JENNIFER F. BUCKMAN

Curriculum Vitae November 2022

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Present Address	Rutgers University – New Brunswick Department of Kinesiology and Health Smithers Hall, 607 Allison Road, Piscataway, NJ 08854	
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Education		
2006	Rutgers University, Graduate School of Management	MBA
1998	Oregon Health & Science University, Behavioral Neuroscience	PhD
1996	Oregon Health & Science University, Behavioral Neuroscience	MS
1992	Rutgers University, Psychology	ВА
Positions		
2021 – present	Associate Professor, with tenure Rutgers University – New Brunswick, Department of Kinesiology and He	ealth
2017 – 2021	Associate Professor, <i>tenure track</i> Rutgers University – New Brunswick, Department of Kinesiology and He	ealth
2014 – 2017	Associate Research Professor Rutgers University – New Brunswick, Center for Alcohol Studies	
2005 – 2014	Assistant Research Professor Rutgers University – New Brunswick, Center for Alcohol Studies	
2003 – 2005	Research Associate Rutgers University – New Brunswick, Center for Alcohol Studies	

Postdoctoral Fellow

University of Pittsburgh Medical School, Department of Pharmacology

1998 – 2001

Grants & Contracts: Principal Investigator

Pending

R01AA027518 (PI: Bates/Buckman) Principal Investigator (multi) PENDING RE-SUBMISSION
National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) ~\$380,000/yr (direct)

Accelerating mechanism-focused alcohol research: Integrative analysis of physiological, subjective, and neural system data from samples that varied in drinking behaviors: This proposal seeks to use integrative data analysis of existing experimental and clinical research data to examine self-regulation and behavioral flexibility towards alcohol.

Active

R01AA028286 (PI: Buckman/Spaeth) Principal Investigator (multi) 09/01/2021 - 08/31/2026 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) $^{\circ}$ \$260,000/yr (direct)

Characterizing mechanisms underlying the reciprocal relationship between sleep deprivation and binge drinking within the context of college life: This proposal seeks to understand how sleep problems and alcohol misuse during college can be used to identify risk for, and prevent the development of, alcohol use disorders.

R01AA027017(PI: Buckman) Principal Investigator 10/01/2018 – 09/30/2023 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) ~\$340,000/yr (direct)

Changes in Cardiovascular Control Mechanisms Related to Binge Drinking during College: This grant seeks to uncover the cumulative effects of binge drinking on integrated cardiovascular processes over two years and identify quantitative cardiovascular biomarkers of early drinking-related injury prior to the onset of frank illness.

Completed, Research Grant

K02AA025123 (PI: Buckman) Principal Investigator 07/01/2017 – 06/30/2022 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) ~\$140,000/yr (direct)

Deconstructing the Temporal and Multi-Level Influences of the Baroreflex Mechanism on Alcohol Use Behaviors: This career award provides salary support (>75%) plus research funds to examine the baroreflex mechanism's temporal nature (in-the-moment versus across time) and multi-level influence on physiology, cognition, and behavior.

R01AA023667 (PI: Bates/Buckman) Principal Investigator (multi) 02/15/2015 - 12/31/2020 (NCE) National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) $^{\circ}$ \$395,000/yr (direct)

Project IMPACT: In-the-Moment Protection from Automatic Capture by Triggers: This randomized clinical trial assesses an "app"-based breathing intervention (added to behavioral treatment as usual) to reduce risk for relapse.

CBIR14IRG020 (PI: Buckman) Principal Investigator 06/01/2014 – 05/31/2017 State of New Jersey, Commission on Brain Injury Research \$150,000/yr (direct)

Validating HRV as an Objective Clinical Measure of TBI Symptom Severity and Recovery to Inform Physicians' Return-To-Play Decisions: This project compares cardiovascular signals before and after a sports-related concussion to assess neurocardiac dynamics as an objective indicator in injury severity or recovery course.

CBIR13IRG028 (PI: Buckman) Principal Investigator 06/01/2013 – 05/31/2017 (NCE) State of New Jersey, Commission on Brain Injury Research \$150,000/yr (direct)

Developing a Comprehensive Clinical Profile of Traumatic Brain Injury (TBI) in Concussed Athletes using Advanced Statistical Approaches: This project applies advanced statistical strategies to pre- and post-concussion data to build predictive models of recovery following a sports-related TBI.

K01AA017473 (PI: Buckman)Principal Investigator07/01/2009 – 06/30/2015National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)\$90,000 (direct)

Exploring Genetic Influences on Alcohol Use using Novel Statistical Methods: This project explored novel statistical approaches for identifying the interrelationship of polymorphisms in neurobiological genes and phenotypes that increase, or protect against, the escalation of alcohol use.

F32NS011147 (PI: Buckman) Principal Investigator 11/16/2000 – 08/31/2001 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) \$30,000 (direct)

Spontaneous changes in mitochondrial membrane potential: This project characterized the properties and functions of the endogenous oscillations in membrane potential that are observed in cultured neurons and astrocytes.

F31AA005507 (PI: Buckman) Principal Investigator 01/01/1998 – 11/15/1998 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) \$18,000 (direct)

Glutamate uptake in selectively bred mice: This project focused on examining the role of glutamate transporters in alcohol withdrawal seizures in selectively bred mice.

Completed, Contracts, Non-Research Grants, and Subcontracts

Program Evaluation Contract Principal Investigator 07/18/2016 – 06/30/2018

Ambrosia Treatment Centers \$42,000/year (direct)

This program evaluation contract seeks to create a data collection protocol, a method to electronically store data, and a means to prospectively track rates of irregular discharge and sustained recovery with the ultimate goal of providing Ambrosia with an overview of the program's strengths and limitations.

CDC-RFA-DD14-1402 Subcontract PI 02/11/2016 - 09/29/2018 University of Missouri ($subcontract\ from\ CDC$) \$48,000/year (direct)

Mental Health and Rehabilitation FASD Practice and Implementation Center (MRPIC): The Rutgers subcontract seeks to disseminate FASD knowledge and resources to the social work discipline.

Memorandum of Agreement Program Director 02/11/2016 – 06/30/2017 State of New Jersey, Division of Mental Health and Addiction Services \$279,100/yr (direct) (subcontract from SAMHSA)

Screening, Brief Intervention, and Referral to Treatment: NJSBIRT: This contract provides technical assistance to health educators at New Jersey primary care facilities and marketing support to disseminate 'SBIRT' principles.

Memorandum of Agreement Program Director 02/11/2016 - 06/30/2017 State of New Jersey, Division of Mental Health and Addiction Services \$106,000/yr (direct)

Addiction Education Program: This contract provides addiction education programming and innovative programs to enhance the addiction workforce in New Jersey.

R13AA022858 Principal Investigator 02/01/2014 - 01/31/2017 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) \$58,000 (direct)

Enhancing Dissemination and Career Development via the APA Annual Convention: This conference grant

supports alcohol-related content at the American Psychological Association convention.

R13AA017107 Principal Investigator 06/01/2010 – 05/31/2014 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) \$58,000 (direct)

The 118th, 119th, 120th Convention of the American Psychological Association: This conference grant supported convention activities organized by the Society of Addiction Psychology (Division 50) at the American Psychological Association meeting that promote information exchange between clinical and research communities.

R13AA017107 Principal Investigator 06/01/2007 – 05/31/2010 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) \$33,000 (direct)

A Legacy of Learning: The 115th, 116th, 117th Convention of the American Psychological Association: This conference grant supported convention activities to promote the career trajectories of early career psychologist with interest in alcohol research.

Grants & Contracts: Key Personnel Roles

Pending

SBIR (PI: Carry) Co-Investigator Resubmitted 9/2022
National Institute on Drug Abuse (NIDA, NIH) ~\$250,000

Preclinical studies with RUEC2-118, a novel partial GABA $_{\rm A}$ R positive allosteric modulator, for the treatment of anxiety and panic disorder, to prevent benzodiazepine dependence and overdose fatalities. This small business grant looks to explore a novel anxiolytic agent that may reduce risk of polysubstance use-related overdose death.

Complete

APA Interdivisional Grant (PI: Ruddy) Co-investigator 02/15/2019 - 08/15/2020 American Psychological Association Committee on Division/APA Relations $\sim 3,000$ (direct)

Responding to the Opioid Crisis: Perspectives from Family, Addiction and Pain Psychology: This interdisciplinary project facilitates a collaboration between medical family psychologists, pain psychologists, and addiction psychologists to produce webinars to help psychologists develop assessment and intervention competencies in opioid use and addiction.

R13AA022858 (PI: Hoeppner) Co-Investigator 02/01/2017 – 01/31/2019 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

Enhancing Dissemination and Career Development via the APA Annual Convention: This conference grant supports alcohol-related content at the American Psychological Association convention.

R21AA022748 (PI: Bates) Investigator 02/01/2014 – 01/31/2017 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

Behavioral Regulation Mechanisms of Alcohol Dependence and Related Phenotypes: This cue reactivity study measured simultaneous BOLD reactivity and cardiovascular changes in non-treatment seeking adults with an alcohol use disorder and moderate drinking controls. PI: Bates

R21AA020367 (PI: Vaschillo) Investigator 02/05/2012 – 02/04/2014 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

Examining the Vascular Tone Baroreflex as a Target for Alcohol Use Intervention: This project investigated the vascular tone baroreflex as a physiological mechanism that links the vascular actions of alcohol to adaptive behavior.

HHSN275201000003C (PI: Bates)

Investigator

04/08/2010 - 07/07/2013

National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

Multi-scale Neurophysiological Control Systems of MOBCI (mechanisms of behavior change initiation): This grant assessed models of cardiovascular control of arousal and its relation to facial emotion to uncover alcoholrelated mechanisms of behavior change.

Grants & Contracts: Mentoring & Training Roles

Pending

F31DA056207 (PI: Brinkman)

Co-mentor

Impact Score: 23 Pending Council Review

National Institute on Drug Abuse (NIDA, NIH)

Smoking-related differences in baroreflex sensitivity and fear inhibition in adults who do and do not smoke cigarettes. This individual NRSA fellowship award will pay salary and protect research time for a graduate student in the clinical psychology PhD program who will receive training in the physiological basis of behavior from me.

K23AA030328 (PI: Hogan)

Co-mentor

Impact Score: 17 Pending Council Review

National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

Understanding the role of romantic relationship conflict in alcohol misuse among emerging adults. This career development award (clinician researcher) creates a path for independence for a non-tenure track junior faculty at the Medical University of South Carolina who wishes to extend her research into the physiological basis of behavior.

Active

F31AA030178 (PI: Piersol)

Mentor

09/01/2022 - 08/31/2024

National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

~\$25,000 (direct)

Unraveling the dynamic between alcohol use and consequences in college women: Modern perspectives on the menstrual cycle, advanced statistics, and team science strategies. This individual NRSA fellowship award will pay salary and protect research time for Kelsey Piersol, my graduate student.

R25DA035161 (MPI: Ruglass/Hien)

Mentor

05/15/2020 - 04/30/2025

National Institute on Drug Abuse (NIDA, NIH)

\$350,000 (direct)

Translational Research Training on Addictions for Racial/Ethnic Minorities: This training grant focuses on providing underrepresented groups in medical and psychology fields with first-hand experiences in addiction research.

T32AA028254 (PI: Sarkar/Aston-Jones)

Mentor

08/01/2019 - 07/31/2024

National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

~\$270,000/yr (direct)

Molecular Neuroscience of Alcohol and Drug Abuse Research Training: The training grant promotes the development of promising postdoctoral research fellows as independent investigators and future University faculty members who will investigate the pathogenesis of alcoholism and drug abuse.

KL2TR003018 (PI: Radovick) Society of Scholars 03/01/2019 - 02/28/2024 National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH) \sim \$360,000/yr (direct)

New Jersey Alliance for Clinical and Translational Science (NJ ACTS) Institutional Career Development Award: This grant seeks to cultivate biomedical scientists with interests in clinical and translational research.

Complete

Loan Repayment Program (PI: Price) Co-mentor Awarded; declined (job change)
National Institute on Alcohol Abuse and Alcoholism (NIAAA, NIH)

This highly competitive program awards individuals most likely to make lifelong contributions to health science research with funds to offset graduate school loan debt. Such programs particularly benefit individuals from disadvantaged and underrepresented backgrounds.

Pilot Research Funds (PI: Esopenko) Collaborator 07/01/2020 – 06/30/2021 SHP Dean's Intramural Research Pilot Grant \$35,000 (direct)

The Effect of IPV-related TBI on Psychiatric Cognitive and Neural Outcomes in Women: This project focuses on qualitative interviews to examine sources of traumatic brain injury in women who experience intimate partner violence, and assess how different sources of TBI affect brain and behavior.

Pilot Research Funds (PI: Esopenko) Collaborator 09/01/2018 – 08/31/2019 SHP Dean's Intramural Research Pilot Grant \$35,000 (direct)

Cognitive, Psychological, and Neurological Outcomes in Athletes with Exposure to Brain Trauma: Effect of Sex and Neck Strength: This project collected neural, neck strength, and psychosocial data from NCAA Division III athletes to develop a comprehensive dataset to understand risk for concussion.

P30CA072720-5931 (PI: Fong) Collaborator 06/01/2020 - 05/31/2021 National Cancer Institute (NCI/NIH) - CINJ Pilot Award/New Investigator $^{\circ}$ \$40,000 (direct)

Breast Cancer and Resistance Exercise Program (B-REP): This pilot project proposal seeks to test the feasibility of an online-delivered exercise program; link exercise, social support, inflammation biomarkers, and stress; and identify beliefs and preferences about social support in breast cancer survivors.

