI.
16. Shoemaker, S.D., Moskal, K. R., McGeary, J. E., **Metrik, J.**, McCrae, C.S., Borsari, B., & Miller, M. B. (2025, April). *Is cognitive behavioral therapy for insomnia reducing consequences of "alcohol use" or sleep?* Poster presented at the Society of Addiction Psychology (APA Division 50)'s annual Collaborative Perspectives on Addiction conference, Providence, RI.
17. Porter, A. M., Carpenter, R. W., Nance, M., **Metrik, J.**, Borsari, B., McCrae, C. S., Merrill, J. E., Carey, K. B., McGeary, J. E. & Miller, M. B. (2024, June). *Negative emotionality as a potential mechanism linking sleep and alcohol outcomes among Veterans*. Symposium presented at the Research Society on Alcohol annual conference, Minneapolis, MN.
18. Boyle, H.K., Aston, E.R., Merrill, J.E., Yetter, K., Tompkins, J., Gonzalez Trejo, A., Jackson, K. M., & **Metrik, J.** (April 2024). A qualitative inquiry of the influence of cannabis messaging on cannabis use across the lifespan. Symposium presented at the 12th Annual Collaborative Perspective on Addiction Conference, Denver, CO.
19. Nance, M., Carpenter, R. W., **Metrik, J.**, Borsari, B., McCrae, C. S., Merrill, J. E., Carey, K. B., McGeary, J. E. & Miller, M. B. (2024, April). *Insomnia Treatment Effects on Negative Emotionality among Veterans in Treatment for Alcohol Use Disorder*. Poster presented at the Collaborative Perspectives on Addiction annual conference, Denver, CO.
20. Thomas, S.A., Ryan, S.K., Gonsalves, M., **Metrik, J.**, Gilman, J., Frank, M., Olenik, E., Chouinard, B., Spirito, A. (2024, April). *Multimodal reward processing indices are associated with adolescent cannabis use*. Poster presented at the annual meeting for the Collaborative Perspectives on Addiction, Denver, CO.
21. Boyle, H. K., Gunn, R. L., Howe, L. K., Aston, E. R., Swift, R. M., Kahler, C. W., & **Metrik, J.** (2024, January). Cannabis use and cognitive functioning: Findings from a laboratory study. Symposium presentation at the Annual Meeting for the American Professional Society of ADHD and Related Disorders, Orlando, FL.
22. Rosenthal, N., Hostetler, K., Primack, J., Gaudiano, B.A., & **Metrik, J.** (2023, November). *Differential Relationships among Alcohol, Cannabis, and Other Drug Use with Psychiatric Severity in Veterans with Comorbid Mood and Substance Use Disorders*. Poster presented at the 57th Annual ABCT Convention, Seattle, WA.
23. Wightman RS, **Metrik J**, Lin T, Li Yu, Badea A, Collins A, Beaudoin F. (2023, June). A prospective investigation of emergency department patients with suspected cannabinoid hyperemesis syndrome. Poster presented at the College on Problems of Drug Dependence 85th Annual Scientific Meeting. Denver, CO.

24. Treloar Padovano, H., Aston, E., Miranda, R. Jr., & **Metrik, J.** (2023, July). Protocol for sensitivity to cannabis effects and cues as part of a developing disorder in adolescents. Poster presentation for the 7th Annual Scientific Meeting of the Research Society on Marijuana, Long Beach, CA.
25. Miller, M. B., Freeman, L. K., **Metrik, J.**, McGeary, J. E., Borsari, B., & McCrae, C. S. (2023, November). *Sex differences in CBT-I response among heavy-drinking adults*. Symposium presented to the annual meeting of the Society of Behavioral Sleep Medicine, San Diego, CA.
26. Wightman RS, **Metrik J.**, Lin T, Collins A, Beaudoin F. Cannabinoid hyperemesis syndrome: clinical trajectories and patterns of use two weeks following a visit to the emergency department for cyclic vomiting. *Clinical Toxicology*;61(2):A68. North American Congress of Clinical Toxicology (NACCT). September 2023. Montreal, Canada
27. **Metrik J.** (July 2023). Discussant for E. R. Aston (Chair). *Assessing Substance Reward Value among Those Who Use Cannabis: Examining Co-use, Executive Function, and Utility of Daily Assessment*. Presented at the Research Society on Marijuana, 7th Annual Meeting, Long Beach, California.
28. Aston, E. R., Gunn, R. L., Berey, B.L., MacKillop, J., Kahler, C., Swift, R., **Metrik, J.** (July 2023). Acute Effects of Cannabis and Alcohol Cue-Exposure on Relative Alcohol Valuation. In E. R. Aston (Chair). *Assessing Substance Reward Value among Those Who Use Cannabis: Examining Co-use, Executive Function, and Utility of Daily Assessment. [Symposium]*. Presented at the Research Society on Marijuana, 7th Annual Meeting, Long Beach, California.
29. Berey, B.L., Aston, E.R., Gunn, R.L., McGeary, J.E., Borsari, B., **Metrik, J.** Sleep quality and latency are prospectively associated with cannabis use and problems among veterans. Poster presented at the Collaborative Perspectives on Addiction Conference in Albuquerque, New Mexico, USA (2023).
30. **Metrik, J.**, Gunn, R. L., Aston, E. R., McCarty, K., Trull, T., & McCarthy, D. M. (July 2022). Geographically explicit momentary assessment to detect driving under the influence of cannabis. In **J. Metrik** (Chair), *Novel Technologies in Cannabis Assessment. [Symposium]*. Presented at the Research Society on Marijuana, 6th Annual Meeting, Boston, Massachusetts.
31. Aston, E.R., Berey, B.L., Chopra, M., Reginato, A.M., **Metrik, J.** (July 2022). Perception of cannabis as a potential adjunct treatment for rheumatic autoimmune conditions: A qualitative analysis. In J. Wardell (Chair), *Not just for fun: A closer look at motives, perceptions, and outcomes associated with medicinal cannabis use. [Symposium]*. Presented at the Research Society on Marijuana, 6th Annual Meeting, Boston, Massachusetts.

32. Waddell, J.T., Corbin, W.R., Meier, M.H., **Metrik, J.** (July 2022). The Development and Validation of Two Novel Measures to Assess Cannabis Expectancies and Simultaneous Alcohol and Cannabis Expectancies. In **J. Metrik** (Chair), *Novel Technologies in Cannabis Assessment. [Symposium]*. Presented at the Research Society on Marijuana, 6th Annual Meeting, Boston, Massachusetts.
33. **Metrik J.** (July 2022). Discussant for J. Wardell (Chair), *Not just for fun: A closer look at motives, perceptions, and outcomes associated with medicinal cannabis use*. Presented at the Research Society on Marijuana, 6th Annual Meeting, Boston, Massachusetts.
34. McCarty, K.N., Aston, E.R., Gunn, R.L., Jackson, K., Borsari, B., & **Metrik, J.** (July 2022). Prospective Associations between Cannabis Use and Health Functioning. In J. Parnes (Chair), *Behavioral and Physical Health among Adolescents and Young Adults who use Cannabis: Findings from Community, Treatment, and Veteran Populations. [Symposium]*. Presented at the Research Society on Marijuana, 6th Annual Meeting, Boston, Massachusetts.
35. Berey, B.L., Aston, E.R., Kearns, N.T., **Metrik, J.** (July 2021). Mechanisms linking sleep health and cannabis use among U.S. Veterans: A behavioral economic approach. Poster presented at the joint American Academy of Sleep Medicine and Sleep Research Society SLEEP conference, virtual.
36. Aston, E. R., Amlung, M., Swift, R., MacKillop, J. & **Metrik, J.** (March 2021). Is toké cheap? Correspondence between marijuana demand and purchase of marijuana in the laboratory. Symposium presented at Collaborative Perspectives on Addiction, 9th Annual Meeting. Presented virtually due to COVID-19.
37. Aston, E. R., Meshesha, L. Z., Stevens, A. K., Borsari, B., & **Metrik, J.** (July 2021). Cannabis demand and use among veterans: A prospective examination. Submitted to Research Society on Marijuana annual conference. Presented virtually due to COVID-19.
38. Gebru, N. M., **Aston, E. R.**, *Berey, B. L., Leeman, R. F., & Metrik, J. (March 2021). “That’s pot culture right there”: Purchasing behaviors of recreational marijuana users. Accepted to Collaborative Perspectives on Addiction, 9th Annual Meeting. Presented virtually due to COVID-19.
39. Kearns, N. T., Blumenthal, H., Contractor, A. A., Aston, E. R., & **Metrik J.** (August 2021). Effect of trauma-related stress after alcohol consumption on perceived likelihood of negative consequences and willingness to drive. *Submitted to American Psychological Association Annual conference. Presented virtually due to COVID-19.*
40. Berey, B.L., Aston, E.R., Kearns, N.T., **Metrik, J.** (2021). Mechanisms linking sleep health and cannabis use among U.S. Veterans: A behavioral economic approach. Poster accepted at the joint American Academy of Sleep Medicine and Sleep Research Society SLEEP conference.

