**Curriculum Vitae**

**ROBERT ROSS MACLEAN, PhD**

VA Connecticut Healthcare System/Yale University

950 Campbell Avenue

Mailstop 116B

West Haven, CT 06516

robert.maclean@va.gov

ross.maclean@yale.edu

203-932-5711 x17423

EDUCATION

2011 - 2015 **Doctor of Philosophy**, Clinical Psychology (*APA Accredited*)

The Pennsylvania State University

University Park, PA

2009 - 2011 **Master of Science**, Clinical Psychology (*APA Accredited*)

The Pennsylvania State University

University Park, PA

2000 - 2004 **Bachelor of Science**, Psychology

University of Connecticut

Storrs, CT

LICENSURE

Connecticut Psychologist (#3602); October 19, 2016

TRAINING

2015 - 2017 **Advanced Fellowship** (*APA Accredited*)

New England Mental Illness Research, Education, and Clinical Center

VA Connecticut Healthcare System and Yale University

2014 - 2015 **Clinical Psychology Internship** (*APA Accredited*)

VA Connecticut Healthcare System

APPOINTMENTS

2017 - **Clinical Psychologist**, VA Connecticut Healthcare System

2017 - **Assistant Professor,** Yale University School of Medicine

SCHOLARLY ACTIVITY

PEER REVIEWED ARTICLES

1. Parida, S., **MacLean, R.R.,** Gueorguieva, R., Sofuoglu, M. (2024). Pulsed nicotine infusions as a model for smoking: validating a tool to explore nicotine thresholds in humans. *Psychopharmacology.* 1-8.
2. Wolkowicz, N.R., Sofuoglu, M., Pittman, J., Meyerovich, J., **MacLean, R.R.,** & De Aquino, J.P. A preliminary investigation of the acute effects of delta-9-tetrahydrocannabinol on pain and opioid attentional bias among persons with opioid use disorder. *Journal of Psychiatric research,* 199, 90.95.
3. Weleff, J., Nunes, J.C, Costa, G.P.A., Sofuoglu, M., **MacLean, R.R.**, & De Aquino, J.P. From Taboo to Treatment: The Emergence of Psychedelics in the Management of Pain and Opioid Use Disorder. *British Journal of Clinical Psychopharmacology,* In Press
4. **MacLean, R.R.,** Ankawi, B., Driscoll, M.A., Gordon, M.A., Frankforter, T.L., Nich, C.L., Szollosy, S.K., Loya, J.M., Brito,L Ribeiro, M.I.P., Edmond, S.N., Becker, W.C., Martino, S., Sofuoglu, M. &. Heapy, A.A.. (2024) Efficacy of Integrating the Management of Pain and Addiction via Collaborative Treatment (IMPACT): A randomized clinical trial of a digital cognitive behavioral treatment. *Journal of Medical and Internet Research: Protocols*, 13(1), e54342.
5. Manhapra, A., **MacLean, R.R.,** Rosenheck, R., & Becker, W.C. (2023). Are opioids effective analgesics and is physiological opioid dependence benign? Revising current assumptions to effectively manage long‐term opioid therapy and its deprescribing. *British Journal of Clinical Pharmacology*, In Press
6. **MacLean, R.R.,** Spinola, S., Pittman, B., Meyeroich, J., Szollosy, S.K., Wolkowicz, N.R., Minnix, S., & Sofuoglu, M. (2023). The relationship between pain intensity and opioid craving with delayed methadone dose: A preliminary study of individuals with opioid use disorder*. British Journal of Clinical Pharmacology*, In Press
7. **MacLean, R.R.,** Heapy, A.A., Waters, A.J., Wolkowicz, N., Szollosy, S.K., Meyerovich, J., & Sofuolgu, M. (2023). Integrating cognitive bias modification for pain and opioid cues into medication for opioid use disorder clinical care: Feasibility, acceptability, and preliminary results. *Drug and Alcohol Dependence.* 246(1).