Publications

- 1. Price, J.L., Bates, M.E., Pawlak, A., Uhouse, S.G., Todaro, S.M., Morgano, J., & Buckman, J.F. (2022). Use and perceived usefulness of a just-in-time resonance breathing intervention adjunct for substance use disorder: Contextual and physiological predictors. Frontiers in Psychiatry 13: 945751.
- 2. Bates, M.E., Price, J.L., Leganes-Fonteneau, M., Muzumdar, N., Piersol, K.L., Frazier, I., & Buckman, J.F. (2022). The process of heart rate variability, resonance at 0.1 Hz, and the three baroreflex loops: a tribute to Evgeny Vaschillo. Applied Psychophysiology and Biofeedback, *ePub Ahead of Print*: 1-14.
- 3. Price, J.L., Bates, M.E., Morgano, J., Todaro, S., Uhouse, S.G., Vaschillo, E., Vaschillo, B., Pawlak, A., & Buckman J.F. (2022). Effects of arousal modulation via resonance breathing on craving and affect in women with substance use disorder. Addictive Behaviors 127: 107207.
- 4. Saalfield, J., Piersol, K.L., Monaco, R., Womack, J., Weismiller, S.A., Esopenko, C., Todaro, S.M., Conway, F.N., Brostrand, K., & Buckman, J.F. (2022). Comparison of concurrent and same-day balance measurement systems in a large sample of uninjured collegiate athletes. International Journal of Sport Physical Therapy

- 17(2): 228-236.
- 5. Leganes-Fonteneau, M., Bates, M.E., Islam, S. & Buckman, J.F. (2022). Changes in interoception after alcohol administration correlate with expectancies and subjective effects. Addiction Biology 27(1): e13098.
- 6. Eddie, D., Bates, M.E., & Buckman, J.F. (2022). Closing the loop between heart and brain: A more holistic neurobiological model of addiction and addiction recovery (Invited Review). Addiction Biology 27(1): 1-9.
- 7. Saalfield, J., Piersol, K.L., Esopenko, C., Bates, M.E., Weismiller, S.A., Brostrand, K., Todaro, S.M., Conway, F.N., Wilde, E.A., & Buckman, J.F. (2021). Digital neuropsychological test performance in a large sample of uninjured collegiate athletes. Applied Neuropsychology: Adult 25:1-7.
- 8. Leganes-Fonteneau, M., Bates, M.E., Muzumdar, N., Pawlak, A., Islam, S., Vaschillo, E.G., & Buckman, J.F. (2021). The cardiovascular mechanisms of interoceptive awareness: Effects of resonance breathing. International Journal of Psychophysiology 169:71-87. *pre-registered report
- 9. Eddie, D., Price, J.L., Bates, M.E., & Buckman, J.F. (2021) Substance use and addiction affect more than the brain: the promise of neurocardiac interventions. Current Addiction Reports 8:431-439.
- 10. Bates, M.E., Price, J., & Buckman, J.F. (2021). Neuropsychological and biological influences on drinking behavior change. *In* Pathways to Recovery from Alcohol Use Disorder. *Editors:* K. Witzkiewitz and J.A. Tucker. Cambridge University Press. Pp. 60-76
- 11. Leganes-Fonteneau, M., Bates, M.E., Pawlak, A., & Buckman, J.F. (2021). Does alcohol affect emotional face processing via interoceptive pathways? Phase I In Principle Acceptance of Registered Report. Drug & Alcohol Dependence 226: 108845.
- 12. deSouza, N.L., Buckman, J.F., Dennis, E.L., Wilde, E.A., Tate, D.F., & Esopenko, C. (2021). Association between white matter organization and cognitive performance in athletes with a history of sport-related concussion. Journal of Clinical and Experimental Neuropsychology 43(7): 704-715.
- 13. Remchak, M., Piersol, K., Bhatti, S., Spaeth, A., Buckman, J.F, Malin, S. (2021) Considerations for maximizing the exercise "drug" to combat insulin resistance: role of nutrition, sleep, and alcohol. Nutrients, 13(5): 1708.
- 14. Porfido, T., de Souza, N.L., Brown, A.M., Buckman, J.F., Fanning, B.D., Parrott, J.S., & Esopenko, C. (2021). The relation between neck strength and psychological distress: preliminary evidence from collegiate soccer athletes. Concussion 6(2): CNC91.
- 15. Weismiller, S.A., Monaco, R., Womack, J., Alderman, B., Esopenko, C., Conway, F.N., Brostrand, K., Brown, A., de Souza, N.L., & Buckman, J.F. (2021). Individual baseline balance assessments in a large sample of incoming NCAA Division I athletes using a force plate system. International Journal of Sports Physical Therapy.
- 16. Leganes-Fonteneau, M., Bates, M.E., Vaschillo, E.G., & Buckman, J.F. (2021). An interoceptive basis for alcohol priming effects. Psychopharmacology 238(6): 1621-1631.
- 17. Leganes-Fonteneau, M., Buckman, J., Pawlak, A., Vaschillo, B., Vaschillo, E., & Bates, M.E. (2021). Interoceptive signals in alcohol cognitive biases: Role of family history and alliesthetic components. Addiction Biology, 26(3): e12952.

- 18. Leganes-Fonteneau, M., Buckman, J.F., Suzuki, K., Pawlak, A., & Bates, M.E. (2021). More than meets the heart: Systolic amplification of different emotional faces is task dependent. Cognition and Emotion, 35(2): 400-408.
- 19. de Souza, N.L., Esopenko, C., Conway, F.N., Todaro, S.M., & Buckman, J.F. (2021). Patterns of health behaviors affecting mental health in collegiate athletes. Journal of American College Health 69(5): 495-502.
- 20. de Souza, N.L., Dennis, E.L., Brown, A.M., Singh, S., Wilde, E.A., Buckman, J.F., Esopenko, C. (2020). Relation between isometric neck strength and white matter organization in collegiate athletes. Neurotrauma Reports 1:232-240.
- 21. Esopenko, C., de Souza, N.L., Conway, F.N., Todaro, S.M., Brostrand, K., Womack, J., Monaco, R., & Buckman, J.F. (2020). Bigger necks are not enough: an examination of neck circumference in incoming college athletes. Journal of Primary Prevention, 41(5): 421-429.
- 22. Conway, F.N., Domingues, M., Monaco, R., Lesnewich, L.M., Ray, A.E., Alderman, B.L., Todaro, S.M., & Buckman, J.F. (2020). Concussion symptom underreporting among incoming National Collegiate Athletic Association Division I college athletes. Clinical Journal of Sports Medicine, 30(3), 203-209.
- 23. Bates, M.E., Mun, E.Y., Buckman, J.F., Vaschillo, E., Vaschillo, B., Lehrer, P., Udo, T., & Lesnewich, L.M. (2020). Getting to the heart of low sensitivity to alcohol: Context moderates suppressed cardiovascular adaptation to oral alcohol in persons with a family history of alcohol use disorder. Alcoholism: Clinical and Experimental Research, 44(3), 589-599.
- 24. Buckman, J.F., Vaschillo, B., Vaschillo, E.G., Epstein, E.E., Nguyen-Louie, T.T., Lesnewich, L.M., Eddie, D., & Bates, M.E. (2019). Improvement in women's cardiovascular functioning during cognitive-behavioral therapy for alcohol use disorder. Psychology of Addictive Behaviors, 33(8), 659-668.
- 25. Bates, M.E., Lesnewich, L.M., Uhouse, S.G., Gohel, S., & Buckman, J.F. (2019). Resonance-paced breathing alters neural response to visual cues: Proof-of-concept for a neuroscience-informed adjunct to addiction treatments. Frontiers in Psychiatry, 10, 624-635.
- 26. Lesnewich, L.M., Conway, F.N., Buckman, J.F., Brush, C.J., Ehmann, P.J., Eddie, D., Olson, R.L., Alderman, B.A., & Bates, M.E. (2019). Associations of depression severity with heart rate and heart rate variability in young adults across normative and clinical populations. International Journal of Psychophysiology, 142, 57-65
- 27. Leyro, T.M., Buckman, J.F., & Bates, M.E. (2019). Theoretical implications and clinical support for heart rate variability biofeedback for substance use disorders. Current Opinion in Psychology, 30, 92-97.
- 28. Brush, C.J., Olson, R.L., Ehmann, P.J., Bocchine, A.J., Bates, M.E., Buckman, J.F., Leyro, T.M., & Alderman, B.A. (2019). Lower resting cardiac autonomic balance in young adults with current major depression. Psychophysiology, 56(8), e13385: 1-13.
- 29. Streifer, M., Brown, A.M., Porfido, T., Anderson, E.Z., Buckman, J.F., & Esopenko, C. (2019). The potential role of the cervical spine in sports-related concussion: Clinical perspectives and considerations for risk reduction. Journal of Orthopaedic and Sports Physical Therapy, 49(3), 202-208.
- 30. White, H.R., Conway, F.N., Buckman, J.F., & Loeber, R. (2018). Does substance use exacerbate escalation

- along developmental pathways of covert and overt externalizing behaviors among young men? Journal of Developmental & Life-Course Criminology, 4(2), 137-147.
- 31. Eddie, D., Conway, F.N., Alayan, N., Buckman, J., & Bates, M.E. (2018). Assessing heart rate variability biofeedback as an adjunct to college recovery housing programs. Journal of Substance Abuse Treatment, 92, 70-76.
- 32. Buckman, J.F., Vaschillo, E.G., Fonoberova, M., Mezić, I., & Bates, M.E. (2018). The translational value of psychophysiology methods and mechanisms: Multi-level, dynamic, personalized. [Special Section of Mechanisms of Behavior Change] Journal of Studies on Alcohol and Drugs, 79(2), 229-238.
- 33. Olson, R.L., Brush, C.J., Ehmann, P.J., Buckman, J.F., & Alderman, B.L. (2018). A history of sport-related concussion is associated with sustained deficits in conflict and error monitoring. International Journal of Psychophysiology, 132(Pt A), 145-154.
- 34. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Heiss, S., Singh, G., & Bates, M.E. (2018). Early signs of cardiovascular dysregulation in young adult binge drinkers. Psychophysiology 55(5), e13036: 1-13.
- 35. Nguyen-Louie, T.T., Buckman, J.F., Ray, S. & Bates, M.E. (2016). Drinkers' memory bias for alcohol picture cues in explicit and implicit memory tasks. Drug and Alcohol Dependence, 160, 90-6.
- 36. Buckman, J.F., Eddie, D., Vaschillo, E. G., Vaschillo, B., Garcia, A., & Bates, M. E. (2015). Immediate and complex cardiovascular adaptation to an acute alcohol dose. Alcoholism: Clinical and Experimental Research, 39(12), 2334-2344.
- 37. White, H.R., Buckman, J., Pardini, D., & Loeber, R. (2015). The association of alcohol and drug use with persistence of violent offending in young adulthood. Journal of Developmental and Life-Course Criminology 1(3), 289-303.
- 38. Alderman, B.L., Olson, R.L., Bates, M.E., Selby, E.A., Buckman, J.F., Brush, C.J., Panza, E.A., Kranzler, A., Eddie, D. & Shors, T.J. (2015). Rumination in major depressive disorder is associated with impaired neural activation during conflict monitoring. Frontiers in Human Neuroscience, 9, 269: 1-14.
- 39. Vaschillo, E., Vaschillo, B., Buckman, J.F., Nguyen-Louie, T., Heiss, S., Pandina, R. J. & Bates, M.E. (2015). The effects of sighing on the cardiovascular system. Biological Psychology, 106, 86-95.
- 40. Fonoberova, M. Mezić, I., Buckman, J.F. Fonoberov, V., Mezić, A., Vaschillo, E.G., Mun, E-Y., Vaschillo, B., & Bates, M.E. (2014). A computational physiology approach to personalized treatment models: the beneficial effects of slow breathing on the human cardiovascular system. American Journal of Physiology Heart & Circulation, 307, H1073–H1091.
- 41. Bates, M.E. & Buckman, J.F. (2013). Integrating Body and Brain Systems in Addiction Neuroscience. In P. Miller (Ed.) Biological Research on Addiction: Comprehensive Addictive Behaviors and Disorders, Volume 2, New York: Academic Press.
- 42. Bates, M.E., Buckman, J.F., and Bates-Krakoff, J. (2013). Treatment of addictions and effects of neuropsychological impairment on mechanisms of behavior change. In D. N. Allen & S.P. Woods (Eds.), Neuropsychological Aspects of Substance Use Disorders: Evidence-Based Perspectives, Oxford University Press, 82-102.

- 43. Bates, M.E., Buckman, J.F., Voelbel, G. Eddie, D., & Freeman, J. (2013). The mean and the individual: Integrating variable-centered and person-centered analyses of cognitive recovery in patients with substance use disorders. Frontiers in Psychiatry, 4, 177: 1-12.
- 44. Lehrer, P., Buckman, J.F., Mun, E-Y, Vaschillo, E.G., Vaschillo, B., Udo, T., Nguyen, T., & Bates, M.E. (2013). Negative mood and alcohol problems are related to respiratory dynamics in young adults. Applied Psychophysiology and Biofeedback, 38, 273-284.
- 45. Udo, T., Mun, E. Y., Buckman, J.F., Vaschillo, E. G., Vaschillo, B., & Bates, M. E. (2013). Potential side effects of unhealthy lifestyle choices and health risks on basal and reactive heart rate variability in college drinkers. Journal of Studies on Alcohol and Drugs, 74, 787-796.
- 46. Buckman, J.F., Farris, S.G., & Yusko, D.A. (2013). A national study of substance use behaviors among NCAA male athletes who use banned performance enhancing substances. Drug and Alcohol Dependence 131(1-2), 50-55.
- 47. Bates, M.E., Buckman, J.F., & Nguyen, T.T. (2013). A role for cognitive rehabilitation in increasing the effectiveness of treatment for alcohol use disorders. Neuropsychology Review, 23(1), 27-47.
- 48. Eddie, D., Buckman, J.F., Mun, E-Y., Vaschillo, B., Vaschillo, E., Udo, T., Lehrer, P., & Bates, M.E. (2013). Different associations of alcohol cue reactivity with negative alcohol expectancies in mandated and inpatient samples of young adults. Addictive Behaviors, 38(4), 2040-2043.
- 49. Bates, M.E. & Buckman, J.F. (2012). Emotional dysregulation in the moment: Why some college students may not mature out of hazardous alcohol and drug use. In D. Rabiner and H. R. White (Eds.), College Student Drinking and Drug Use: Multiple Perspectives on a Complex Problem, NY: Guilford Press, 83-101.
- 50. Ray, S., Mun, E.Y., Buckman, J.F., Udo, T. & Bates, M.E. (2012). Memory for emotional picture cues during acute alcohol intoxication. Journal of Studies on Alcohol and Drugs, 73(5), 718-25.
- 51. Vaschillo, E.G., Vaschillo, B., Buckman, J. F., Pandina, R. J., & Bates, M.E. (2012). Measurement of vascular tone and stroke volume baroreflex gain. Psychophysiology, 49(2), 193-197.
- 52. Bates, M.E., Buckman, J.F., Vaschillo, E., Fonoberov, V.A., Fonoberova, M., Vaschillo, B., Mun E.Y., Mezić, A., & Mezić, I. (2011). The redistribution of power: Neurocardiac signaling, alcohol and gender. PLoS ONE 6(12), e28281: 1-9.
- 53. Buckman, J.F., Yusko, D.A., Farris, S.G., White, H.R., & Pandina, R.J. (2011). Risk for marijuana use in male and female college student athletes and non-athletes. Journal of Studies on Alcohol and Drugs 72(4),586-591.
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- 59. Buckman, J.F., Bates, M.E. & Morgenstern, J. (2008). Social support and cognitive impairment in clients receiving treatment for alcohol- and drug-use disorders: A replication study. Journal of Studies on Alcohol and Drugs, 69(5), 738-746.
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- 61. Buckman, J.F., Bates, M.E., & Cisler, R.A. (2007). Social Networks and their influence on drinking behaviors: Differences related to cognitive impairment in clients receiving alcoholism treatment. Journal of Studies on Alcohol and Drugs, 68(5), 738-747.
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- 63. Bates, M.E., Pawlak, A.T., Tonigan, J.S., & Buckman, J.F. (2006). Cognitive impairment influences drinking outcome by altering therapeutic mechanisms of change. Psychology of Addictive Behaviors, 20(3), 241-253.
- 64. Bates, M.E., Voelbel, G.T., Buckman, J.F., Labouvie, E.W., & Barry, D. (2005). Short-term neuropsychological recovery in clients with substance use disorders. Alcoholism: Clinical and Experimental Research, 29(3), 367-377.
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- 67. Buckman, J.F., Hernandez, H., Kress, G.J., Votyakova, T., Pal, S., & Reynolds, I.J. (2001). MitoTracker labeling in primary neuronal and astrocytic cultures: Influence of mitochondrial membrane potential and oxidants. Journal of Neuroscience Methods 104(2), 165-176.
- 68. Buckman, J.F. & Meshul, C.K. (1999). Glial differences between naïve Withdrawal Seizure-Prone and Resistant mice. Alcoholism: Clinical and Experimental Research 23(12), 1905-1913.
- 69. Buckman, J.F., Meshul, C.K., Finn, D.A., & Janowsky, A. (1999). Glutamate uptake in mice bred for ethanol withdrawal severity. Psychopharmacology 143(2), 174-182.
- 70. Meshul, C.K., Emre, N., Nakamura, C.M., Allen, C., Donohue, M.K., Buckman, J.F. (1999). Time-dependent changes in striatal glutamate synapses following a 6-hydroxydopamine lesion. Neuroscience 88(1), 1-16.