41. Gaudiano, B.A., Rosenthal, N., Peters, G., Weinstock, L., Miller, I., **Metrik, J.** (June 2021). Using a values framework to address treatment adherence in individuals with co-occurring bipolar disorder and substance use following discharge from a psychiatric hospital. Conference presentation at the 2021 Association for Contextual Behavioral Science (ACBS), virtual.
42. Waddell, J.T., Gunn, R.L., Corbin, W.R., Borsari, B., & **Metrik, J.** (2021). Drinking Less on Cannabis Use Days: The Moderating Role of UPPS-P Impulsivity. Conference presentation at the 2021 Collaborative Perspectives on Addiction Meeting.
43. Kearns, N. T., Blumenthal, H., Contractor, A. A., Aston, E. R., & **Metrik J.** (2021). Effect of Trauma-Related Stress After Alcohol Consumption on Perceived Likelihood of Negative Consequences and Willingness to Drive. Poster submitted for presentation at the American Psychological Association annual conference (*virtual*, 2021).
44. Kolp, H., Horvath, S., Metrik, J., Lisdahl, K., & Shorey, R. (2020, June 20-24). *Frequency and Gender Differences of Simultaneous Alcohol and Marijuana-Related High-Risk Sexual Behaviors* [Poster presentation]. Research Society on Alcoholism Conference, New Orleans, LA, United States. (Conference cancelled)
45. Benz, M.B., Aston, E.R., Mercurio, A., & **Metrik, J.** (2020, April). Potential Impact of Legalization of Recreational Marijuana Among Current Users: Qualitative Inquiry. Poster presented at the 8th annual convention of the Collaborative Perspectives on Addiction, San Diego, CA.
46. Minhas, M., Aston, E. R., **Metrik, J.**, Murphy, J., & MacKillop, J. (*April 2020*). Investigating a modified marijuana purchase task to characterize cannabis demand in emerging adults. *Accepted to Collaborative Perspectives on Addiction, 8th Annual Meeting, San Diego, California. Not presented due to COVID-19.*
47. Li, R., Agu, E., Balakrishnan, G., Herman, D., Abrantes, A., Stein, M., & **Metrik, J.** (2019). WeedGait: Unobtrusive Smartphone Sensing of Marijuana-Induced Gait impairment By Fusing Gait Cycle Segmentation and Neural Networks. Poster presented at the annual IEEE Healthcare Innovations and Point of Care Technologies Conference (HI-POCT).
48. **Metrik, J.**, Aston, E.R., Gunn, R.L., MacKillop, J., Swift, R., & Kahler, C.W. Marijuana's effects on alcohol craving and consumption in a laboratory study (2019, June). In J.D. Wardell, J.E. Merrill (co-chairs), *Advancements in research on the cannabis-alcohol link: Part 1–Moderators and mediators across diverse populations* [symposium]. Paper presented at the 42nd annual convention of the Research Society on Alcoholism, Minneapolis, MN.
49. Gunn, R.L., Jackson, K. M., Borsari, B. **Metrik, J.** A longitudinal examination of daily patterns of marijuana and alcohol co-use among medicinal and recreational marijuana users (2019, June). In J.D. Wardell, J.E. Merrill (co-chairs), *Advancements in research on the cannabis-alcohol link: Part 1–Moderators and mediators across diverse populations*

[symposium]. Paper presented at the 42nd annual convention of the Research Society on Alcoholism, Minneapolis, MN.

50. **Metrik, J.**, Stevens, A., Gunn, R., Borsari, B., & Jackson, K. M. (2019, April). Clarifying links between cannabis use/disorder and PTSD: Results from a longitudinal veterans study. Paper presented as part of the symposium entitled “Understanding Negative Affect and Marijuana Use Co-Occurrence in Diverse Populations” at the Collaborative Perspectives on Addiction Annual Meeting, Providence, RI.
51. Kolp, H., Horvath, S., **Metrik, J.**, Lisdahl, K., Stuart, G. L., & Shorey, R. C. Development of the Simultaneous Alcohol and Marijuana Use (SAM-USE) Scale (2019, June). Poster presented at the annual convention of the Research Society on Alcoholism, Minneapolis, MN.
52. Gunn, R.L., Jackson, K.M., Borsari, B., & **Metrik, J.** (2019, August). Longitudinal associations between negative urgency, depression, and marijuana and alcohol use. Poster presented at the annual meeting of the American Psychological Association, Chicago, IL.
53. Vergara-Lopez, C., **Metrik, J.**, Papandonatos, G., Stroud, L.R. Prenatal tobacco and marijuana co-use: Impact on stress response. (2019, June). Poster presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, San Antonio, TX.
54. Stevens, A., Gunn, R., Jackson, K. M., Borsari, B., & **Metrik, J.** (2019, April). Examining motivational pathways from ADHD to cannabis use: Results from a prospective study of veterans. Poster presented at the Collaborative Perspectives on Addiction Annual Meeting, Providence, RI.
55. Battle, C.L., **Metrik, J.**, Ernst, S., Scott, B., Abrantes, A.M. (2019, March). Reasons for cannabis use among pregnant women: A preliminary study. Poster presented at the annual meeting of the Society for Behavioral Medicine, Washington, DC.
56. **Metrik, J.**, Gunn, L. R., Jackson, K., Sokolovsky, A., & Borsari, B. (June 2018). Daily patterns of marijuana and alcohol co-use among individuals with alcohol and cannabis use disorders. Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, San Diego, CA.
57. Gunn, L. R., Jackson, K., Borsari, B., & **Metrik, J.** (June 2018). Negative urgency partially accounts for the relationship between major depressive disorder and marijuana problems. Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, San Diego, CA.
58. Stewart, K., Farris, S., Jackson, K., Borsari, B., & **Metrik, J.** (June 2018). Cannabis Use Moderates Associations Between Physical Health and Anxiety Sensitivity and Distress Tolerance. Poster presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, San Diego, CA.