- 71. Buckman, J.F. & Meshul, C.K. (1997). Immunocytochemical analysis of glutamate and GABA in selectively bred mice. Brain Research 760(1-2), 193-203.
- 72. Meshul, C.K., Buckman, J.F., Allen, C., Riggan, J., Feller, D.J. (1996). Activation of corticostriatal pathway leads to similar morphological changes observed following haloperidol treatment. Synapse 22(4), 350-361.

Manuscripts under review

- 73. Best, L.M., Hendershot, C.S., Buckman, J.F., Jagasar, S., McPhee, M., Muzumdar, N., Tyndale, R.F., Houle, S., Logan, R., Kish, S.J., Le Foll, B. & Boileau, I. (*submitted* 8/2022 to Biological Psychiatry). Endocannabinoid Metabolism as a Predictor of Risk for Alcohol Use Disorder: A PET Imaging Study with [C-11]CURB in Heavy Drinking Youth.
- 74. Price, J.L., Eddie, D., Buckman, J.F., & Bates, M.E. (*submitted* 11/2022 to Drug and Alcohol Dependence). Beyond vagal impact: HRV biofeedback improves peak 0.1 Hz HRV response during resonance breathing in individuals recovering from substance use disorder.
- 75. Mehr, J.B., Bennett, E.R., Price, J.L., de Souza, N.L., Buckman, J.F., Wilde, E.A., Tate, D.F., Marshall, A.D., & Esopenko, C. (*resubmitted* 11/2022 to Frontiers in Psychology). Women's intimate partner violence exposure, substance use, and associated comorbidities: A narrative review.

Manuscripts in preparation

- 76. Muzumdar, N., Leganes-Fonteneau, M., Bates, M.E., & Buckman, J.F. (*submitted* 11/2022 to International Journal of Psychophysiology). Nothing to rescue: If cognitive load is not sufficient to affect cardiovascular dynamics, resonance paced breathing cannot facilitate performance.
- 77. Muzumdar, N, Buckman, J.F., Spaeth A.M., Pawlak, A., Jackson, K.M. & White, H.R. (*analyses complete, writing in process; to be submitted* 11/2022 to Addictive Behavior). The effects of alcohol use and/or cannabis use on nightly sleep: daily diary data across two 28-day bursts.
- 78. Carry, E., Vasilatis, A., Roberge, J., Simon, J.E., Bello, N.T., & Buckman, J.F. (*final editing phase, to be submitted* 12/2022 to Frontiers in Pharmacology). Polysubstance use of opiates, alcohol, and benzodiazepines relative to current pharmacotherapies and drug development.
- 79. Conway, F.N., Todaro, S.M., Lesnewich, L.M., de Souza, N., Nolen, E., Jeong, H., & Buckman, J.F. (*final writing stage; submitted to 12/2022 to International Journal of Sports Medicine*). Athletes and aggression: A systematic review of physical and verbal off-field behaviors.
- 80. Piersol, K. L., Bates, M.E., Muzumdar, N., & Buckman, J. F. (*data analysis stage*; to be submitted 12/2022 to Alcoholism: Clinical and Experimental Research). Substance use increases coupling between cardiovascular parameters.
- 81. Buckman, J.F., Muzumdar, N., Leganes-Fonteneau, M., Piersol, K.L., Price, J.L., & Bates, M.E. (*initial writing stage*; *to be submitted 1/2023* to Addiction Biology). The physiological, neural, and behavioral effects of episodic resonance breathing.

Teaching

Undergraduate Courses

Fall Cannabis: From Counterculture to Cure-all (01:377:360)

2020, 2021, 2022

Spring Honors Seminar in Health Science: Research Principles and Methods

2019, 2020, 2021, 2022 (01:377:480)

Fall and Spring Honors Research (01:377:481)

2019, 2020, 2021, 2022

Fall Topics in Kinesiology (01:377:482)

2019

Graduate Courses

Spring Research Methods in Exercise Science (16:572:505)

2019, 2020

Summer Biological Basis of Behavior (18:820:622)

2017

Team Taught Graduate Courses

Spring Neurophysiology of Health (16:572:511)

2022 TOPICS: Neuropharmacology (pharmacokinetics and pharmacodynamics) &

Neuroscience of cardiovascular control

Mini-courses and Workshops

Spring 2018 Grantsmanship for Addiction Treatment Providers

Professional Development Series, Center of Alcohol Studies

Summer 2016 New Theories of Addiction: Beyond Dopamine and the Reward Center

Summer School of Addiction Studies, Center of Alcohol Studies

Summer 2013 Neuroscience for the Clinician: Making it Relevant

Institute of Addiction Studies, Center of Alcohol Studies

Guest Lectures

Fall 2022 Drinking and Drug use: Health and Safety Concerns

Byrne Seminar - Wellness and Healthy Lifestyle for College Students

Spring 2022 An Open Conversation about Cannabis Use

Byrne Seminar - Responsibility Grows in the Garden State: Introduction to

Cannabis Research through Library Resources

Spring 2021 Psychoactive Drugs

Department of Kinesiology and Health, Contemporary Health Issues Course

Fall 2020 Is Alcohol Part of a Healthy or Unhealthy Lifestyle? (Spoiler Alert: It Depends)

Department of Kinesiology and Health, Principles of Healthy Lifestyle Course

Spring 2018 Alcohol Use and Behavior

Department of Kinesiology and Health, Principles of Healthy Lifestyle Course

Fall 2018 Alcohol Use and Health

Department of Kinesiology and Health, Contemporary Health Problems Course

Fall 2017 Alcohol Use and Health

Department of Kinesiology and Health, Contemporary Health Problems Course

Spring 2017 The Physiological Basis of Addiction

Byrne Seminar - Topics in Addiction

Spring 2016 Athletes and Substance Use

Byrne Seminar - Topics in Addiction

Fall 2011, 2012, 2013 The Genetics of Addiction

Byrne Seminar - Why is it so hard to 'Just Say No'

Fall 2009 The Genetics of Addiction and the Role of Psychology

Center of Alcohol Studies graduate seminar on addiction for NIAAA trainees

Fall 2009 Biology and Human Development

Human Development, Graduate School of Applied and Professional Psychology

Spring 2009 Studying the Genetics of Addiction: Importance of a Transdisciplinary Approach

Center of Alcohol Studies, NIAAA T32 graduate seminar on addiction

Fall 2008 Alcohol, Drugs, and the Brain.

Health and Social Justice; Rutgers University - Newark

Spring 2008 The role of statistics in studying the genetics of alcoholism

Center of Alcohol Studies, NIAAA T32 graduate seminar on addiction

Post-Doctoral and Junior Faculty Mentoring

2021 - present Angelo DiBello, Ph.D., Assistant Professor

Center of Alcohol and Substance Use Studies

Rutgers University – New Brunswick

2020 - present Anthony Pawlak, Ph.D., Assistant Research Professor

Center of Alcohol and Substance Use Studies

Rutgers University – New Brunswick

2020 - present Julianne Price, Ph.D., Post-doctoral Fellow

	NIH T32 training grant (MNDART) recipient Department of Kinesiology and Health, Rutgers University – New Brunswick
2019 - present	Angela Fong, Ph.D., Instructor of Medicine Cancer Institute of New Jersey
2018 - present	Andrea Spaeth, Ph.D., Assistant Professor Department of Kinesiology and Health Rutgers University – New Brunswick
2018 - present	Mateo Leganes-Fonteneau, Ph.D., Post-doctoral Associate / Research Associate Center of Alcohol and Substance Use Studies & Department of Kinesiology and Health, Rutgers University – New Brunswick
2018 - 2020	Sungjin Im, Ph.D., Post-doctoral Associate Center of Alcohol and Substance Use Studies Rutgers University – New Brunswick
2018 - 2020	Jessica Saalfield, Ph.D., Post-Doctoral Fellow NIH K12/INSPIRE training program recipient Department of Pathology, Rutgers Biomedical and Health Science
2017 - 2021	Carrie Esopenko, Ph.D., Assistant Professor Department of Rehabilitation and Movement Sciences, School of Health Professions, Rutgers University – Newark
2016 - 2018	Fiona Conway, Ph.D., Post-Doctoral Fellow Center of Alcohol Studies, Rutgers University
1999	Kato Han, M.D., Research Fellow Children's Hospital, Pittsburgh, PA

Student Mentoring

PRIMARY MENTORSHIP - DOCTORAL STUDENTS

2020 - present	Kelsey Piersol, MS, Kinesiology and Applied Physiology Ph.D. program Rutgers University, School of Graduate Studies
2020 - present	Neel Muzumdar, Kinesiology and Applied Physiology Ph.D. program Rutgers University, School of Graduate Studies
2013 - 2015	Fiona Conway, Social Work Ph.D. program Rutgers University — New Brunswick

DISSERTATION COMMITTEE MEMBERSHIPS

2021 – present Andrew Ude, Kinesiology and Applied Physiology Ph.D. program

Rutgers University, School of Graduate Studies

Recipient of the Leon A. Greenberg Outstanding Graduate Student Award

2019 - 2022	Nicola DeSouza, Biomedical Sciences Ph.D. program, School of Health Professions, Rutgers Biomedical and Health Sciences	
2019 - 2022	Traci McCarthy, Kinesiology and Applied Physiology Ph.D. program Rutgers University, School of Graduate Studies	
2020 - 2021	Eileen Carry, Medicinal Chemistry Ph.D. program Rutgers University, School of Graduate Studies	
2019 - 2021	Anthony Bocchine, Kinesiology and Applied Physiology Ph.D. program Rutgers University, School of Graduate Studies	
2013 - 2015	Fiona Conway, Social Work Ph.D. program Rutgers University – New Brunswick	
2011	Holly Meadows, Graduate student, School of Psychological Science La Trobe University, Australia	
2010	Nora Merritt, School Psychology program, Graduate School of Applied and Professional Psychology, Rutgers University – New Brunswick	
2006	Gianna Locascio, School Psychology program, Graduate School of Applied and Professional Psychology, Rutgers University – New Brunswick	
2005-2006	David Yusko, Clinical Psychology program, Graduate School of Applied and Professional Psychology, Rutgers University – New Brunswick	
QUALIFYING EXAM COMMITTEE MEMBERS		
2021-2022	Andrew Ude, Kinesiology and Applied Physiology Ph.D. program Rutgers University, School of Graduate Studies	
2021-2022	Hannah Brinkman, Clinical Psychology Ph.D. program Rutgers University, School of Graduate Studies	
2020	Traci McCarthy, Kinesiology and Applied Physiology Ph.D. program Rutgers University, School of Graduate Studies	
2019 - 2020	Anthony Bocchine, Kinesiology and Applied Physiology Ph.D. program Rutgers University, School of Graduate Studies	
MASTER'S THESIS COMMITTEES & RESEARCH MENTORSHIPS		
2019 - 2021	Thesis Committee Member & Primary Graduate Research Advisor Sabrina Todaro, Masters Program in Psychological Sciences Rutgers University Camden	
2014 - 2015	Graduate Research Advisor Marianne Domingues, Master in Public Health /Physician Assistant program	

Rutgers Biomedical and Health Sciences

Recipient of the Stuart D. Cook, M.D. MPH Student Public Health Research

Award

2014 - 2015 Graduate Research Advisor

George Godwin IV, Graduate School of Biomedical Sciences Masters program

Rutgers Biomedical and Health Sciences

2014 - 2015 Graduate Research Advisor

Scott Weismiller, Graduate School of Biomedical Sciences Masters program

Rutgers Biomedical and Health Sciences

2014 - 2015 Masters Thesis Committee Member

Deena Peyser, Clinical Psychology Ph.D. program

Rutgers University – New Brunswick

GRADUATE TRAINEES, LAB ROTATIONS

2018 Lab Rotation Supervisor

Nicola DeSouza, Biomedical Sciences Ph.D. program, School of Health

Professions Rutgers Biomedical and Health Sciences

UNDERGRADUATE TRAINEES, HONORS PROGRAMS

2022 - present	Mark Youssef, SEBS Cook Scholars Honors Department of Biological Sciences
2022 - present	June Kim, Departmental Honors in Research Program Department of Kinesiology and Health
2021 - 2022	Carly Paternite, Departmental Honors in Research Program Department of Kinesiology and Health
2021 - 2022	Megan Demeo, Departmental Honors in Research Program Department of Kinesiology and Health
2021 - 2022	Zarif Ladak, Departmental Honors in Research Program Department of Kinesiology and Health
2021 - 2022	Venkatasai Jonna, Departmental Honors in Research Program Department of Kinesiology and Health
2020 - 2021	Meryem Turan, George H. Cook Scholars Program Department of Kinesiology and Health
2020 - 2021	Alexis Achenbach, Departmental Honors in Research Program Department of Kinesiology and Health
2012 - 2013	Ryan Holland, Interdisciplinary Honors Thesis Program Department of Cell Biology and Neuroscience, Physics Department

Recipient of the John A. Carpenter Award for Outstanding Undergraduate Thesis

UNDERGRADUATE TRAINEES, SPECIAL PROGRAMS

2020 Tyshana Campbell

Douglass Project for Rutgers Women in Math, Science & Engineering.

Rutgers University – New Brunswick

2019 Isabelle Cerami

First Year Interest Groups (FIGS) Mentor Rutgers University – New Brunswick

2019 Kaycie Elifani

Douglass Project for Rutgers Women in Math, Science & Engineering.

Rutgers University – New Brunswick

2019 Alexandra Jacko

Douglass Project for Rutgers Women in Math, Science & Engineering.

Rutgers University – New Brunswick

2016 Jenna Thomas

Douglass Project for Rutgers Women in Math, Science & Engineering.

Rutgers University – New Brunswick.

2015-2019 Urvi Saini

Douglass Project for Rutgers Women in Math, Science & Engineering.

Rutgers University – New Brunswick

UNDERGRADUATE TRAINEES, INDEPENDENT STUDY & INTERNSHIP

2022 Independent Study Advisor

Samuel Shrem, Department of Psychology Rutgers University – New Brunswick

2020 Independent Study Advisor

Venkatasai Jonna, Department of Kinesiology and Health

Rutgers University – New Brunswick

2019 Internship Advisor

Nihir Parikh, Department of Kinesiology and Health

Rutgers University – New Brunswick

2014 - 2015 Senior Thesis Mentor

Hena Narotem, Public Health major Rutgers University – New Brunswick

2014 Summer Research Project Mentor

Azad Hirpara, First year medical student Rutgers Robert Wood Johnson Medical School 2014 Summer Research Project Mentor

Darnell Alexandre, First year medical student Rutgers Robert Wood Johnson Medical School

2013 - 2014 Research Project Advisor

Samantha Waldenberg, High school student

Livingston High School, NJ

2013 Summer Research Project Mentor

Taryn Webb, First year medical student

Rutgers Robert Wood Johnson Medical School

2013 Summer Research Project Mentor

Kamali Thompson, First year medical student Rutgers Robert Wood Johnson Medical School

2010-2012 Independent Study Advisor

Maaz Jalil, Cell Biology and Neuroscience program

Rutgers University – New Brunswick

2008 Research Mentor (undergraduate)

Georgia Kouzoukas, Henry Rutgers Scholar Thesis

2007 Independent Study Advisor (undergraduate)

Justine Bates-Krakoff, Department of Psychology

Rutgers University – New Brunswick

2000 Project Mentor (undergraduate)

Heather Hollingsworth, Undergraduate student and ASPET awardee

Allegheny College, Pittsburgh, PA

1999 Project Mentor (undergraduate/summer)

Hélène Hernández, Ecole Normale Supérieure de Cachan, Paris, France

Professional Association Memberships

2005 – present American Psychological Association

2003 – present Research Society on Alcoholism

2005 – present Society of Addiction Psychology (APA Division 50)

University Affiliations

Member Rutgers University – New Brunswick

NJ Institute for Food, Nutrition, and Health

2019 – present

Adjunct Member	Rutgers University – Newark Graduate School of Biomedical Sciences, Cell Biology, Neuroscience, & Physiology track	2018 – present
Graduate Faculty	Rutgers University – New Brunswick Rutgers School of Graduate Studies	2017 – present
Resident Scholar	Rutgers University – New Brunswick Center of Alcohol and Substance Use Studies	2017 – present
Member	Rutgers Biomedical and Health Sciences Brain Health Institute	2015 – present

Elected Professional Offices

2017 - 2020 President, Society of Addiction Psychology

2006 - 2015 Treasurer, Society of Addiction Psychology

Awards and Fellowships

2019	George J. Davies – James A. Gould Excellence in Clinical Inquiry Award for co- authored paper, <i>The Potential Role of the Cervical Spine in Sports-Related</i> <i>Concussion: Clinical Perspectives and Considerations for Risk Reduction</i>
2018	Fellow, American Psychological Association
2013	Presidential Special Award for Extraordinary Service to the Division for 2007- 2013 (Society of Addiction Psychology)
2013	Distinguished Service Award (Society of Addiction Psychology)
2000	Travel Award (Keystone Symposia: Mitochondrial Dysfunction in Pathogenesis)
1999 - 2000	Institutional Training Grant (NINDS, PI: M. Zigmond, T32NS07391)
1999	Travel Award (Center for Neuroscience at the University of Pittsburgh)
1997	Institutional Training Grant (NIAAA, PI: J. Crabbe, T32DA07262)
1995 – 1997	Institutional Training Grant (NIAAA, PI: C. Cunningham, T32AA07468)
1995 – 1996	N.L. Tartar Research Fellowship (Oregon Health & Science University)
1993 – 1995	Institutional Training Grant (NHLBI, PI: J. Matarazzo, T32HL07332)

Professional Service Activities

GRANT REVIEWER ROLES

2022 Ad hoc Reviewer

National Institutes of Health, National Institute on Alcohol Abuse and

Alcoholism, Special Emphasis Panel for Fellowship Applications (2022/10 ZAA1

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2022 Ad hoc Reviewer

National Institutes of Health, Center for Scientific Review, Addiction Risks and

Mechanisms (ARM) study section

2020 Grant Reviewer

The Netherlands Brain Foundation

2019 Grant Reviewer

Canadian Foundation for Innovation. John K. Evans Leaders Fund

2019 Grant Reviewer

ZonMW Open Competition grant program. The Netherlands Organization for

Health Research and Development

2017 - 2019 Grant Reviewer

Society of Addiction Psychology Early Career Grant Program

2018 - 2020 Grant Reviewer

Society of Addiction Psychology Student Grant Program

2016 Ad hoc Reviewer

National Institutes of Health, Center for Scientific Review, Risk, Prevention and Health Behavior Independent Scientific Review Group, Special Emphasis Panel

2016 Ad hoc Reviewer

National Institutes of Health, Center for Scientific Review, Addiction Risks and

Mechanisms (ARM) study section

JOURNAL REVIEWER AND EDITORIAL ROLES

2015 - 2022 Assistant Field Editor

* Verified Editorial Contributions: 59
Journal of Studies on Alcohol and Drugs

2014 - present Editorial Board

Psychology of Addictive Behaviors

2010 – present Manuscript Reviewer

* Verified Reviews: 41 (publons.com)

Addictive Behaviors, Alcohol and Alcoholism, Alcoholism: Clinical and

Experimental Research, BMJ, Drug and Alcohol Dependence, Experimental and Clinical Psychopharmacology, International Journal of Psychophysiology, Journal of the American Pharmacists Association, Journal of Research on Adolescence, Journal of Science and Medicine in Sport, Journal of Sport & Social Issues, Journal of Studies on Alcohol and Drugs, PLoS ONE, Medicine & Science

COMMITTEES & PANELS

2022 – present	Member Editor-in-chief search committee, Journal of Studies on Alcohol and Drugs
2019 – present	Co-chair Collaborative Perspectives on Addiction Advisory Committee, Society of Addiction Psychology
2019	Panel Member National Institute of Health, National Institute on Alcohol Abuse and Alcoholism, Division of Epidemiology and Prevention Research. "Brief Interventions for College and Young Adults: Strengthening Effects and Disentangling Mechanisms of Action to Build Personalized Interventions for Widespread Uptake."
2019	Panel Member National Institute of Health, National Institute on Alcohol Abuse and Alcoholism, Division of Treatment and Recovery Research. "Taking Stock of Advancing Technology for the Treatment and Prevention of Alcohol Use Disorders."
2015 - 2016	Grantsmanship Coach National Research Mentoring Network (NRMN), Committee on Institutional Cooperation (CIC) Academic Network
2015 - 2019	Member Advisory Committee, Collaborative Perspectives on Addiction conference
2013 - 2015	Conference Treasurer Inaugural Collaborative Perspectives on Addiction conference
2013 - 2014	Program Co-Chair Inaugural Collaborative Perspectives on Addiction conference
2012 - 2013	Program Chair 2013 American Psychological Association / Division 50 convention
2005 - 2015	Member Finance Committee, Society of Addiction Psychology

University Service Activities

2021 - present	Co-Director, Cardiac Neuroscience Laboratory
	Rutgers University – New Brunswick
2024 2022	
2021 - 2022	Member, Faculty Search Committee (Assistant Professor/Tenure Track, Biomechanics)

	Department of Kinesiology and Health, Rutgers University – New Brunswick
2021 - 2022	Member, Comprehensive Exams Reassessment Committee (ad hoc) Kinesiology & Applied Physiology Graduate Program, Rutgers University – New Brunswick
2021 - 2022	Chair, Non-Tenure Track Faculty Reappointment Committee Department of Kinesiology and Health, Rutgers University – New Brunswick
2020 – present	Director, Undergraduate Honors in Research program Department of Kinesiology and Health, Rutgers University – New Brunswick
2019 – 2022	Member, Curriculum Committee Rutgers School of Arts and Science
2019 - 2020	Member, Faculty Search Committee (Open Rank/Tenure, Exercise Science) Department of Kinesiology and Health, Rutgers University – New Brunswick
2019	Member, Admissions Committee Robert Wood Johnson Medical School INSPIRE program (NIH K12)
2019	Panel Member, STEM Ambassador Program School of Environmental and Biological Sciences, Rutgers University – New Brunswick
2018 - present	Member, Personnel Committee Department of Kinesiology and Health, Rutgers University – New Brunswick
2018	Member, Faculty Search Committee (Open Rank/Tenure, Exercise & Aging) Department of Kinesiology and Health, Rutgers University – New Brunswick
2018	Grant Reviewer Rutgers School of Health Professions Seed Grant program
2016 - 2021	Co-Chair, Rutgers Alcohol and Other Drugs Innovative Initiative Committee Division of Student Health, Rutgers University – New Brunswick
2016-2018	Judge, Annual Student Poster Session Center of Alcohol Studies, Rutgers University – New Brunswick
2016 - 2017	Interim Director, Division of Education and Training Center of Alcohol Studies, Rutgers University – New Brunswick
2016	Member, Advancement and Promotion Committee Center of Alcohol Studies, Rutgers University – New Brunswick
2015 - present	Director, Athlete Health and Neuroscience Laboratory Rutgers University – New Brunswick
2014 - 2021	Associate Director, Cardiac Neuroscience Laboratory Rutgers University – New Brunswick

Symposium Presentations and Invited Talks

- 1. <u>Invited Speaker</u>. November 2022. *A drug is a drug, of course: Exploring the new world where medicines are drugs and drugs are medicine*. Frank H. Netter Medical School, Quinnipiac University, Psychiatry and Addiction Medicine Interest Groups.
- 2. <u>Workshop Panelist</u>. February 2022. Responding to peer review: A grant writing workshop for junior faculty. Institute for Health, Health Care Policy and Aging Research (Chair: T. Chung).
- 3. <u>Symposium Speaker</u>. April 2020*. *Quantifying the effects of binge drinking with cardiovascular biomarkers*. Buckman, J.F., Vaschillo, E., Vaschillo, B., & Bates, M.E. In: Mind-body-brain: quantifying harm to facilitate recovery (Chair: J. Price). Collaborative Perspectives on Addiction conference. San Diego, CA. *not presented due to COVID-19
- 4. <u>Symposium Speaker</u>. November 2019. *Brain changes to appetitive cues following resonance paced breathing*. In: Neuroscience Interest Group Symposium, "Neuroscience-informed cognitive interventions." (Co-chairs: Victoria Manning & Antonio Verdejo-Garcia). International Society of Addiction Medicine. Delhi, India.
- 5. <u>Workshop Speaker</u>. October 2019. *The context of stress for the body and behavior*. In: Brief Interventions for college and young adults strengthening effects and disentangling mechanisms of action to build personalized interventions for widespread uptake. (Organizer: Mariela Shirley, National Institute on Alcohol Abuse and Alcoholism, Division of Epidemiology and Prevention Research). Bethesda, MD.
- 6. <u>Workshop Speaker</u>. October 2019. *The context of campus culture for intervention uptake and implementation*. In: Brief interventions for college and young adults strengthening effects and disentangling mechanisms of action to build personalized interventions for widespread uptake. (Organizer: Mariela Shirley, National Institute on Alcohol Abuse and Alcoholism, Division of Epidemiology and Prevention Research). Bethesda, MD.
- 7. <u>Panelist</u>. October 2019. In: Brief interventions for college and young adults strengthening effects and disentangling mechanisms of action to build personalized interventions for widespread uptake. (Organizer: Mariela Shirley, National Institute on Alcohol Abuse and Alcoholism, Division of Epidemiology and Prevention Research). Bethesda, MD.
- 8. <u>Seminar Speaker</u>. September 2019. Applied physiology: understanding how drinking, sleeping, and stress during college affect long-term health. Rutgers Department of Kinesiology and Health Brown Bag Seminar. (Organizer: Marsha Bates). Piscataway, New Jersey.
- Presidential Address. August 2019. Stories of drug use that challenge our theories and practices. Society of Addiction Psychology (Division 50). Annual Convention of the American Psychological Association. Washington, DC.
- 10. <u>Panelist</u>. July 2019. In: Rutgers University 4-H STEM Ambassadors program. (Organizer: J. McDonnell, School of Environmental and Biological Sciences). New Brunswick, NJ.
- 11. <u>Symposium Chair</u>. April 2019. Introductory remarks. In: Grant-funded student research on biological markers of alcohol, tobacco, and other substance use. (Chair: Jennifer Buckman and Laura Lesnewich). Collaborative Perspectives on Addiction conference. Providence, RI.