59. McCarthy, D.M., & Metrik, J. (April 2018). The Science of Cannabis and Driving. Paper presented at the Addiction Science conference: The Science and Policy of Cannabis at the University of Missouri, St. Louis.
60. Miller, M. B., **Metrik, J.**, & Borsari, B. (June 2017). Does sleep mediate mental health effects on alcohol problems in returning Veterans? Poster presented at the annual meeting of the Research Society on Alcoholism, Denver, CO.
61. Aston, E. R., **Metrik, J.**, Rosen, R., Midoun, M. M., Swift, R. M., & MacKillop, J. (March 2017). Marijuana purchase task: Using qualitative methods to inform measure development. Paper presented at the Collaborative Perspectives on Addiction, 5th Annual Meeting, Albuquerque, New Mexico.
62. Subbaraman, M.S., Patterson, D., **Metrik, J.**, Swift, R. (June 2016). Cannabis use during treatment for alcohol use disorders is associated with more frequent alcohol consumption. Presented at the Annual Scientific Meeting of the Research Society on Alcoholism, New Orleans, Louisiana.
63. Aston, E.R., Knopik, V., McGeary, J.E., MacKillop, J., and **Metrik, J.** (June 2016). Cannabinoid receptor gene (*CNR1*) polymorphism (rs2023239) associated with demand for marijuana. Paper presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Palm Springs, CA.
64. Subbaraman, M.S., Patterson, D., and **Metrik, J.** (March 2016). Cannabis use during treatment for alcohol use disorders is associated with greater alcohol consumption Presented at the Annual Scientific Meeting of the Collaborative Perspectives on Addiction, San Diego, CA.
65. Aston, E.R. and **Metrik, J.** (March 2016). Marijuana demand and problems as predictors of marijuana change efforts. Presented at the Annual Scientific Meeting of the Collaborative Perspectives on Addiction, San Diego, CA.
66. Benz, M., Borsari, B. E., and **Metrik, J.** (June 2016). Predictors of barriers to mental healthcare service utilization in returning Veterans. Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Palm Springs, CA.
67. **Metrik, J.**, Aston, E.R., Kahler, C.W., Rohsenow, D.J., McGeary, J.E., Knopik, V.S., & MacKillop, J. (June 2015). Multidimensional assessment of cue-elicited increases in incentive salience for marijuana. Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Phoenix, AZ.
68. Aston, E.R., **Metrik, J.**, Kahler, C.W., & MacKillop, J. (June 2015). Impulsivity and marijuana demand among frequent marijuana users. Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Phoenix, AZ.

69. Benz, M., **Metrik, J.**, & Borsari, B. E. (June 2015). Social support, cannabis misuse, and post-deployment depression in returning veterans. Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Phoenix, AZ.
70. Yurasek, A.M., Fernandez, A., Miller, M.B., **Metrik, J.**, & Borsari, B. Do alcohol-focused interventions reduce marijuana use in mandated college students? (June 2015). Presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Phoenix, AZ.
71. Aston, E. R., **Metrik, J.**, & MacKillop, J. (March 2015). Behavioral economic research on the etiology and prevention of young adult drug use. Presented at the Collaborative Perspectives on Addiction, 3rd Annual Meeting, Baltimore, Maryland.
72. Kahler, C.W., **Metrik, J.**, Spillane, N.S., Day, A., Leventhal, A.M., McKee, S.A., Tidey, J.W., McGeary, J.E., & Knopik, V.S., & Rohsenow, D.J. (2014, February). *Acute effects of low and high dose alcohol on smoking lapse behavior in a laboratory analogue task*. Paper presented at the 20th annual meeting of the Society for Research on Nicotine and Tobacco, Seattle, WA.
73. Day, A., Kahler, CW., **Metrik, J.**, Spillane, S., Tidey, J.W., & Rohsenow. D. (2014, June). Working memory moderates association of smoking urge and smoking behavior after alcohol administration in a laboratory analogue task. Presented at the annual meeting of the Research Society on Alcoholism, Bellevue, WA.
74. Aston, E.R., MacKillop, J., Cassidy, R., and **Metrik, J.** (June 2014). Initial validation of a marijuana purchase task. Poster presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, San Juan, Puerto Rico.
75. **Metrik, J.**, Spillane, N., & Kahler, C.W. (June 2013). Development and initial validation of a marijuana cessation expectancy scale. Poster presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, San Diego, CA.
76. **Metrik, J.**, Kahler, C.W., Rohsenow, D.J., McGeary, J. E. and Knopik, V. S. (June 2012). Marijuana's acute effects on attentional bias for affective cues. Poster presented at the Annual Scientific Meeting of the College on Problems of Drug Dependence, Palm Springs, CA.
77. Day, A. M., **Metrik, J.**, Spillane, N., and Kahler, C.W. (April 2012). Working memory as a predictor of marijuana problems among frequent users. Poster presented at the Brown's University Department of Psychiatry Research Day.
78. Bidwell, L.C., **Metrik, J.**, McGeary, J., Francazio, S., Knopik, V.S. (May, 2012). Variation in the Cannabinoid Receptor Gene (CNR1) and Impulsivity-related Phenotypes in Young Adult Marijuana Users: Preliminary data from an experimental study. In Bidwell, L.C.& Schacht, J.P (Co-chairs): Genetic Influences on Substance Use and Behavioral Disinhibition

Across Development: Brain, Behavior, and Heritability. Paper presented at the annual meeting of the International Behavioural and Neural Genetics Society, Boulder, Colorado.

79. Knopik, V. S., **Metrik, J.**, Bidwell, C., McGeary, J. E. (June, 2011). Variation in the Cannabinoid Receptor Gene (CNR1) and Marijuana Use: Preliminary data from an experimental study. Poster presented at the Behavior Genetics Association's 41st Annual Meeting, Newport, RI.
80. Bidwell, L.C., **Metrik, J.**, McGeary, J., Knopik, V.S. (June, 2011). The association between cannabinoid receptor 1 gene (CNR1) and impulsivity in young adult marijuana users. Poster presented at the Behavior Genetics Association's 41st Annual Meeting, Newport, RI.
81. Bekman, N.M., Anderson, K.G., **Metrik, J.**, Trim, R.S., Myers, M.G., & Brown, S.A. (June, 2011). Thinking and Drinking: Stages of Adolescent Alcohol Use and Differences in Alcohol-Related Cognitions. Paper presented at the Annual Scientific Meeting of Research Society on Alcoholism, Atlanta, Georgia.
82. Kahler, C.W., Metrik, J., Spillane, N.S., Tidey, J.W., Rohsenow, D.J., Leventhal, A.M., McKee, S.A., McGeary, J.E., & Knopik, V.S. (2011, February). Sex differences in stimulus expectancy and pharmacological effects of alcohol on smoking lapse risk in a laboratory analogue study. Paper presented at the Society for Research on Nicotine and Tobacco Annual Meeting, Toronto, Canada.
83. Metrik, J., Kahler, C., McGeary, J., Monti, P., & Rohsenow, D. (June, 2010). Acute effects of marijuana smoking on negative and positive affect. Paper presented at the annual meeting of the College on Problems of Drug Dependence, Scottsdale, AZ.
84. McGeary, J., Metrik, J., Knopik, V., Kahler, C., Monti, P., & Rohsenow, D. (June, 2010). Cannabinoid receptor gene (CNR1) polymorphism and marijuana's pharmacologic effects on negative and positive affect. Paper presented at the annual meeting of the College on Problems of Drug Dependence, Scottsdale, AZ.
85. **Metrik, J.**, Kahler, C.W., Monti, P.M., McGeary, J.E., & Rohsenow, D.J. (December 2010). Balanced-placebo design with marijuana: Drug and expectancy effects on sexual risk decisions. Poster presented at the 49th American College of Neuropsychopharmacology (ACNP) Annual Meeting, Miami Beach, FL.
86. Bekman, N.M., Diulio, A.R., Anderson, K.G., **Metrik, J.**, Trim, R.S., Myers, M.G., Brown, S.A. (June, 2010). The role of alcohol-related cognitions in various stages of adolescent alcohol use. Poster presented at the Annual Scientific Meeting of Research Society on Alcoholism, San Antonio, TX.
87. **Metrik, J.**, Leventhal, A., Spillane, N., and Kahler, C.W. (2009, June). Marijuana Use and Cessation of Tobacco Smoking Among Heavy Alcohol Drinkers. Poster presented at the Annual Scientific Meeting of Research Society on Alcoholism, San Diego, CA.