- 12. <u>Panelist</u>. April 2019. In: Taking stock of advancing technology for the treatment nd prevention of alcohol use disorders. (Organizer: Anita Bechtholt, National Institute of Health, National Institute on Alcohol Abuse and Alcoholism, Division of Treatment and Recovery Research). Bethesda, MD.
- 13. <u>Discussant</u>. August 2018. In: Real-time and experimental methods to understand substance use processes and contexts. (Chair: Bettina Hoeppner). Annual Convention of the American Psychological Association. San Francisco, CA.
- 14. <u>Panelist</u>. August 2018. In: NIH R13-sponsored career development panel discussion: Get advice and feedback from experts in the field. Annual Convention of the American Psychological Association. San Francisco, CA.
- 15. <u>Workshop Speaker</u>. April 2018. *Grant writing fundamental*. In: Rutgers Center of Alcohol Studies Professional Seminar Series. Piscataway, NJ.
- 16. <u>Symposium Speaker</u>. March 2018. *From cognitive function to cardiovascular function, and back again*. Coauthor: M. Bates. In: Neurocognitive compromise with substance misuse: Might active interventions help? (Chair: Julianne Price). Collaborative Perspectives on Addiction conference. Tampa, FL.
- 17. <u>Speaker and Panelist</u>. June 2017. *Addiction psychology*. In: Integrating substance abuse information into forensic maltreatment evaluations. (Chair: Craig Springer). New Jersey Coordination Center Summit. Piscataway, NJ.
- 18. <u>Symposium Speaker</u>. August 2016. *Smartphone apps to measure and intervene in real-time physiological responses to triggers*. Co-authors: M. Bates & D. Eddie. In: Interactive alcohol research and clinical practice---mobile technology for every occasion. (Chair: Anita Bechtholt). Annual Convention of the American Psychological Association. Chicago, IL.
- 19. <u>Symposium Speaker</u>. June 2014. *Social support as an alternative process for initiating and maintaining positive behavior change*. Co-author: M. Bates. In: The role of social networks in recovery from alcohol use disorders: From neuroscience to prairie voles (Chair: Vivia McCutcheon). Research Society on Alcoholism Annual Meeting. Bellevue, WA.
- 20. <u>Speaker</u>. May 2014. *Open Access! (But at what cost?): a researcher's perspective*. (Chair: J. Ward). Annual Substance Abuse Librarians & Information Specialists Conference. New Brunswick, NJ.
- 21. <u>Lecture</u>. June 2013. *Changing marijuana use among student athletes*. Institute of Addiction Studies. New Brunswick, NJ.
- 22. <u>Symposium Speaker</u>. January 2013. *Marijuana use among NCAA athletes: how society and the law are changing the dialogue*. In: Social norms and legal trends: marijuana use among student- athletes. (Chair: Michael Miranda). National Collegiate Athletic Association (NCAA) Convention. Grapevine, TX.
- 23. <u>Seminar Speaker</u>. June 2012. *Drugs, alcohol, & athletes: what's happening what works.* In: Annual Middlesex County Prevention Education Summit. New Brunswick, NJ.
- 24. <u>Lecture</u>. June 2012. *Biological aspects of use: motivation to change*. Institute of Addiction Studies. New Brunswick, NJ.
- 25. <u>Seminar Speaker</u>. January 2008. *Correlates of volumetric differences in brain structures of children diagnosed with autism spectrum or bipolar disorder*. In: Institute for the Study of Child Development, University of Medicine & Dentistry of New Jersey, Brown Bag Research Series. New Brunswick, NJ.

Published Abstracts

- 1. Muzumdar, N., Jonna, V., Bates, M., & Buckman, J. (2022). Late Breaking: preliminary evaluation of the utility of an app-based slow breathing tool for assessing intervention compliance in real world settings. *Psychophysiology.* 59: S183.
- 2. Piersol, K., Vaschillo, E., Bates, M., Vaschillo, B., Muzumdar, N., Morgano, J. & Buckman, J. (2021). Changes among cardiovascular parameter intercorrelations in women following treatment for substance use disorders. *Psychophysiology*. 58: S48.
- 3. Leganes-Fonteneau, M., Bates, M., Vaschillo, E., & Buckman, J. (2021). Resonance breathing can improve interoceptive awareness. *Psychophysiology*. 58: S29.
- 4. Leganes-Fonteneau, M., Buckman, J.F., & Bates, M.E. (2021). An interoceptive basis of alcohol priming effects. *Alcoholism: Clinical and Experimental Research* 45: 258A.
- 5. Price, J.L., Uhouse, S.G., Todaro, S.M., Morgano, J., Vaschillo, E., Buckman, J.F., & Bates, M.E. (2021). Arousal modulation via resonance breathing decreases craving and improves mood in treatment-seeking women: a randomized clinical trial. *Alcoholism: Clinical and Experimental Research* 45: 165A.
- 6. deSouza, N., Gonzalez, C., Viagas, N., Buckman, J., & Esopenko, C. (2020). Intrinsic functional connectivity associated with mental flexibility and decision duration in athletes with and without a history of concussion. *Journal of Head Trauma Rehabilitation*. 35(2): E195-196.
- 7. Vaschillo, E., Vaschillo, B., Buckman, J., & Bates, M. (2019). New approach for brain stimulation. *Brain Stimulation*. 12(2), 393.
- 8. Leganes-Fonteneau, M., Buckman, J.F., & Bates, M.E. (2019). Alcohol administration influences the integration of physiological and behavioral responses towards emotional stimuli. *Alcoholism: Clinical and Experimental Research*. 43(S1), 54A.
- 9. Helton, S.G., Pawlak, A.P., Todaro, S.M., Morgano, J.A., Buckman, J.F., & Bates, M.E. (2019). Factors that predict client use of a technology-based paced breathing adjunct to substance use treatment as usual. *Alcoholism: Clinical and Experimental Research*. 43(S1), 80A.
- 10. Porfido, T., Brown, A., de Souza, N., Buckman, J., Fanning, B., & Esopenko, C. (2019). Differences in neck strength and symmetry dependent on sex, sport risk, and sport-related concussion history. *Brain Injury*, 33, 186-187.
- 11. Vaschillo, E., Vaschillo, B., Buckman, J.F., Muzumdar, N., & Bates, M.E. (2018). Why is it useful to estimate gain of each of the three baroreflex branches? *Psychophysiology*. 55(S1), S59.
- 12. Lesnewich, L.M., Ray, S., Helton, S.G., Gohel, S., Buckman, J.F., & Bates, M.E. (2018). Central executive network functional connectivity is associated with alcohol use behaviors in emerging adulthood." *Alcoholism: Clinical and Experimental Research*. 42(S1), 36A.
- 13. Porfido, T., Streifer, M., Brown, A., Anderson, E.Z., Buckman, J., & Esopenko, C., (2018). Assessing the relationship between neck strength and concussion risk in university athletes. *Journal of Head Trauma Rehabilitation*, 33(3), E67-E118.
- 14. Rosen, R.L., Holzhauer, C.G., Epstein, E.E., Buckman, J.F., McCrady, B.S., Gaba, A., & Cook, S. (2017). Associations of genetic variation in GABRA2 with alcohol use in a treatment seeking sample of women with alcohol use disorder. *Alcoholism: Clinical and Experimental Research*. 41(S1), 137A.
- 15. Helton, S.G., Banu, L.M., Peyser, D., Buckman, J.F., & Bates, M.E. (2017). Acute craving response to alcohol cues in fMRI environment. *Alcoholism: Clinical and Experimental Research*, 41(S1), 238A.

- 16. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Singh, G., & Bates, M.E. (2016). Sensitive characteristics of the heart rate variability. *Psychophysiology*. 53(S1), S77.
- 17. Vaschillo, E., Buckman, J.F., Peyser, D., Heiss, S., Barnas, P., Banu, L., Puhalla, A., Vaschillo, B., Eddie, D., Ray, S., Hanson, S., Hanson, C., Biswal, B., & Bates, M.E. (2016). Resonance breathing affects hemodynamic oscillations in the brain at 0.1 Hz. *Biological Psychology*, 118, 76.
- 18. Vaschillo, M., Patel, R., Bates, M.E., & Buckman, J.F. (2016). Heart rate variability biofeedback benefits are associated with baroreflex gain. *Applied Psychophysiology and Bionfeedback*, 41, 444.
- 19. Banu, L.M., Bates, M.E., & Buckman, J.F. (2016). Greater BOLD reactivity to personalized alcohol cues in non-treatment seeking individuals with an alcohol use disorder. *Alcoholism: Clinical and Experimental Research*, 40(1), 213A.
- 20. Bates, M.E., Rothschild, L.F., Conway, F., Monaco, R., Ray, A.E., Barnas P., Hoge, L. & Buckman, J.F. (2015). Identifying risk for eating disorders in student athletes entering college. *The Journal of Behavioral Addictions*, 4(sup1), 47-48.
- 21. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Bates, M.E. (2015). Sigh as a trigger for the baroreflex protective mechanism. *Biological Psychology*, 104, 160.
- 22. Patel, R., Vaschillo, E.G., Vaschillo, B., Buckman, J.F., & Bates, M.E. (2015). Emotional modulation of cardiovascular function. *Psychophysiology*, 52(S1), S115.
- 23. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., & Bates, M.E. (2015). Early cardiovascular dysregulation in young healthy binge drinkers. *Psychophysiology*, 52(S1), S115.
- 24. Vaschillo, E., Vaschillo, B., Buckman, J., Heiss, S., & Bates, M. (2014). Sigh to restore respiratory variability: Proposed mechanism. *Biological Psychology*, 118, 76.
- 25. Buckman, J.F. & Bates, M.E. (2014). Social support as an alternative process for initiating and maintain positive behavioral change. *Alcoholism: Clinical and Experimental Research*, 38S, 323A.
- 26. Alderman, B., Olson, R., Selby, E.A., Bates, M.E., Buckman, J.F., & Shors, T.J. (2014). Rumination in major depressive disorder is associated with impairments in ERP correlates of inhibitory cognitive control. *Psychophysiology*, 51(S1), S77.
- 27. Eddie, D., Bates, M.E., Buckman, J.F., & Voelbel, G. T. (2014). The mean and the individual: A person-centered approach to neuropsychological recovery in men and women with substance use disorders, *Alcohol*, 48, 190.
- 28. Udo, T., Buckman, J.F., Vaschillo, E., Vaschillo, B., & Bates, M.E. (2013). Does weight status moderate risk for alcohol use disorders in college drinkers? *Alcoholism: Clinical and Experimental Research*, 37(2), 101A.
- 29. Nguyen, T.T., Buckman, J.F., Ray, S., & Bates, M.E. (2013). Alcohol intoxication does not interrupt emotional facilitation of explicit or implicit memory. *Alcoholism: Clinical and Experimental Research*. 37(2), 30A.
- 30. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Nguyen, T., Puhalla, A., Wille, R., & Bates, M.E. (2013). Reaction of cardiovascular functions to rhythmical stimulation in the very low frequency range (0.01 0.05 Hz). *Psychophysiology*, *50*(1), S116.
- 31. Vaschillo, B., Vaschillo, E.G., Buckman, J.F., Nguyen, T., & Bates, M.E. (2012). Testing cardiovascular functions regulation by triggered 0.1 Hz resonance. *Psychophysiology*, 49(1), S64.

- 32. Lehrer, P., Buckman, J., Vaschillo, E., Vaschillo, B., Udo, T., Bates, M., & Mun E-Y. (2012). Dysfunctional breathing predicts negative emotion and substance abuse problems. *Applied Psychophysiology and Biofeedback* 37, 299.
- 33. Bates, M.E., Buckman, J., Vaschillo, E., Mun, E.Y., Vaschillo, B. & Udo, T. (2010). Family history, vulnerability mechanisms, and emotional dysregulation. *Alcoholism: Clinical and Experimental Research*, 34(6), 84A.
- 34. Lehrer, P., Vaschillo, E., Vaschillo, B., Udo, T., Mun, E-Y., Ray, S., Buckman, J., Pandina, R., & Bates, M.E. (2010). Psychological correlates of respiratory responses and their relationship to anxiety and drug/alcohol risk. *Biological Psychology*, 85(3), 515.
- 35. Vaschillo, E. G., Vaschillo, B., Buckman, J. F., Pandina, R. J., & Bates, M. E. (2010). Measurement of vascular tone baroreflex gain. *Psychophysiology*, *47*(1), 105.
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- 37. Hilton, N.V., Morgan, T.J., Buckman, J.F., McCrady, B.S., & Pandina, R.J. (2008). The influence of type of addiction treatment on post-treatment social networks of women with addiction. *Alcoholism: Clinical and Experimental Research*, 32 (S6), 195A.
- 38. Hilton, N.V., Morgan, T.J., McCrady, B.S., & Buckman, J.F. (2007). The influence of social factors on women with addiction: support for treatment and substance use at treatment entry. *Alcoholism: Clinical and Experimental Research*, 31(S6), 231A.
- 39. Voelbel, G., Bates, M., Buckman, J., Pandina, G., & Hendren, R. (2005). Paradoxical effects of familial alcoholism on amygdala volumes in children with and without psychiatric diagnoses. *Archives of Clinical Neuropsychology*, 20(7), 820.
- 40. Buckman, J.F., Bates, M.E., Voelbel, G.T., Pandina, G., & Hendren, R.L. (2006). Familial alcoholism, drug abuse and depression affect brain structure volumes in children. *Alcoholism: Clinical and Experimental Research*, 30(S6), 190.
- 41. Buckman, J.F., Bates, M.E. & Cisler, R.A. (2005). Importance of social networks to cognitively impaired clients. *Alcoholism: Clinical and Experimental Research, 29,* 32A.
- 42. Voelbel, G., Bates, M., Buckman, J., Pandina, G., & Hendren, R. (2005). Paradoxical effects of familial alcoholism on amygdala volumes in children with and without psychiatric diagnoses. *Archives of Clinical Neuropsychology*, 20, 820.
- 43. Han, Y.Y., Buckman, J.F., Brocard, J.B., Kress, G.J., & Reynolds, I.J. (2001). Mitochondrial complex IV inhibition reduces mitochondrial calcium uptake, mitochondrial membrane potential, and ATP content in a cell culture model of excitotoxicity. *Critical Care Medicine*, 29 (S12), A122.
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- 45. Han, Y.Y., Buckman, J.F., Brocard, J.B., Kress, G.J., & Reynolds, I.J.(2001). Effects of mitochondrial dysfunction in a cell culture model of excitotoxicity. *Journal of Neurotrauma*. 18. 1179.
- 46. Reynolds, I.J., Buckman, J.F., Brocard, J., & Scanlon, J.M. (1999). Mitochondrial mechanisms and neuronal injury: Novel targets for neuroprotection? *Fundamental & Clinical Pharmacology*, 13(S1), 24s.

Conference Presentations

- 1. <u>Poster Presentation</u>. July 2022. *Examing the effects of cannabis use on sleep using daily diary data*. Muzumdar, N., Buckman, J.F., Sokolovsky, A., Pawlak, A., Spaeth, A., White, H., & Jackson, K. Research Society on Marijuana annual meeting. Boston, MA.
- 2. <u>Poster Presentation</u>. June 2022. *Diminishing Returns of Alcohol in the Tension Reduction Theory.* J. L. Price, Bates. M.E., Vaschillo, E., Piersol, K., Muzumdar, N. & Buckman, J.F. Research Society on Alcoholism Annual Meeting. Orlando, FL.
- 3. <u>Poster Presentation</u>. June 2022. *Innovative approach utilizing opiate receptor pharmacotherapies as a model to develop safe GABAA receptor positive allosteric modulators for alcohol use disorder*. Carry, E., Vasilatis, A., Buckman, J., Bello, N., Roberge, J. & Simon, J. Research Society on Alcoholism Annual Meeting. Orlando, FL.
- 4. <u>Poster Presentation</u>. June 2022. *Mapping the bodily effects of alcohol intoxication*. Leganes-Fonteneau, M., Bates, M. E. & Buckman, J.F. Research Society on Alcoholism Annual Meeting. Orlando, FL.
- 5. <u>Poster Presentation</u>. June 2022. *Examining past 30-day alcohol use relative to reproductive characteristics in college women*. Piersol, K., Bates, M. E., Muzumdar, N., & Buckman, J.F. Research Society on Alcoholism Annual Meeting. Orlando, FL.
- 6. <u>Poster Presentation</u>. June 2022. *Use of a resonance breathing app increases heart rate variability in moments of heightened risk among women in early recovery from a substance use disorder.* Muzumdar, N., Bates, M. E., Jonna, V., Vaschillo, E., Vaschillo, B., Morgano, J. & Buckman, J.F. Research Society on Alcoholism Annual Meeting. Orlando, FL.
- 7. <u>Poster Presentation.</u> April 2022. Price, J.L., Buckman, J. & Bates, M. *Identifying individuals best suited for neurocardiac interventions for substance use disorder*. Annual Center of Alcohol & Substance Use Studies Poster Session, Piscataway, NJ.
- 8. <u>Poster Presentation.</u> April 2022. *The baroreflex response to alcohol cues and predisposing factors for alcohol use disorder*. Shrem, S., Price, J.L., Bates, M., Vaschillo, E., Vaschillo, B., & Buckman, J.F. Annual Center of Alcohol & Substance Use Studies Poster Session, Piscataway, NJ.
- 9. <u>Poster Presentation.</u> A preliminary look at differences in self-reported alcohol use and mental health symptoms between South Asian and White college students. Bhatnagar, A., Piersol, K., Price, J., Muzumdar, N., & Buckman, J.F. Annual Center of Alcohol & Substance Use Studies Poster Session, Piscataway, NJ.
- 10. <u>Poster Presentation</u>. June 2022. *Mapping the effects of alcohol on the body*. Shankar, N., Zhange, M., Bates, M. E., Buckman, J.F. & Leganes-Fonteneau, M. Annual Center of Alcohol & Substance Use Studies Poster Session, Piscataway, NJ.
- 11. <u>Poster presentation.</u> April 2022. *Understanding Real-World HRV Data Collection in an Addiction Sample.* Jonna, V., Muzumdar, N., Buckman, J.F. & Bates, M.E. Annual Center of Alcohol & Substance Use Studies Poster Session, Piscataway, NJ.
- 12. <u>Poster presentation.</u> April 2022. Examining cardiovascular system changes from pre- and post-treatment in a sample of parenting women with substance use disorder. Piersol, K.L., Bates, M.E., Pawlak, A., Vaschillo, E., & Buckman, J.F. Rutgers Graduate Research in Interdisciplinary Biosciences Conference. New Brunswick, NJ.

- 13. <u>Poster Presentation</u>. October 2021. Ladak, Z., Price, J., Vaschillo, E., Vaschillo, B., Bates, M. & Buckman, J. Distinct heart rate variability subregions related to binge drinking and family history of alcohol use disorder. Annual Center of Alcohol & Substance Use Studies Poster Session, Piscataway, NJ.
- 14. <u>Poster Presentation.</u> March 2022. Price, J., Bates, M., Uhouse, S., Morgano, J., Todaro, S., Pawlak, A., Vaschillo, E., Vaschillo, B., & Buckman, J. *Identifying individuals best suited for neurocardiac interventions in the treatment of substance use.* Collaborative Perspectives on Addiction conference. Portland, OR.
- 15. <u>Poster Presentation.</u> March 2022. Muzumdar, N., Spaeth, A., Buckman, J., Pawlak, A., White, H., & Jackson, K. *Stress complicates the relationship between alcohol, cannabis, and sleep.* Collaborative Perspectives on Addiction conference. Portland, OR.
- 16. <u>Poster Presentation.</u> March 2022. Piersol, K., Bates, M., Pawlak, A., Vaschillo, E. & Buckman, J. *Cardiovascular system changes in a sample of women receiving treatment for substance use disorder.* Collaborative Perspectives on Addiction conference. Portland, OR.
- 17. <u>Symposium Presentation.</u> March 2022. Price, J.L., Buckman, J. & Bates, M. *Identifying individuals best suited for neurocardiac interventions for substance use disorder.* In: Autonomic vulnerabilities for substance use relapse: risk identification and mitigation (Chair: D. Eddie). Collaborative Perspectives on Addiction conference. Portland, OR.
- 18. <u>Symposium Presentation [co-author].</u> March 2022. Leganes-Fonteneau, M., Bates, M., & Buckman, J. *Interoceptive Basis of alcohol-related behaviors.* In: Novel and Underused Approaches in Addiction Psychology II (Chair: K. Joyner). Collaborative Perspectives on Addiction conference. Portland, OR.
- 19. <u>Poster Presentation.</u> February 2022. Best, L.M., Hendershot, C.S., Buckman, J.F., Jagasar, S., McPhee, M., Muzumdar, N., Tyndale, R.N., Houle, S., Logan, R., Kish, S.J., Le Foll, B., & Boileau, I. *Endocannabinoid metabolism as a predictor of risk for alcohol use disorder: a PET imaging study with [C-11]CURB in heavy drinking youth.* Cannabinoids in Clinical Practice annual conference. Toronto, CA.
- 20. <u>Symposium Presentation [co-author].</u> November 2021. *Individual Features of Brain Body Feedback: Why we must reframe our perceptions*. Price, J.L., Buckman, J.F., & Bates, M.E. Laureate Institute for Brain Research Interoception Symposium. Tulsa, OK.
- 21. <u>Poster Presentation</u>. October 2021. Ladak, Z., Price, J., Vaschillo, E., Vaschillo, B., Bates, M. & Buckman, J. *Distinct heart rate variability subregions related to binge drinking and family history of alcohol use disorder*. Imamia Medics International conference. Atlanta, GA.
- 22. <u>Poster Presentation</u>. October 2021. Price, J., Bates, M., Pawlak, A., Vaschillo, E., Vaschillo, B., & Buckman, J. *Dysregulation of the respiratory sinus arrythmia associated with greater utility of an app-based breathing intervention among women with substance use disorder*. Pioneers in Endocrinology Workshop. New Brunswick, NJ.
- 23. <u>Poster Presentation</u>. October 2021. Piersol, K., Vaschillo, E., Bates, M., Vaschillo, B., Muzumdar, N., Morgano, J. & Buckman, J. *Cardiovascular parameter interdependence changes in women following treatment for substance use disorders*. Society for Psychophysiological Research. *Virtual due to COVID-19.
- 24. <u>Poster Presentation</u>. June 2021. Leganes-Fonteneau, M., Buckman, J. & Bates, M. *Interoceptive Basis of alcohol priming effects*. Research Society on Alcoholism Annual Meeting. *Virtual due to COVID-19.
- 25. <u>Poster Presentation</u>. June 2021. *Arousal modulation via resonance breathing decreases craving and improves mood in treatment-seeking women: a randomized clinical trial*. J. L. Price, Uhouse, S.G., Todaro, S.M., Morgano, J., Vaschillo, E., Buckman, J.F. & Bates, M. E. Research Society on Alcoholism Annual Meeting. *Virtual due to COVID-19.

- 26. <u>Poster Presentation</u>. March 2021. *Gains in Cognitive Recovery Following Resonance Breath Training*. Price. J.L., Pawlak, A.P., Uhouse, S.G., Todaro, S.M., Morgano, J., Vaschillo, B., Vaschillo, E., Buckman, J.F., & Bates, M.E. Collaborative Perspectives on Addiction conference. * Virtual due to COVID-19.
- 27. Oral Presentation [co-author]. November 2020. Piersol KL, Achenbach A, Vaschillo E, Muzumdar N, Vaschillo B, Bates ME, Buckman JF. *The College Pile-Up Study: Examining the cumulative impact of typical college behaviors.*. Rutgers Center for Human Nutrition, Exercise, and Metabolism (NExT) Annual Meeting; 2020 Nov 4; New Brunswick, NJ.
- 28. <u>Poster Presentation.</u> October 2020. *Eight-week resonance breathing app useage improves cardiovascular functioning in community-dwelling women with alcohol and substance use disorder.* Price, J.L., Pawlak, A., Vaschillo, E., Morgano, J., Todaro, S., Uhouse, S.G., Vaschillo, B., Bates, M.E. & Buckman, J.F. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 29. <u>Poster Presentation.</u> October 2020. *The effect of substance use treatment activity utilization on change in risk and protective factors across treatment*. Todaro, S. & Buckman, J.F. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 30. <u>Poster Presentation.</u> October 2020. *Alcohol use, cannabis use, and physical activity in a cohort of college freshmen*. Achenbach, A.G., Piersol, K.L., Vaschillo, E., Muzumdar, N, Vaschillo, B., Bates, M.E., & Buckman, J.F. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 31. <u>Poster Presentation.</u> October 2020. *Regular cannabis use may not significantly alter cardiovascular physiology in young adults.* Jonna, V., Muzumdar, N., Buckman, J.F. & Bates, M.E., Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 32. <u>Poster Presentation.</u> October 2020. *Heart rate variability in persons taking psychotropic medications: a brief narrative review.* Turan, M.S., Uhouse, S.G., Yeong, C., Buckman, J.F. & Bates, M.E., Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 33. <u>Poster Presentation.</u> October 2020. *Family history of alcohol use disorder affects heart rate variability structure in young healthy people*. Ladak, Z., Price, J.L., Vaschillo, E., Vaschillo, B., Bates, M.E., & Buckman, J.F. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 34. <u>Poster Presentation.</u> October 2020. *Correlates of alcohol effects on interoception*. Leganes-Fonteneau, M., Buckman, J.F., Islam, S., & Bates, M.E. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 35. <u>Poster Presentation</u>. August 2020*. *Tracking cannabis and alcohol use during college transitions:*Prevalences, sex differences, and stress relief. Muzumdar, N., Vaschillo, E., Vaschillo, B., Jacko, A.L., Bates, M., & Buckman, J. Annual Convention of the American Psychological Association. Washington, DC. *not presented due to COVID-19
- 36. <u>Poster Presentation</u>. July 2020*. *Interoceptive correlates of acute alcohol administration*. Leganes-Fonteneau, M., Buckman, J.F., Duka, T., & Bates, M.E. British Association for Psychopharmacology Annual Meeting. London, UK. *not presented due to COVID-19
- 37. <u>Poster Presentation</u>. June 2020*. *Subjective alcohol effects modulate the influence of interoceptive signals on cognitive biases*. Leganes-Fonteneau, M., Buckman, J.F., Pawlak, A., & Bates, M.E. Research Society on Alcoholism Annual Meeting. New Orleans, LA. *not presented due to COVID-19
- 38. <u>Poster Presentation</u>. June 2020*. *Relationships between sleep and alcohol use in college students*. Spaeth, A.M., Glavin, G., Bates, M.E. & Buckman, J.F Research Society on Alcoholism Annual Meeting. New Orleans, LA. *not presented due to COVID-19

- 39. <u>Poster Presentation</u>. June 2020*. *Concurrent cardiovascular and neural responses to nature and alcohol cues*. Muzumdar, N., Lesnewich, L., Buckman, J.F., Gohel, S., & Bates, M.E. Research Society on Alcoholism Annual Meeting. New Orleans, LA. *not presented due to COVID-19
- 40. <u>Symposium Presentation</u>. April 2020*. *Quantifying the effects of binge drinking with cardiovascular biomarkers*. Buckman, J.F., Vaschillo, E., Vaschillo, B., & Bates, M.E. In: Mind-body-brain: quantifying harm to facilitate recovery (Chair: J. Price). Collaborative Perspectives on Addiction conference. San Diego, CA. *not presented due to COVID-19
- 41. <u>Symposium Presentation [Co-Author]</u>. April 2020*. *Natural and assisted cardiovascular gains following addiction treatment: Relations to recovery and decreased craving*. Bates, M.E., Eddie, E., Buckman, J.F., Epstein, E.E., & Alayan, N. In: Mind-body-brain: quantifying harm to facilitate recovery (Chair: J. Price). Collaborative Perspectives on Addiction conference. San Diego, CA. *not presented due to COVID-19
- 42. <u>Poster Presentation</u>. March 2020. *Daily lifestyle data suggests early surges in first-year college drinking*. Muzumdar, N., Jacko, A., Vaschillo, E., Vaschillo, B., Bates, M., & Buckman, J. Annual Meeting of the American Psychopathological Association. New York, NY.
- 43. <u>Poster Presentation</u>. March 2020. *Individual and contextual differences in use of a breathing-based iPhone app intervention in women with SUD*. Todaro, S., Helton, S.G., Morgano, J.M., Bates, M.E, & Buckman, J.F. Annual Meeting of the American Psychopathological Association. New York, NY.
- 44. <u>Poster Presentation</u>. February 2020. *Increased intrinsic functional connectivity associated with mental flexibility and decision duration in athletes with and without a history of concussion*. deSouza, N., Gonzalez, C.S., Viagas, N., Buckman, J., & Esopenko, C. North American Brain Injury Society Annual Conference. New Orleans, LA.
- 45. <u>Symposium Presentation [Co-Author]</u>. October 2019. *Using rhythmical sighing to test mechanisms of regulation in the baroreflex system.* Vaschillo, E., Vaschillo, B., & Buckman, J.F. In: Symposium 2 (Chair: T. Janssens). Annual Meeting of the International Society of the Advancement of Respiratory Psychophysiology. Vevey, Switzerland.
- 46. <u>Poster Presentation.</u> July 2019. *Comparison of neuropsychological test performance in Division I college athletes using C3 Logix*. Saalfield, J. & Buckman, J.F. Annual Institutional Research and Academic Career Development Award (IRACDA) Conference. Ann Arbor, MI.
- 47. <u>Poster Presentation.</u> June 2019. *Alcohol administration influences the integration of physiological and behavioral responses towards emotional stimuli.* Leganes-Fonteneau, M., Buckman, J.F., & Bates, M.E. Research Society on Alcoholism Annual Meeting. Minneapolis, MN.
- 48. <u>Poster Presentation.</u> June 2019. *Factors that predict client use of a technology-based paced breathing adjunct to substance use treatment as usual.* Helton, S.G., Pawlak, A.P., Todaro, S.M., Morgano, J.A., Buckman, J.F., & Bates, M.E. Research Society on Alcoholism Annual Meeting. Minneapolis, MN.
- 49. <u>Poster Presentation.</u> May 2019. *Collaborative HRV research project: public health initiative*. Jacko, A., Todaro, S., Buckman, J.F., & Bates, M.E. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 50. <u>Poster Presentation.</u> May 2019. *Difficulties in emotion regulation and drinking behaviors*. Brahmachari, S., Helton, S.G., Todaro, S., Buckman, J.F., & Bates, M.E. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.