88. **Metrik, J.**, Monti, P.M., Rohsenow, D., Kahler, C., McGeary, J., and AhnAllen, C. (2007, August). Marijuana's Acute Effects on Impulsive Decision-Making, Disinhibition, and Risk Taking. Symposium presented at the 115th annual American Psychological Association Convention, San Francisco, CA.
89. Gwaltney, C., **Metrik, J.**, Kahler, C., & Shiffman, S. (2007, February). Self-efficacy and smoking cessation: a Meta-analysis. Poster presented at the Society for Research on Nicotine and Tobacco's 13th Annual Meeting, Austin, TX.
90. **Metrik, J.**, Tevyaw, T., Tidey, J., Colby, S., Rohsenow, D., Barnett, N., Kahler, C., and Monti, P.M. (2006, June). Marijuana use and expectancies' association with risk taking among college students. Poster presented at the 68th Annual Scientific Meeting of the College on Problems of Drug Dependence, Scottsdale, AZ.
91. **Metrik, J.**, McGeary, J., & Hutchison, K. (2005, June). The Cannabinoid Receptor Gene (CNR1) polymorphism and expectancies in marijuana withdrawal among college drinkers. Poster presented at the 28th Annual Scientific Meeting of Research Society on Alcoholism, Santa Barbara, CA.
92. **Metrik, J.**, Frissell, K.C., Ellingstad, T.P., Keith, J.N., & Brown, S.A. (2003, November). The influence of risk and protective factors in selection and outcome of school-based secondary alcohol intervention. Poster presented at the 37th annual convention of the Association for Advancement of Behavioral Therapy, Boston, MA.
93. Ellingstad, T.P., Frissell, K.C., **Metrik, J.**, Chalekian, J., & Brown, S.A. (2003, November). School-wide outcomes of a novel secondary intervention to facilitate adolescent self-change from alcohol problems. Poster presented at the 37th annual convention of the Association for Advancement of Behavioral Therapy, Boston, MA.
94. Frissell, K.C., Ellingstad, T.P., Brown, S.A., **Metrik, J.**, & D'Amico, E.J. (2003, November). Engagement of youth in school-based secondary alcohol intervention: Adolescent participation and preferences. Poster presented at the 37th annual convention of the Association for Advancement of Behavioral Therapy, Boston, MA.
95. **Metrik, J.**, McCarthy, D.M., Frissell, K.C., & Brown, S.A. (2003, June). Predictive validity of adolescent alcohol cessation expectancies: A prospective analysis. Poster presented at the 26th Annual Scientific Meeting of Research Society on Alcoholism, Ft. Lauderdale, FL.
96. **Metrik, J.**, McCarthy, D.M., Frissell, K.C., MacPherson, L., & Brown, S.A. (2002, June). Alcohol cessation expectancy: a new application of behavioral theories of choice. Poster presented at the 25th Annual Scientific Meeting of Research Society on Alcoholism, San Francisco, California.
97. Frissell, K.C., McCarthy, D.M., D'Amico, E.J., **Metrik, J.** & Brown, S.A. (2002, June). The impact of consent procedures on reported levels of adolescent substance use. Poster

presented at the 25th Annual Scientific Meeting of Research Society on Alcoholism, San Francisco, California.

98. Leon-Kane, M., **Metrik, J.**, & Brown, S.A. (2001, May). Alcohol related service preferences of adolescents. Poster presented at the annual undergraduate conference at the University of California, Los Angeles, Los Angeles, California.
99. **Metrik, J.**, Roberts, L. J., Bombardier, C., & Marlatt, G. A. (1998, May). Prescription of medications with addiction potential to individuals with spinal cord injury with evidence of problematic substance use. Presented at the annual honors research festival at the University of Washington, Seattle, Washington.
100. Miller, E., Roberts, L.J., **Metrik, J.**, Neal, D., Cressler, S., & Marlatt, G.A. (1998, November). Test-retest reliability of alcohol measures: using the world wide web. Poster presented at the 32nd annual convention of the Association for Advancement of Behavioral Therapy, Washington, D.C.

INVITED ADDRESSES

1. **Metrik, J.** (2025, February). The Impact of Cannabis on Alcohol Use and Mental Health. Presented grand rounds talk at the Clinical Grand Rounds Speaker Series for the Brown University Department of Psychiatry and Behavioral Health at Lifespan.
2. **Metrik, J.** and Aston, E.R. (2022, June). The Science of Cannabis/Cannabinoids: Weeding Out Fact from Fiction. Rhode Island Psychological Association Continuing Professional Education Committee. Presented a workshop for a continuing professional education program.
3. **Metrik, J.** (2022, March). Cannabis Use and Psychiatric Comorbidity: Results from a Prospective Study of OEF/OIF/OND Veterans. Providence VA Medical Center. Presented at the colloquium as a continuing education program for physicians, psychologists, social workers, and nurses.
4. **Metrik, J.** (2020, February). Cannabis and Alcohol Co-Use. Invited speaker at the Center for Alcohol and Addiction Studies Rounds, Providence, RI.
5. **Metrik, J.** (2019, December). Cannabis and Alcohol Co-Use. Providence VA Medical Center. Presented for the colloquium as a continuing education program for physicians, psychologists, social workers, and nurses.
6. **Metrik, J.** (2019, May). Marijuana Use, Effects, and Public Health Implications. Invited speaker at the Rhode Island Department of Health, Office of Family Home Visiting, Providence, RI.

7. **Metrik, J.** (2018, October). Marijuana Use, Effects, and Public Health Implications. Invited speaker at the Rhode Island Department of Health, Primary Care Physician Advisory Board, Providence, RI.
8. **Metrik, J.** (2018, March). CBT-SUD: Marijuana Use and Treatment Implications for Veterans. Presented advanced consultation nation-wide webinar as part of the competency-based VA Cognitive Behavioral Therapy for Substance Use Disorders Training Program coordinated by Mental Health Services, VA Central Office.
9. **Metrik, J.** (2017, September). Marijuana Use, Effects, and Public Health Implications. Invited speaker at the Rhode Island Department of Health, Public Health Academic Working Group, Providence, RI.
10. **Metrik, J.** (2017, January). Marijuana Use, Effects, and Treatment Implications for Veterans. Invited speaker at the Center for Alcohol and Addiction Studies Rounds, Providence, RI.
11. **Metrik, J.** (2016, October). CBT-SUD: Marijuana Use, Effects, and Treatment Implications for Veterans. Presented advanced consultation nation-wide webinar as part of the competency-based VA Cognitive Behavioral Therapy for Substance Use Disorders Training Program coordinated by Mental Health Services, VA Central Office.
12. **Metrik, J.** (2016, March). Cannabis to Cope and Coping with Cannabis. Providence VA Medical Center. Presented for the colloquium as a continuing education program for physicians, psychologists, social workers, and nurses.
13. **Metrik, J.** (2015, September). Marijuana use among returning Veterans. Invited speaker at the Providence VAMC Mental Health Summit.
14. **Metrik, J.** (2014, May). Marijuana's acute effects and consequences. Invited speaker at the Brown University Norman Prince Neurosciences Institute Brain Power Lecture Series: Addiction: The Substance behind the Substance.
15. **Metrik, J.** (2013, September). The Role of Expectancy and Pharmacology in Marijuana's Acute Effects. Invited speaker at the Center for Alcohol and Addiction Studies 30th Anniversary Colloquium, Providence, RI.
16. **Metrik, J.** (2012, April). Marijuana Use, Effects, and Treatment Implications for Veterans. Invited speaker for the National VA Medical Center Research Week "VA Research: Caring for Veterans through Discovery & Collaboration", Providence, RI.
17. **Metrik, J.** (2011, April). Balanced-Placebo Design with Marijuana: Drug and Expectancy Effects on Affect, Impulsivity, and Sexual Risk Decisions. Invited presenter for a professional development webinar for the Washington's College Coalition on Substance Abuse Prevention (CCSAP).