- 51. <u>Poster Presentation.</u> May 2019. *Encoding self-reported situations: the use of an iPhone app-based breathing intervention in women with SUD.* Todaro, S., Morgano, J., Bates, M.E. & Buckman, J.F. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 52. <u>Poster Presentation.</u> May 2019. *Examining a modified marijuana craving questionnaire and its relationship to marijuana related constructs*. Mayyagari, M., Helton, S.G., Buckman, J.F. & Bates, M.E. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 53. <u>Poster Presentation.</u> May 2019. *Alcohol administration influences the integration of physiology and memory biases*. Leganes-Fonteneau, M., Pawlak, A., Buckman, J.F. & Bates, M.E. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 54. <u>Symposium Chair</u>. April 2019. *Introductory remarks*. In: Grant-funded student research on biological markers of alcohol, tobacco, and other substance use. (Chair: Jennifer Buckman and Laura Lesnewich). Collaborative Perspectives on Addiction conference. Providence, RI.
- 55. <u>Poster Presentation.</u> April 2019. *Sleep, exercise, and perceived stress patterns among marijuana-smoking and alcohol-dependent groups.* Patel, R., Lesnewich, L.M., Buckman, J.F., & Bates, M.E. Collaborative Perspectives on Addiction conference. Providence, RI.
- 56. <u>Poster Presentation.</u> April 2019. *Cognitive performance predicts use of a paced breathing iPhone app in women with SUDs.* Helton, S.G., Todaro, S.M., Lesnewich, L.M., Morgano, J., Buckman, J.F., & Bates, M.E. Collaborative Perspectives on Addiction conference. Providence, RI.
- 57. <u>Poster Presentation.</u> April 2019. *Experiencing medical problems promotes the use of an iPhone app-based breathing intervention*. Todaro, S.M., Helton, S.G., Morgano J., Lesnewich, L.M., Bates, M.E., & Buckman, J.F. Collaborative Perspectives on Addiction conference. Providence, RI.
- 58. Symposium Speaker. March 2019. The Intersection of intentional and automatic control systems: measuring behavior change within individuals across systems. In: The Individual versus the Average: Revisiting Brain, Mind, and Body Mechanisms of Behavior Change in Addiction Science. (Chair: Marsha Bates). International Convention of Psychological Science conference. Paris, France.
- 59. <u>Poster Presentation</u>. February 2019. *New approach for brain stimulation*. Vaschillo, E., Vaschillo, B., Buckman, J., & Bates, M. International Brain Stimulation Conference. Vancouver, Canada.
- 60. <u>Poster Presentation</u>. November 2018. *Altered resting-state functional connectivity in collegiate athletes with episodic binge drinking*. de Souza, N., Gohel, S., Buckman, J.F., Viagas, N., Porfido, T., & Esopenko, C. Annual Brain Health Institute Symposium. Murray Hill, NJ.
- 61. <u>Poster Presentation.</u> November 2018. *Mindfulness and proposed neural biomarkers of perceived stress in depression: a resting state fMRI study.* Lesnewich, L.M., Helton, S.G., Gohel, S., Buckman, J.F., & Bates, M.E. Annual Convention of the Association for Behavioral and Cognitive Therapies. Washington, DC.
- 62. <u>Poster Presentation.</u> November 2018. *Resting-state functional connectivity of three neural networks is related to depression symptom severity, rumination, and emotion dysregulation.* elton, S.G., Lesnewich, L.M., Gohel, S., Buckman, J.F., & Bates, M.E. Annual Convention of the Association for Behavioral and Cognitive Therapies. Washington, DC.
- 63. Symposium Presentation [Co-Author]. November 2018. Paced breathing as a neuroscience-informed intervention for addiction medicine and Health: Individualized, yet broadly accessible. Bates, ME, Buckman, JF, Vaschillo E & the Cardiac Neuroscience Laboratory In: Neurointervention2 Symposium. International Collaborative Network on Neuroscience-informed Non-Pharmacologic Interventions for Addiction

- Medicine: From Shared Protocols to Multi National Clinical Trials. Annual Meeting of the International Society for Addiction Medicine. Busan, South Korea.
- 64. <u>Symposium Presentation [Co-Author]</u>. July 2018. *Assessment of neck strength to differentiate sex and concussion history*. Esopenko, C., Tara Porfido, T., Streifer, M., Brown, A., Anderson, E.Z., & Buckman, J. Big 10/lvy League TBI Summit. Philadelphia, PA.
- 65. <u>Poster Presentation.</u> July 2018. *Comprehensive assessment of neck strength to differentiate sex and concussion history.* Brown, A., Porfido, T., Streifer, M., Anderson, E. A., Buckman, J., & Esopenko, C. A. Big 10/lvy League TBI Summit. Philadelphia, PA.
- 66. <u>Symposium Presentation [Co-Author]</u>. June 2018. *Cardiovascular system participation in alcohol-associated neurobehavioral dysregulation.* Bates, M.E. & Buckman, J.F. Research Society on Alcoholism Satellite Meeting [Mechanisms of Behavior Change]. San Diego, CA.
- 67. <u>Poster Presentation</u>. May 2018. *The effects of recent marijuana use on alcohol use behavior*. Tschoe, J., Menon, V., Todaro, S., Lesnewich, L., Buckman, J.F., & Bates, M.E. Annual Meeting at the Rutgers Department of Psychiatry. Piscataway, NJ.
- 68. <u>Poster Presentation</u>. May 2018. *Triggers for substance use influence use of an iPhone app intervention.* Todaro, S., Morgano, J., Conway, F., Buckman, J.F., & Bates, M.E. Annual Meeting at the Rutgers Department of Psychiatry. Piscataway, NJ.
- 69. <u>Poster Presentation.</u> March 2018. *Functional neural connectivity as an emerging quantitative phenotype in individuals with alcohol use disorder.* Helton, S.G., Lesnewich, L.M., Gohel, S., Buckman, J.F., & Bates, M.E. Collaborative Perspectives on Addiction conference. Tampa, FL.
- 70. <u>Poster Presentation.</u> March 2018. *Assessing the relationship between neck strength and concussion risk in university athletes.* Porfido, T., Streifer, M., Brown, A., Zambo Anderson, E., Buckman, J., & Esopenko, C. North American Brain Injury Society Annual Conference. Houston, TX.
- 71. <u>Invited Presentation [Co-Author]</u>. December 2017. *Paced breathing changes neural reactivity to alcohol cues*. Bates, M.E., Buckman, J.F., Banu, L. & Helton, S.G. In: Tracking and Manipulating Drug-Cue Reactivity: An Interventional Target for Relapse Prevention in Substance Use Disorders (Chairs: R. Goldstein & M.Parvaz). Annual Meeting of the American College of Neuropsychopharmacology. Palm Springs, CA.
- 72. <u>Workshop Speaker.</u> November 2017. *Addiction as a brain disease.* In: Train the Trainer: The CAPTAIN Program (Certificate for Advanced Police Training on Addiction Interventions). Piscataway, NJ.
- 73. <u>Workshop Presenter.</u> October 2017. *Data and evaluation in addiction treatment*. The Measurement of Success: Building an Infrastructure to Understand Change. Piscataway, NJ.
- 74. <u>Poster Presentation.</u> May 2017. *Tracking treatment outcomes: planning a program evaluation of a private substance abuse treatment center.* Todaro, S., Conway, F., & Buckman, J.F. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 75. <u>Poster Presentation</u>. May 2017. *In-the-moment craving to alcohol cues in an fMRI environment*. Helton, S.G., Banu, L.M., Peyser, D., Buckman, J.F & Bates, M.E. Robert Wood Johnson Medical School Annual Cardiology Day, New Brunswick, NJ.
- 76. <u>Poster Presentation</u>. May 2017. *Evaluation of arterial elasticity through heart rate variability.* Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Singh, G., & Bates, M.E. Annual Meeting at the Rutgers Department of Psychiatry. Piscataway, NJ.

- 77. <u>Poster Presentation</u>. May 2017. *Social networks that matter: a person-centered approach to understanding social networks and alcohol use treatment outcomes*. Peyser, D., Buckman, J.F., & Bates, M.E. Annual Meeting at the Rutgers Department of Psychiatry. Piscataway, NJ.
- 78. <u>Symposium Speaker</u>. March 2017. *HRV as a mechanism of change: Linking brain and behavior*. In: Heart rate variability as a dynamic, real-time indicator of active brain and behavior mechanisms. (Chair: Jennifer Buckman). Collaborative Perspectives on Addiction conference. Albuquerque, NM.
- 79. <u>Poster Presentation.</u> March 2017. *Paced breathing changes neural reactivity to alcohol cues: an fMRI study.* Banu, L., Peyser, D., Helton, S.G., Ray, S., Buckman, J.F. & Bates, M.E. Collaborative Perspectives on Addiction conference, Albuquerque, NM.
- 80. <u>Poster Presentation.</u> March 2017. *Substance use and externalizing problems among young men.* White, H., Conway, F., Buckman, J.F. & Loeber, R. Collaborative Perspectives on Addiction conference, Albuquerque, NM.
- 81. <u>Poster Presentation.</u> October 2016. *Social networks that matter: a person-centered approach to understanding social networks and alcohol use treatment outcomes.* Peyser, D., Buckman, J.F., & Bates, M.E. Annual Convention of the Association for Behavioral and Cognitive Therapies (ABCT), New York, NY.
- 82. <u>Poster Presentation</u>. October 2016. *The "sigh" as a tool to reveal cumulative effects of alcohol on vascular tone regulation*. Vaschillo, E., Vaschillo, B., Buckman, J.F., Singh, G., & Bates M.E. Annual Meeting of the International Society of the Advancement of Respiratory Psychophysiology. Seattle, WA.
- 83. <u>Poster Presentation</u>. May 2016. *Do as I say, not as I do: A unique social support network among women, but not men, seeking treatment for alcohol and drug use disorders*. Peyser, D., Buckman, J.F., Banu, L.M., & Bates, M.E. College on Problems of Drug Dependence. Palm Springs, CA.
- 84. <u>Poster Presentation</u>. May 2016. *Investigation of heart rate variability biofeedback mechanisms*. Vaschillo, M., Patel, R., Buckman, J.F., & Bates, M.E. University of Washington 19th Annual Undergraduate Research Symposium, Seattle, WA.
- 85. <u>Poster Presentation</u>. April 2016. A heart rate variability parameter as a biomarker of cardiovascular dysregulation associated with binge drinking. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Singh, G., & Bates, M.E. Annual Meeting of the Department of Psychiatry, Robert Wood Johnson Medical School, New Brunswick, NJ.
- 86. <u>Poster Presentation</u>. April 2016. *Sex differences in drinking outcomes vary by type of social support networks*. Peyser, D., Buckman, J.F., & Bates, M.E. Society of Behavioral Medicine. Washington, DC.
- 87. <u>Poster Presentation</u>. March 2016. *Creating profiles of alcohol use and aggressive behavior in college athletes*. Conway, F., Monaco, R., Womack, J., & Buckman, J.F. Collaborative Perspectives on Addiction conference. San Diego, CA.
- 88. <u>Poster Presentation</u>. March 2016. *Relationships between alcohol use, depression, and neurocardiac functioning*. Banu, L., Buckman, J., Olson, R., Brush, C., Eddie, D., Peyser, D., Bates, M., Shors, T., & Alderman, B. Collaborative Perspectives on Addiction conference. San Diego, CA.
- 89. <u>Symposium Presentation [Co-Author]</u>. February 2016. *Cognitive remediation and different trajectories of cognitive recovery in persons with alcohol use disorders*. Bates, M.E. & Buckman, J.F. In: Neuropsychology and neuroimaging in alcohol use disorders: A better understanding for a better treatment. [Chair: Anne Lise Pitel]. Annual Meeting of the International Neuropsychology Society, Boston, MA.

- 90. <u>Poster Presentation</u>. September 2015. *Marijuana cue reactivity in heavy marijuana users and controls: An fMRI study using an event-related block design*. Banu, L.M., Peyser, D., Buckman, J.F., Ray, S., & Bates, M.E. Pioneers in Endocrinology Workshop. New Brunswick, NJ.
- 91. <u>Poster Presentation</u>. September 2015. *Heart rate variability biofeedback benefits are associated with baroreflex gain*. Vaschillo, M., Patel, R., Buckman, J.F., & Bates, M.E. Pioneers in Endocrinology Workshop. New Brunswick, NJ.
- 92. <u>Poster Presentation</u>. May 2015. *Comorbid psychopathology in individuals with substance use disorders is associated with quality of social support*. Peyser, D., Heiss, S., Buckman, J.F., & Bates, M.E. Annual Center of Alcohol Studies Poster Session, Piscataway, NJ.
- 93. <u>Poster Presentation</u>. May 2015. *Early cardiovascular dysregulation in young healthy binge drinkers*. Vaschillo, E., Vaschillo, B., Buckman, J. F., Heiss, S., Francisco, R., & Bates, M.E. Annual Center of Alcohol Studies Student Poster Session, Piscataway, NJ.
- 94. <u>Poster Presentation</u>. May 2015. *Creating alcohol and drug use interventions that resonate with college athletes*. Rothschild, L.F., Ray, A.E., Conway, F., Barnas, P., Hoge, L., Monaco, R., Womack, J., & Buckman, J.F. Annual Meeting of the Society of Prevention Research. Washington, DC.
- 95. <u>Poster Presentation</u>. May 2015. *The relationship between concussion knowledge and beliefs about symptom reporting among NCAA athletes*. Ray, A.E., Monaco, R., Rothschild, L.F., Barnas, P., Kastuar, S., Womack, J., Conway, F., & Buckman, J.F. Annual Meeting of the Society of Prevention Research. Washington, DC.
- 96. <u>Poster Presentation</u>. May 2015. *Importance of using matched cues in studies of drug cue reactivity: An fMRI BOLD study*. Bates, M.E., Barnes, P., Buckman J.F, Banu, L.M., & Heiss, S. Association for Psychological Science Annual Convention, New York, NY.
- 97. <u>Podium Presentation [Co-Author/PI]</u>. April 2015. *Changes in balance assessments over time using the Biodex Biosway Portable System*. Monaco, R.M., Weismiller, S., & Buckman, J.F. American Medical Society for Sports Medicine Annual Meeting. Hollywood, FL.
- 98. <u>Poster Presentation</u>. March 2015. *Lower HRV during college predicts risky alcohol use after graduation: A longitudinal study*. Banu, L.M., Peyser, D., Buckman, J.F., Vaschillo, B., Vaschillo, E., & Bates, M.E. Collaborative Perspectives on Addiction conference. Baltimore, MD.
- 99. <u>Poster Presentation</u>. March 2015. *Marijuana cue reactivity in heavy marijuana users and controls: An fMRI study*. Banu, L., Buckman, J.F., Puhalla, A., Hanson, C., Hanson, S., Barnas, P., Ray, S., Heiss, S., & Bates, M.E. Collaborative Perspectives on Addiction conference. Baltimore, MD.
- 100. <u>Poster Presentation</u>. March 2015. *Marijuana and health in prospective NCAA student athletes.* Barnes, P., Rothschild, L.F., Conway, F., Ray, A.E., Monaco, R., Hoge, L., Kastuar, S., & Buckman, J.F. Collaborative Perspectives on Addiction conference. Baltimore, MD.
- 101. Symposium Presentation [Co-Author]. March 2015. A transdisciplinary approach to the study of integrated cognitive and physiological processes. Bates, M.E., Buckman, J.F., Vaschillo, E., Vaschillo, B., & Eddie, D. In: Using cognitive science to improve behavioral treatment for persons with substance use disorders". The Inaugural International Convention of Psychological Science. Amsterdam, Netherlands.
- 102. <u>Poster Presentation</u>. November 2014. *Collecting high-quality ECG data within the fMRI environment:* physiologic and neural reactions to a high-load respiratory task. Buckman, J., Puhalla, A., Ray, S., Hanson, S., Hanson, C., Peyser, D., Deo, P., Banu, L., Barnas, P., Heiss, S., & Bates, M. Annual Meeting of the Society for Neuroscience. Washington, DC.