18. **Metrik, J.** (2010, May). Marijuana Use: Ways to Intervene. Invited presentation at the Boston University School of Public Health's Brief Negotiated Interview and Active Referral to Treatment (BNI-ART) Institute Conference. Worcester, MA.
19. **Metrik, J.** (2010, April). Variability in Marijuana's Acute Effects: The Role of Expectancies, Pharmacology and Genetics. Invited presenter at the Sixth National Clinical Conference on Cannabis Therapeutics. Warwick, RI.
20. **Metrik, J.** (2010, March). Marijuana's Acute Effects: The Role of Expectancies, Pharmacology and Genetics. Invited lecture at the Department of Psychology, University of Rhode Island. Kingston, RI.
21. **Metrik, J.** (2010, January). Marijuana Use and Treatment in College Students. Invited presentation to the Brown University Department of Psychological Services, Annual Retreat.
22. **Metrik, J.** (2009, November). Risks and Benefits of Marijuana: Review of Mental and Physical Health Issues. Rhode Island Medical Women's Association. Presented a continuing medical education program at the Annual Elise Colletta Educational Lecture. Providence, RI.
23. **Metrik, J.** (2009, October). Marijuana Use Among College Students: What's The Harm? Presented to the Brown University Campus Life Advisory Board's Subcommittee on Alcohol and Other Drugs at the monthly meeting. Providence, RI.
24. **Metrik, J.** (2009, October). Risks and Benefits of Marijuana: Review of Mental and Physical Health Issues, The St. Luke Hospital, New Bedford, MA. Presented for the colloquium for the St. Luke's Hospital Physician CME Program.
25. **Metrik, J.** (2009, February). Therapeutic Benefits and Risks of Marijuana. Providence VA Medical Center. Presented for the colloquium as a continuing education program for physicians, psychologists, social workers, and nurses.
26. **Metrik, J.** (2009, February). Risks and Benefits of Marijuana. Rhode Island Psychiatric Society. Presented a continuing medical education program at the monthly membership meeting.
27. **Metrik, J.** (2008, June). Prevalence and Effects of Marijuana Use. School of Public Health, Center for Alcohol and Addiction Studies, Brown University, end of the year presentation.
28. **Metrik, J.** (2006, November). Marijuana's Effects on Impulsivity and Risk Taking. Invited lecture at the Department of Psychiatry, University of Chicago, Chicago, IL.

GRANTS

Summary Table of Grant Funding		
	<u>Current Grants</u>	<u>Completed Grants</u>
<u>PI or MPI (Federal funding)</u>	R01 DA055654 (Metrik) R01 AA029711 (Metrik) R01 DA053087 (Metrik, Jackson) I01 HX002699 (Metrik, Gaudiano)	R01 AA024091 (Metrik) R21 AA025715 (Miller, Metrik, McGeary) R01 DA033425 (Metrik, Borsari) R01 DA021403 (Metrik) R03 DA027484 (Metrik)
<u>Site PI (Federal funding)</u>	I01 CX002378 (D'Souza, McGeary; Site PI: Metrik)	DTR6913G621C100006 2R44DA041225 (Metrik) DTR6913G618C100019 (Metrik)
<u>Co-I (Federal funding)</u>	R01DA053368 (Aston) R01CA289409 (Aston, Cassidy) R01DA058369 (Battle, Abrantes, Stein) R01 AA030990 (Gunn) R01 DA055600 (Padovano) R01 DA054116 (Brick, Nugent)	R34 DA055317 (Battle) R21 DA055023 (Wightman) R01 DA044504 (Stroud) R21 AA023039 (Subbaraman) R01 AA016978 (Kahler)
<u>PI or MPI (Internal funding)</u>		Rapid Response Award (CAAS CADRE) Research Excellence Award, CAAS (2 awards)
<u>Primary Mentor</u>	IK2CX002645 (Berey)	K08 AA027551 (Gunn) K01 DA039311 (Aston) P20GM130414 (Aston) P20GM130414 (Gunn, Micalizzi)
<u>Co-Mentor</u>		K23 DA050911 (Thomas) F31DA05114 K08 AA024794 Advance-CTR Award (Brown)
<u>Consultant</u>	F31DA063325 (Miller)	R56DA051400 F31 AA030167 R21 DA045092 R43 DA041225 F31 AA027958 DTRT5717C10201

CURRENT GRANTS: EXTERNAL

PI/MPI/Site PI Grants:

1. “Individual, contextual, and geospatial influences on decisions to drive under the influence of cannabis” (**Metrik**)
Role: **Principal Investigator**
Agency: National Institute on Drug Abuse
Type: R01 DA055654; Period: 8/1/23- 06/30/2028
2. “Cannabis’ Impact on Alcohol Consumption: Integrating Laboratory and Ecological Momentary Assessment Methods” (**Metrik**)
Agency: National Institute on Alcohol Abuse and Alcoholism
Role: **Principal Investigator**
Type: R01 AA029711; Period: 04/01/2022 – 3/31/2027
Total costs: \$3,981,769
Aim: This project will provide the most comprehensive tests of the impact of cannabis on alcohol outcomes using a multi-method design: (1) controlled laboratory administration of THC versus CBD smoked alone versus simultaneously with alcohol and (2) ecological momentary assessment (EMA) of event-level contextual factors that can help elucidate the associations between CU and alcohol-related outcomes in daily life contexts.
3. “A Multi-Method Investigation of Cannabis Messaging: Characterizing Source, Content, and Associations with Cannabis Consumption” (**Metrik, Jackson**)
Agency: National Institute on Drug Abuse
Role: **Multiple Principal Investigator**
Type: R01 DA053087; Period: 07/15/2022 - 4/30/2027
Total costs: \$3,156,943
Aim: This mixed-method design study will gather critical information about message sources, cannabis-promoting content, and risk warnings being disseminated to cannabis users as well as the messages being received, their effects on cannabis use motives, and subsequent cannabis use.
4. “Post-Hospital Intervention for Veterans with Comorbid Bipolar and Substance Use Disorders” (**Metrik, Gaudiano**)
Role: **Co-Principal Investigator**
Agency: VA HSR&D
Type: VA Merit Award 1 I01 HX002699-01; Period: 03/01/2020 - 09/30/2025
Total direct costs: \$1,211,720
Aim: This Effectiveness-Implementation Trial will evaluate the effectiveness of an innovative psychosocial intervention designed to improve treatment adherence and reduce suicidality, bipolar symptoms, and substance abuse among high-risk patients.
5. “Proof of Concept Trial of Cannabis Derivatives in Neuropathic Pain” (D’Souza, McGeary)
Role: **Site PI/Executive Planning Committee member**
Agency: VA CSR&D

Type: I01 CX002378-01; Period: 1/25/2021 - 1/24/2026

Total direct costs: \$7,000,000

Aim: Multi-site phase II proof-of-concept RCT testing efficacy of cannabinoids (THC and CBD) in VHA patients with chronic diabetic peripheral neuropathy.

Co-I Grants:

1. "Characterizing behavioral economic phenotypes of dual marijuana and tobacco use in young Adults" (Aston, Cassidy)
Role: **Co-Investigator**
Agency: National Cancer Institute
Type: R01CA289409
2. "Using Behavioral Economic Domains to Characterize Marijuana Use Trajectories Among Young Adults: A Prospective Mixed-Methods Investigation" (Aston)
Role: **Co-Investigator**
Agency: National Institute on Drug Abuse
Type: R01DA053368
3. "Effect of Cannabis Use on Alcohol Craving and Consumption among those in Alcohol Treatment" (Gunn)
Role: **Co-Investigator**
Agency: National Institute on Alcohol Abuse and Alcoholism
Type: R01 AA030990; Period: 9/15/23- 06/30/2028
4. "A Longitudinal EMA Study Examining the Role of Maternal Mood and Physical Symptoms on Women's Cannabis Use Across the Perinatal Period" (Battle, Abrantes, Stein)
Role: **Co-Investigator**
Agency: National Institute on Drug Abuse
Type: R01DA058369; Period: 9/30/23- 06/30/2028
5. Sensitivity to cannabis effects and cue reactivity as markers of a developing disorder in adolescents (Treloar Padovano)
Role: **Co-Investigator**
Agency: National Institute on Drug Abuse
Type: R01 DA055600-01; Period: 6/1/23-2/28/28
6. "Development of a lifestyle physical activity intervention to address perinatal cannabis use" (Battle/Abrantes)
Role: **Co-Investigator**
Agency: National Institute on Drug Abuse
Type: R34 DA055317-01; Period: 04/01/2022-03/31/2025

Aim: The goal of the proposed research is to test the efficacy of a physical activity intervention targeting pregnant women who use cannabis.

7. “Cannabis use following trauma exposure: An observational study of the impact of acute stress and fear response on cannabis outcomes” (Brick, Nugent)
Role: **Co-Investigator**
Agency: National Institute on Drug Abuse
Type: R01 DA054116; Period: 9/1/222 - 8/31/27
Aim: The goal of the proposed research is to examine the roles of arousal, fear response, and acute stress symptoms in individuals exposed to trauma on cannabis use behavior.

CURRENT MENTORED GRANTS

1. “Applying Mixed Methods to Identify Links between Cannabis Use and Sleep Behaviors with Ramifications for Veterans Clinical Health Outcomes” (Berey)

Role: Co-Primary Mentor
Agency: VA Clinical Science Research & Development (CSR&D)
Type: IK2CX002645 (VA CDA-2)
Aim: This CSR&D Career Development Award-2 application proposes to implement an innovative approach using different technologies to assess Veterans’ cannabis use and sleep behaviors over time, and in the natural environment. Results from this proposal and subsequent grants extending those findings will address a crucial knowledge gap concerning bi-directional links between cannabis, subjective sleep quality and objective sleep behaviors (e.g., duration).
2. “Contextual factors influencing cannabis use and behavioral economic demand in the natural environment” (Miller)
Role: Consultant
Agency: National Institute on Alcohol Abuse and Alcoholism
Type: F31DA063325; Period: 6/2025-5/2030

COMPLETED MENTORED GRANTS

1. “Cognitive flexibility and reward motivation in adolescent cannabis use: An investigation of neurobehavioral mechanisms and intrinsic resting state connectivity” (Thomas)
Role: Co-Mentor
Agency: National Institute on Drug Abuse
Type: K23 DA050911-01; Period: 3/2021-2/2026
2. “Ambulatory Assessment of Simultaneous Alcohol and Marijuana Use: Impact On Alcohol Use And Consequences” (Gunn)
Role: Primary Mentor
Agency: National Institute on Alcohol Abuse and Alcoholism
Type: K08 AA027551; Period: 9/20/2019-8/31/2024
Aim: Through the research and training in this K08 proposal, the PI (Gunn) will acquire the necessary skills to become an independent clinical science researcher in the comprehensive

study of alcohol co-use behaviors. The study employs novel behavioral assessments of disinhibition and motor impairment and biological measures of alcohol use (transdermal alcohol concentration: TAC) to study the impact of simultaneous alcohol and marijuana use on alcohol consumption at the event level and consequences at the daily level.

3. Multimethod Examination of the Effects of Perinatal Cannabis Use on Postpartum Depression and the Mother Infant Dyad (Gunn, Micalizzi)
 Role: Mentor
 Agency: National Institute of General Medical Sciences
 Type: P20GM130414 Phase 2, Pilot Project; Period: 2023-2025
4. “Impact of Acute Cannabis Administration on Pain Symptomology and Inflammatory Markers among Patients with Rheumatoid Arthritis” (Aston)
 Role: Primary Mentor
 Agency: National Institute of General Medical Sciences
 Type: P20GM130414; Period: 1/8/2019-7/31/2023
 Aim: This research project is supported by a COBRE Center for Addiction and Disease Risk Exacerbation (CADRE) that investigates mechanisms whereby substance use impacts disease, using a combination of behavioral and physiological laboratory-based approaches across several substances of abuse. Dr. Aston’s project examines effects of cannabis on RA pain, affect, and inflammation, and investigates whether effects of cannabis on pain and affect are mediated via effects of cannabis on inflammatory biomarkers.
3. “Behavioral Economic Analysis of Demand for Marijuana” (Aston)
 Role: Primary Mentor
 Agency: National Institute on Drug Abuse
 Type: K01 DA039311; Period: 05/01/2015-4/30/2021 (NCE)
 Aim: Through the research and training in this K01 proposal, the PI (Aston) will acquire the necessary skills to become an independent researcher applying a behavioral economic framework to the examination of the relative value, behavioral, and pharmacologic effects of marijuana. The study will develop and validate a refined measure for assessment of demand for marijuana to be used in future investigations.
4. “Between- and Within-Person Effects of Alcohol and Cannabis Co-Use on Subjective Alcohol Response and Problem Drinking” (Waddell)
 Role: Consultant
 Agency: National Institute on Alcohol Abuse and Alcoholism
 Type: F31 AA030167-01; Period: 3/9/2022-3/8/2024
5. “Temporal association between simultaneous alcohol and marijuana use and high-risk sexual behaviors” (Kolp)
 Role: Co-mentor
 Agency: National Institute on Drug Abuse
 Type: F31DA05114; Period: 2021-2024

6. “Cognitive flexibility and reward motivation in adolescent cannabis use: an investigation of neurobehavioral mechanisms and intrinsic resting state connectivity” (Thomas)
 Role: Co-Mentor
 Agency: Brown University
 Type: Advance-CTR Award; Period: 2019-2021 (NCE).
7. “Dual-process models of alcohol use in late adolescence” (Lopez-Vergara)
 Role: Co-Mentor
 Agency: National Institute on Alcohol Abuse and Alcoholism
 Type: K08 AA024794; Period: 05/10/2017-4/30/2022
 Aim: Through the research and training in this K08 proposal, the PI (Lopez-Vergara) will acquire the necessary skills to become an independent researcher in the area of the etiology of adolescent substance use and psychopathology. The study examines transdiagnostic motivational and executive pathways into substance use disorders among late adolescents and emerging adults.
8. “Using laboratory alcohol administration and ecological momentary assessment to identify risk factors for simultaneous alcohol and marijuana use” (Wyckoff)
 Role: Consultant
 Agency: National Institute on Alcohol Abuse and Alcoholism
 Type: F31 AA027958; Period: 9/2019-9/2021

COMPLETED EXTERNAL GRANTS

1. “Detection of THC Use in Drivers” (Dweik, Giner, Inc)
 Role: **Subaward Principal Investigator**
 Agency: Department of Transportation
 Type: DTR6913G621C100006 SBIR Phase 2B; Period: 6/1/21-5/31/23
 Aim: The goal of this research is the development of a portable DrugTest device enabling real-time measurement of THC in saliva at the point-of-collection appropriate for use in a road setting.
2. “Marijuana Breath Analyzer” (Dweik, Giner, Inc)
 Role: **Subaward Principal Investigator**
 Agency: National Institute on Drug Abuse
 Type: 2R44DA041225; Period: 02/01/2019 – 01/31/2023
 Aim: The goal of this research is the development of a portable DrugTest device enabling real-time measurement of THC in saliva at the point-of-collection appropriate for use in a road setting.
3. “Marijuana’s Impact on Alcohol Motivation and Consumption” (**Metrik**)
 Role: **Principal Investigator**
 Agency: National Institute on Alcohol Abuse and Alcoholism
 Type: R01AA024091; Period: 06/01/2016-05/31/2022 (NCE)
 Total direct costs: \$ 2,068,298; Total indirect costs: \$ 1,292,686
 Aim: This laboratory study examines dose-dependent effects of marijuana administration on alcohol craving, on behavioral economic measure of alcohol demand after exposure to

alcohol cues, and on subsequent drinking in an alcohol choice task. The strategy of this proposal is to use the most comprehensive controlled test characterizing marijuana's putative effects on alcohol.