- 103. <u>Poster Presentation</u>. November 2014. Life satisfaction after substance abuse treatment may be linked to quality of social support. Peyser, D., Buckman, J.F., Heiss, S., & Bates, M.E. Poster. Association for Behavioral and Cognitive Therapy. Philadelphia, PA.
- 104. <u>Poster Presentation</u>. September 2014. *Resonance breathing affects hemodynamic oscillations in the brain at 0.1 Hz*. Vaschillo, E., Biswal, B., Buckman, J.F., Peyser, D., Heiss, S., Barnas, P., Banu, L., Puhalla, A., Vaschillo, B., Ray, S., Hanson, S., Hanson, C., & Bates, M.E.. Annual Meeting of the International Society of the Advancement of Respiratory Psychophysiology. New Brunswick, NJ.
- 105. Symposium Presentation [Co-Author]. September 2014. Sighing to restore respiratory variability: proposed mechanism. Vaschillo, E., Vaschillo, B., Buckman, J.F., Heiss, S., & Bates, M.E. Annual Meeting of the International Society of the Advancement of Respiratory Psychophysiology. New Brunswick, NJ.
- 106. <u>Poster Presentation</u>. June 2014. *Simultaneous high quality recording of ECG and fMRI data: neural and physiologic reactions to a high load respiratory task*. Puhalla, A., Buckman, J.F., Ray, S., Hanson, C., Peyser, D., Deo, P., Banu, L., Barnas, P., Heiss, S., & Bates, M.E. Rutgers Neuroscience Symposium. Piscataway, NJ.
- 107. Symposium Presentation [Co-Author]. May 2014. Alcohol, stress resilience, and neurocardiac signaling: gender differences and implications for addiction treatment. Buckman, J., Vaschillo, B., Vaschillo, E., Epstein, E., Eddie, D., & Bates, M.E. In: Exploring stress as a multi-system, multi-dimensional response: sex specificity and treatment implications. International Congress on Alcoholism and Stress: A Framework for Future Treatment Strategies. Volterra, Italy.
- 108. <u>Poster Presentation</u>. May 2014. *Collaboration to reduce risk behaviors and enhance physical and psychological education of collegiate athletes*. Conway, F., Rothschild, L.F., Monaco, R., & Buckman, J.F. American College Health Association conference. San Antonio, TX.
- 109. <u>Poster Presentation</u>. April 2014. Womack, J., Monaco, R.M., & Buckman, J.F. *Concussion knowledge and symptom reporting among college athletes*. American Medical Society for Sports Medicine. New Orleans, LA.
- 110. <u>Poster Presentation</u>. February 2014. Collegiate athletes overestimate marijuana use among college and professional athletes. Barnas, P., Rothschild, L.F., Monaco, R., Womack, J., & Buckman, J.F. Collaborative Perspectives on Addiction conference. Atlanta, GA.
- 111. <u>Poster Presentation</u>. February 2014. *Acute alcohol disrupts neurocardiac processes that support cognitive-emotional flexibility in healthy young adults*. Garcia, A., Vaschillo, E., Eddie, D., Peyser, D., Buckman, J.F., & Bates, M.E. Collaborative Perspectives on Addiction conference. Atlanta, GA.
- 112. <u>Poster Presentation</u>. September 2013. *Association between heart rate, heart rate variability, six times per minute breathing, and baroreflex gain*. Vaschillo, M., Patel, R., Buckman, J.F., & Bates, M.E. Annual Meeting of the International Society of the Advancement of Respiratory Psychophysiology. Leuven, Belgium.
- 113. <u>Poster Presentation</u>. September 2013. *Sigh as a trigger for the baroreflex protective mechanism.* Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Nguyen, T., Puhalla, A., Willie, R., & Bates, M.E. Annual Meeting of the International Society of the Advancement of Respiratory Psychophysiology. Leuven, Belgium.
- 114. <u>Poster Presentation</u>. September 2013. *The mean and the individual: a person-centered approach to neuropsychological recovery in men and women with substance use disorders*. Bates ,M.E., Buckman, J.F., Voelbel, G.T., Eddie, D., & Freeman, J. Pioneers in Endocrinology workshop. New Brunswick, NJ.
- 115. <u>Symposium Speaker</u>. August 2013. *Novel statistical methods for understanding genetic influences on alcohol behaviors*. In: Novel Strategies for Understanding the Role of Genetics in Alcoholism and Drug

- Addiction (Chairs: J. MacKillop & J. Buckman). Annual Convention of the American Psychological Association. Honolulu, HI.
- 116. Poster Presentation. May 2013. Changes in physiological modulation of arousal following CBT intervention in women with alcohol use problems. Vaschillo, B., Vaschillo, E.G., Epstein, E.E., Buckman, J.F., Nguyen, T.T., & Bates, M.E. Annual Meeting of the Society of Prevention Research. San Francisco, CA.
- 117. <u>Poster Presentation</u>. October 2012. *The intersection of genes, drinking behaviors, and neurocardiac dynamics*. Buckman, J., Holland, R., Nguyen, T., Buyske, S. Vaschillo, E. Jalil, M. Vaschillo, B. & Bates, M. Society for Neuroscience convention. New Orleans, LA.
- 118. <u>Symposium Presentation [Co-Author]</u>. November 2011. *Neurocardiac regulation and low response to alcohol in familial alcoholism*. Bates, M.E., Mun, E.Y., Buckman, J.F., Vaschillo, E., Vaschillo, B., & Bates, M.E. Joint International Conference on Alcohol, Drug and Addiction. Bangkok, Thailand.
- 119. <u>Poster Presentation</u>. October 2011. *Effects of baroreflex on heart rate variability*. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Nguyen, T., Fonoberov, V.A., Mezić, I., & Bates, M.E. Annual Meeting of the International Society of the Advancement of Respiratory Psychophysiology. Athens, Greece.
- 120. Symposium Presentation [Co-Author]. September 2010. Family history, vulnerability mechanisms, and emotional dysregulation. Bates, M.E., Buckman, J., Vaschillo, E., Mun, E.Y., Vaschillo, B. & Udo, T. In: Neurobehavioral systems underlying alcohol-related emotional and cognitive dysregulation (Chair: S.J. Nixon). International Society for Biomedical Research on Alcoholism World Congress. Paris, France.
- 121. <u>Poster Presentation</u>. June 2010. *Risk for alcohol use problems and low neurophysiological adaptability*. Udo, T., Mun, E. Y., Vaschillo, E., Vaschillo, B., Buckman, J., Lehrer, P., & Bates, M.E. Annual Meeting of the Society for Prevention Research. Denver, CO.
- 122. <u>Poster Presentation</u>. January 2010. *Resonances in the cardiovascular system: investigation and clinical applications*. Vaschillo, E.G., Vaschillo, B., Buckman, J.F., Bates, M.E., & Pandina, R.J., International Conference on Bio-inspired Systems and Signal Processing (BIOSIGNALS). Valencia, Spain.
- 123. Symposium Presentation [Co-Author]. November 2009. *A developmental perspective on emotion-regulation processes in developing alcohol problems among men.* Cohn, A.M., Hildebrandt, T., Buckman, J., & White, H.R. Annual Convention of the Association for Behavioral and Cognitive Therapies. New York, NY.
- 124. <u>Poster Presentation</u>. August 2009. *Latent class analysis of psychosocial and psychophysiological risks for drinking*. Udo, T., Buckman, J.F., Bates, M.E., Vaschillo, E., Vaschillo, B., & Lehrer, P. Annual Convention of the American Psychological Association. Toronto, Canada.
- 125. <u>Speaker.</u> April 2009. *Exploring genetic influences on alcohol use.* Rutgers Transdisciplinary Prevention Research Center. Piscataway, NJ.
- 126. <u>Poster Presentation</u>. October 2008. *Latent class analysis of risk factors for alcohol use disorders*. Udo, T., Bates, M.E., Vaschillo, E., Vaschillo, B., & Buckman, J.F. Transdisciplinary Approaches to Mechanisms of Behavior Change (MOBC) in Alcohol: Connecting Basic Science Discoveries to Behavior Change Research. New York, NY.
- 127. <u>Poster Presentation</u>. August 2008. *Profiles of male student athletes who use banned substances*. Buckman, J.F., Yusko, D.A., White, H.R., Pandina, R.J. Annual Convention of the American Psychological Association. Washington, DC.
- 128. <u>Poster Presentation</u>. June 2008. *Performance enhancing substance use by college student athletes*. Buckman, J.F., Yusko, D.A., White, H.R., & Pandina, R,J. Annual Meeting of the Society of Prevention Research. San Francisco, CA.

- 129. <u>Speaker.</u> January 2008. *Physiological reactivity to positive picture cues in college students mandated for alcohol interventions*. Rutgers Transdisciplinary Prevention Research Center. Piscataway, NJ.
- 130. <u>Speaker.</u> November 2007. *A survey of alcohol and drug use by college student athletes.* Rutgers Transdisciplinary Prevention Research Center. New Brunswick, NJ.
- 131. <u>Poster Presentation</u>. August 2007. *Social networks and cognitive impairment in clients with substance use disorders*. Buckman, J.F., Bates, M.E., & Morgenstern, J. Annual Convention of the American Psychological Association. San Francisco, CA.
- 132. <u>Poster Presentation</u>. February 2007. *Volumetric differences of the thalamus associated with childhood psychopathology and family history of alcoholism*. Buckman, J.F., Locascio, G., Zakrzewski, C., Hendren, R.L., & Bates, M.E. Annual Meeting of the International Neuropsychological Society. Portland, OR.
- 133. <u>Poster Presentation</u>. August 2006. *The influence of cognitive impairment on social functioning*. Bates, M.E., Pawlak, A.P., & Buckman, J.F. Annual Convention of the American Psychological Association. New Orleans, LA.
- 134. <u>Poster Presentation</u>. May 2006. *Neuropsychological impairment indirectly influences recovery from negative alcohol consequences after treatment*. Pawlak, A.P., Buckman, J.F., & Bates, M.E. Association for Psychological Science Annual Convention. New York, NY.
- 135. <u>Poster Presentation</u>. October 2005. *Paradoxical effects of familial alcoholism on amygdala volumes in children with and without psychiatric diagnoses*. Voelbel, G., Bates, M., Buckman, J., Pandina, G., & Hendren, R. Annual National Academy of Neuropsychology meeting. Tampa, FL.
- 136. <u>Poster Presentation</u>. August 2005. *Linking alcohol-related cognitive impairment to therapeutic process.*Buckman, J.F., Bates, M.E., Pawlak, A.P., & Tonigan, J.S. Annual Convention of the American Psychological Association. Washington, DC.
- 137. <u>Poster Presentation</u>. May 2005. *Heart rate and skin conductance variability: new measures of psychophysiological reactivity to emotional and drug related stimuli*. Bates, M.E., Lehrer, P., Vaschillo, E., Vaschillo, B., Pandina, R., Ray, S. & Buckman, J. Annual Meeting of the Society for Prevention Research. Washington DC.
- 138. <u>Poster Presentation</u>. November 2001. *Spontaneous mitochondrial activities in astrocytes*. Buckman, J.F. & Reynolds, I.J. Society for Neuroscience. San Diego, CA.
- 139. <u>Poster Presentation</u>. November 2000. *Spontaneous mitochondrial depolarizations and motility in neurons*. Buckman, J.F., Han, Y., & Reynolds, I.J. Society for Neuroscience. New Orleans, LA.
- 140. <u>Symposium Speaker</u>. September 2000. *Dynamics of mitochondrial membrane potential in neurons and astrocytes*. Buckman, J.F. & Reynolds, I.J. Frontiers in Mitochondrial Research. Albany, NY.
- 141. <u>Poster Presentation</u>. June 2000. *The impact of glutamate and calcium on mitochondrial function in central neurons*. Reynolds, I.J., Brocard, J., Votyakova, T.V., & Buckman, J.F. International Conference on Glutamate. Pittsburgh, PA.
- 142. <u>Poster Presentation</u>. October 1999. *MitoTracker dyes as markers of mitochondrial volume*. Buckman, J.F., Pal, S.K., Kress, G.J., & Reynolds, I.J. Society for Neuroscience. Miami Beach, FL.
- 143. <u>Poster Presentation</u>. October 1998. *Changes in presynaptic glutamate immunoreactivity following handling-induced convulsions*. Buckman, J.F. & Meshul, C.K. Society for Neuroscience. Los Angeles, CA.

- 144. <u>Poster Presentation</u>. November 1997. *Glutamate uptake in selectively bred WSP and WSR mice*. Buckman, J.F., Janowsky, A., & Meshul, C.K. Society for Neuroscience. New Orleans, LA.
- 145. <u>Poster Presentation</u>. Buckman JF, Meshul CK. Ultrastructural immunocytochemical analysis of drug- and convulsion -naïve WSP and WSR mice. November 1996, Poster. Society for Neuroscience. Washington, DC.