4. "The Impact of CBT for Insomnia on Alcohol Treatment Outcomes among Veterans" (Miller, **Metrik**, McGeary)
 Role: **Multiple Principal Investigator**
 Agency: National Institute on Alcohol Abuse and Alcoholism
 Type: R21 AA025715-01A1); Period: 08/01/2018- 07/31/2021
 Total direct costs: \$294,838; Total indirect costs: \$148,153
 Aim: The study tests the feasibility and acceptability of an evidence-based insomnia treatment for Veterans engaged in outpatient alcohol treatment.

5. "Marijuana Use, Problems, and Cannabis Use Disorders in OIF/OEF/OND veterans" (**Metrik**, Borsari)
 Role: **Multiple Principal Investigator**
 Agency: National Institute on Drug Abuse
 Type: R01 DA033425; Period: 09/15/2012 - 07/31/2017
 Total direct costs: \$ 1,010,522; Total indirect costs: \$ 255,557
 Aim: Conduct the first comprehensive prospective investigation of the trajectories of marijuana use, related problems, cannabis use disorders and concomitant affective disorders among Operation Enduring Freedom (OEF), Operation Iraqi Freedom (OIF), and Operation New Dawn (OND) veterans recruited from the Veterans Administration Medical Center post-deployment.

6. "Marijuana's Acute Effects on Risk Taking, Sexual/HIV Risk, and Impulsivity" (**Metrik**)
 Role: **Principal Investigator**
 Agency: National Institute on Drug Abuse
 Type: R01 DA021403; Period: 06/01/2007 - 03/31/2012
 Total direct costs: \$600,000; Total indirect costs: \$353,750

7. "Genetic Variation and Marijuana's Pharmacologic and Cue-Elicited Effects" (**Metrik**, Knopik)
 Role: **Multiple Principal Investigator**
 Agency: National Institute on Drug Abuse
 Type: R03 DA027484; Period: 09/15/2009 - 08/31/2013
 Total direct costs: \$300,000; Total indirect costs: \$185,375

8. "Detection of THC Use in Drivers" (Dweik, Giner, Inc.)
 Role: **Subaward Principal Investigator**
 Agency: Department of Transportation/Giner, Inc.
 Type: SBIR Phase 2a (DTR 6913G618C100019); 09/15/2018 - 8/31/2020
 Aim: The goal of this research is the development of a portable DrugTest device enabling real-time measurement of THC in saliva at the point-of-collection appropriate for use in a road setting.

9. “Prenatal marijuana: Impact on infant neurobehavior, stress, & epigenetic mechanisms” (Stroud)
 Role: **Co-Investigator**
 Agency: National Institute on Drug Abuse
 Type: R01 DA044504-01; Period: 09/01/2017-06/30/2022
 Aim: This study investigates the effects of maternal prenatal cannabis use on infant neurobehavior and withdrawal, infant stress response, and epigenetic regulation of placenta endocannabinoid and glucocorticoid mediators.
 Total direct costs: \$3,641,370

10. “Cannabis Hyperemesis Syndrome: An Increasing Challenge in Emergency Care” (Wightman)
 Role: **Co-Investigator**
 Agency: National Institute on Drug Abuse
 Type: R21 DA055023; Period: 7/1/21 – 6/30/23; Total direct costs: \$255,521
 Aim: The study examines the etiology, development, course and outcomes of cannabis hyperemesis syndrome (CHS) in cannabis users admitted to emergency department with acute CHS symptoms.

11. “A multimethod examination of individual and environmental contributors to racial disparities in marijuana use” (Pedersen)
 Role: **Consultant**
 Agency: National Institute on Drug Abuse
 Type: R56DA051400; Period: 9/30/21 – 9/29/22; Total direct costs: \$408,015
 Aim: The project tests a cascading model that examines stress and discrimination exposure, emotional reactivity, and marijuana cognitions, inside the laboratory and in the natural environment, as contributors to health disparities in marijuana use and problems.

12. “Cannabis Identity as Cognitive and Developmental Risk Factors for Adolescent Cannabis Misuse” (Ramirez)
 Role: Consultant
 Agency: National Institute on Drug Abuse
 Type: R21 DA045092-01A1; Period: 08/15/2018 - 07/31/2020
 Total Costs: \$341,954 (Direct Costs: \$275,000)
 Aim: The proposed research aims to qualitatively assess identification with cannabis and develop novel measures of cannabis identity to evaluate as cognitive and developmental risk factors for adolescent cannabis misuse.

13. “How Cannabis Use Affects Alcohol Treatment Outcomes” (Subbaraman)
 Role: Co-Investigator
 Agency: National Institute on Alcohol Abuse and Alcoholism
 Type: R21 AA023039; Period: 09/05/2015 - 2/28/2018
 Total direct costs: \$ 244,136; Total indirect costs: \$ 161,885
 Aim: The primary aims of this study are to examine the effects of changes in cannabis use during alcohol use disorder (AUD) treatment on post-treatment alcohol use and related

problems using two largest AUD treatment studies undertaken in the United States: the COMBINE Study and Project MATCH.

14. “Marijuana Breath Analyzer” (Dweik)

Role: Consultant

Agency: National Institute on Drug Abuse

Type: SBIR Phase I R43 DA041225-01); Period: 09/15/2016 - 3/31/2017

Aim: This project proposes to develop novel technology that is a promising method for testing recent exposure to smoked marijuana in breath.

15. “Detection of THC Use in Drivers” (Dweik)

Role: Consultant

Agency: Department of Transportation

Type: SBIR Phase I (DTRT5717C10201); Period: 5/22/17 - 12/31/17

Aim: This project proposes to develop novel technology that is a promising method for testing recent exposure to smoked marijuana in saliva.

16. "Mechanisms Linking Alcohol Use and Smoking Relapse Risk" (Kahler)

Role: Co-Investigator, Project Director

Agency: National Institute on Alcohol Abuse and Alcoholism

Type: R01 AA016978; Period: 4/01/08-

9/30/13

Total direct costs: \$1,221,901; Total indirect costs: \$720,921

COMPLETED INTERNAL GRANTS

1. “The role of tetrahydrocannabinol in the acute alcohol-induced Inflammation” (**Metrik**, Haass-Koffler)

Role: Multiple PI

Agency: Brown University, Center for Addiction and Disease Risk Exacerbation's (CADRE)

Type: Rapid Response Award; 5/21/2021-5/20/2022

Aim: The goal of this project is to determine the impact of delta-9-tetrahydrocannabinol (THC) on the inflammatory response induced by acute alcohol consumption.

Total direct costs: \$7,500

2. “Geographically Explicit Momentary Assessment to Detect Driving Under the Influence of Cannabis” (**Metrik**, Gunn, Aston)

Role: Multiple PI

Agency: Brown University, Center for Alcohol and Addiction Studies

Type: Research Excellence Award; Period: 12/11/2020-12/10/2021

Aim: Collect geographically explicit EMA pilot data on driving under the influence of cannabis.

Total direct costs: \$12,024

3. “Marijuana’s Expectancy Effects on Risk Taking and Impulsivity” (Metrik)
 Role: Principal Investigator
 Agency: Brown University
 Type: Center for Alcohol and Addiction Studies Research Excellence Award
 Period: 5/23/2005-5/31/2007
 Total direct costs: \$7,674

4. “Creating a Providence-based Working Group in Precision Medicine to Identify the Genetic Determinants of Marijuana Sensitivity” (William Fairbrother)
 Role: Co-Investigator
 Agency: Brown University, Office of the Vice President for Research (OVRP)
 Type: Seed award.
 Period: 2014-2015
 Total direct costs: \$80,000
 Aim: This pilot technology development project generates preliminary data applying novel genomic technologies for the simultaneous sequencing and screening of genomic variants in NIDA funded study participants for a multi-investigator grant submission to NIH.

UNIVERSITY TEACHING ROLES

POSTDOCTORAL:

Postdoctoral Research Mentor T32, Center for Alcohol and Addiction Studies, Brown University, 2008-present

National Institute on Drug Abuse Research Postdoctoral Fellowship in Substance Abuse Intervention Outcome Research Training, internal training faculty grant reviewer

Primary Mentor and Co-Mentor:

Postdoctoral Fellow Primary Mentor, 2013-2015 (**Elizabeth Aston, PhD**)
 Postdoctoral Fellow Primary Mentor, 2015-2016 (**Anne Fernandez, PhD**)
 Postdoctoral Fellow Primary Mentor, 2017-2019 (**Rachel Gunn, PhD**)
 Postdoctoral Fellow Co-Mentor, 2018-2020 (**Lidia Meshesha, PhD**)
 Postdoctoral Fellow Co-Mentor, 2018-2021 (**Natasha Sokol, PhD**)
 Postdoctoral Fellow Primary Mentor, 2020-2021 (**Nathan Kearns, PhD**)
 Postdoctoral Fellow Co-Mentor, 2020-2023 (**Benjamin Berey, PhD**)
 Postdoctoral Fellow Primary Mentor, 2021-2022 (**Kayleigh McCarty, PhD**)
 Postdoctoral Fellow Co-Mentor, 2022-2024 (**Holly Boyle, PhD**)
 Postdoctoral Fellow Primary Mentor, 2024-2025 (**Nicholas Bush, PhD**)
 Postdoctoral Fellow Co-Mentor, 2024-current (**Lindy Howe, PhD**)
 Postdoctoral Fellow Primary Co-Mentor, 2026-current (**Kirstyn Smith-Lecavalier, PhD**)

Postdoctoral Psychology Clinical and Research Supervisor, Providence VAMC—2014-present

Supervise clinical psychology fellows on postdoctoral clinical hours and direct their research placement

Anne Day, PhD (2014)
Anne Fernandez, PhD (2015)
Shayna Bassett, PhD (2015-2016)
Linda Skalski, PhD (2016-2017)
Kate Stewart, PhD (2017-2018)
Richard Haddock, PsyD (2018-2019)
Casey Catlin, PhD (2019-2020)
Malini Varma, PhD (2020-2021)
Corinne Bart, PhD (2021-2022)
Lavinia Pinto, PsyD (2023-2024)
Courtney Vaughan, PhD (2025-2026)

PREDOCTORAL:

Psychology Internship Research Mentor (Adult Track)

Brown University Clinical Psychology Training Consortium

Supervise psychology resident's research placement (one year)

Samantha Farris-2015-2016
Rachel Gunn –2016-2017
Angela Stevens – 2018-2019
Kayleigh McCarty -2020-2021
Lindy Howe – 2023-2024
Olivia Bolts – 2024-2025
Kate Shirley– 2024-2025
Kirstyn Smith-Lecavalier -2025-2026
Cianna Piercey –2026-current

Psychology Internship Academic Advisor (Adult Track) —2013-present

Brown University Clinical Psychology Training Consortium

Serve as academic advisor for residents during internship year (one year)

Psychology Internship Supervisor (Adult Track), Providence VAMC—2013-2022

CARS (SATP) Clinic (Assessment, Individual & Group Therapy)

Brown University Clinical Psychology Training Consortium

Supervise 3 psychology residents per year (3 four-month rotations)

Psychology Internship Supervisor (Adult Track), Providence VAMC—2014-2015

Long-term psychotherapy

Brown University Clinical Psychology Training Consortium

Supervise 1 psychology resident per internship year

Predoctoral Externship (Practicum) Clinical Supervisor, Providence VAMC, 2015-2022

Supervise clinical psychology graduate student (URI) on predoctoral clinical placement

CARS Clinic (Assessment, Individual & Group Therapy)

Lucy Gu, MS (2015-2016)

Janan Wyatt, MA (2016-2017)
Rebecca Nelson, MA (2018-2019)
Madeline Benz, MS (2019-2020)
Tessa Nalven, MA (2020-2022)

Dissertation Committee Member
Behavioral and Social Health Sciences, Brown University
Garrett Stang, 2025-current

Dissertation Committee Member
Department of Neuroscience, Brown University
Dallece Curley, 2021-2023

Dissertation Committee Member
Department of Psychology, Clark University
Clinical Psychology Doctorate Program
Madeline Benz, 2020-2022

MASTER'S:
Master of Public Health (MPH) Thesis Advisor
Epidemiology Concentration
School of Public Health, Brown University
Sharla Kirkpatrick, 2025-2026

Master of Science (ScM) Thesis Reader
Behavioral and Social Sciences Intervention ScM Program
School of Public Health, Brown University
Alison Green, 2019-2020

Master of Science (ScM) Thesis Advisor
Behavioral and Social Sciences Intervention ScM Program
School of Public Health, Brown University
Madeline Benz, 2014-2015

Master of Public Health (MPH) Applied Practice Experience (APE) Mentor
School of Public Health, Brown University
Katie Yetter, 2023
Rehan Aslam, 2023
Zhenhuan (Jack) Li, 2024

Master of Public Health (MPH) Health Equity Scholar Program Mentor
School of Public Health, Brown University
Katie Yetter, 2022-2024
Sharla Kirkpatrick, 2024-present

UNDERGRADUATE:

Undergraduate Teaching and Research Awards (UTRA) program Mentor, Brown University:

Olumide E Adesioye, 2023
Wanjing Zhou, 2023
Irene Kim, 2024
Serena West, 2024
Yordanos Divelbess, 2024
Diego Elizalde, 2025
Mistchnache Prinston, 2025
Dane Elliott, 2025
Fopefoluwa Akinyede, 2025
Ryan Sweeney, 2026
Ben Yoo, 2026
Naa Adua Annan, 2026
Olivia Young, 2026
Leela Daniel, 2026
Taeyeon Kim, 2026
Eloise Miller, 2026

Directed Research/Independent Study, BIOL 1950, Brown University, Department of Biology, 2024: Ziad Baki

Directed Research/Independent Study, BIOL 1950, Brown University, Department of Biology, 2024: Sydney Butler

Lecturer, PHP 2371. Psychosocial and Pharmacologic Treatment of Substance Use Disorders. Treatment of Cannabis Use Disorder.

Lecturer, PHP 2370. Etiology of Substance Use Disorders. Assessment in Research.

Instructor, Postdoctoral Fellowship Program Core Seminar Series (Lectures: Assessment I: Issues in Research Measurement; Grant-Writing Seminar: Project Summary and Biosketches), Center for Alcohol and Addiction Studies, Brown University, **2008-present.**

Independent Study Thesis Mentor, BIOL 1960, Brown University, Department of Biology, 2018: Adam Friedberg.

Independent Study Thesis Mentor, Brown University, Department of Psychology, 2010-2011: Evangeline Kurtz-Nelson.

Senior Honors Thesis Mentor, Brown University, Department of Psychology, 2009-2010: Adrienne Umali.

Lecturer, The Brown University Ethics And Responsible Conduct Of Research (BEARCORE) program, 2017-2019.

Guest lecturer, Addiction Medicine course, Alpert Medical School, Brown University, 2018

Instructor, Precollege Summer Studies at Brown University: PY907:
Introduction to Clinical Psychology (2005-2008)

Guest lecturer, Addiction Studies-Group Independent Study Projects (GISP), Brown University,
Fall 2011 and Fall 2012. Prevalence of Marijuana, Geographic Trends, and Acute Effects.

Guest lecturer, Tobacco, Smoking and the Evil Empire, Department of Community Health,
Brown University, Spring 2007. Prevalence of Marijuana Use and its Effects on Behavior.
Professor: Peter M. Monti, Ph.D.