8. Reilly, E.D., Wolkowicz, N.R., Heapy, A., **MacLean, R.R.,** Duarte, B.A., Chamberlin, E.S., Harris, J.I, Shirk, S.D. & Kelly, M.M. (2023) Chronic pain and problematic substance use for veterans during COVID-19: the moderating role of psychological flexibility. Frontiers in Health Psychology. 14: 1173641.
9. **MacLean, R.R.,** Heapy, A.A., Waters, A.J., Wolkowicz, N., Szollosy, S.K., Meyerovich, J., & Sofuolgu, M. (2023). Integrating cognitive bias modification for pain and opioid cues into medication for opioid use disorder clinical care: Feasibility, acceptability, and preliminary results. *Drug and Alcohol Dependence.* 246(1).
10. Adams, L.A., **MacLean, R.R.,** Portnoy, G.A., Beauvais, J., Stacy, M.A. (2023). Psychology Trainee and Supervisor Perspectives of Multicultural Supervision. *Psychological Services.* 20(S1). 78-85.
11. **MacLean, R.R.,** Sofuoglu, M., Stefanovics, E., & Rosenheck R. (2023). Opioid use disorder with chronic pain increases disease burden and service use. *Psychological Services.* 20(1). 157-165.
12. **MacLean, R.R.**, Buta, E., Higgins, D.M., Driscoll, M.A., Edmond, S.N., LaChappelle, K.M., Ankawi, B., Krein, S.L., Piette, J.D., & Heapy, A.A. (2022) Using daily ratings to examine treatment dose and response in CBT for chronic pain: A secondary analysis of the Co-Operative Pain Education and Self-Management clinical trial. *Pain Medicine.* 01 Jul 2023, 24(7), 746-854.
13. **MacLean, R.R.,** Eid, T., Parida, S, Gueorguieva, R., DeVito, E.E., & Sofuoglu, M. (2023). Threshold for the pleasurable effects of nicotine are lower than its reinforcing effects during self-administration. *Experimental and Clinical Psychopharmacology.* 31(1). 37-45
14. Mattocks, K.M., LaChappelle, K.M., Krein, S.L., DeBar, L., Martino, S., Edmond, S., Ankawi, B., **MacLean, R.R.**, Higgins, D.M., Murphy, J.L., Cooper, E., & Heapy, A.A.. (2022). Pre-Implementation Evaluation of Co-Operative Pain Education and Self-Management (COPES) Expanding Treatment for Real-World Access (ExTRA): A Pragmatic Pain Trial. *Pain Practice*. 21(S2). S21-S28.
15. Ankawi, B., Piette, J.D., Buta, E., Edmond, S.N., **MacLean, R.R.**, Higgins, D.M., LaChappelle, K., Krein, S.L., & Heapy, A.A. (2022). Adherence to Daily Interactive Voice Response Calls for a Chronic Pain Intervention. *Journal of Technology in Behavioral Science.* 7. 343-350.
16. Wolkowicz, N.R., Peltier, M.R., Wemm, S., & **MacLean, R.R**. (2022). Subjective Stress and Alcohol Use Among Young Adult and Adult Drinkers: Systematic Review of Studies Using Intensive Longitudinal Designs. *Drug and Alcohol Dependence Reports.* 3. 100039.
17. Schwartz, E.C., Wolkowicz, N.R., De Aquino, J.P., **MacLean, R.R.,** & Sofuoglu, M. (2022). Cocaine use disorder (CUD): Current clinical perspectives. 13. 25-46.
18. Gueroguieva, R., Schwartz, E., **MacLean, R.R.,** DeVito, E.E., Eid, T., Wu, R., O’Malley, S., & Sofuoglu, M. (2022). Plasma Menthol Glucuronide as a Biomarker for the Behavioral Effects of Menthol and Nicotine in Humans. *Frontiers in Pharmacology.* 13. 844824.
19. De Aquino, J.P., **MacLean, R.R.,** Eid, T., Gueorguieva, R., DeVito, E.E., & Sofuoglu, M. (2022). Impact of Delivery Rate on the Subjective, Physiological and Cognitive Responses to IV Nicotine in Smokers. *Addiction Biology.* 27(2). e13161.
20. Reuman, L., Solar, S., **MacLean, R.R.,** Halat A.M., Rajeevan, H., Williams, D.A., Heapy, A.A., Bair, M.J., Krein, S.L., Kerns, R.D., & Higgins, D.M. (2022) If you personalize it, will they use it?: Self-reported and observed use of a tailored, internet-based pain self-management program. *Translational Behavioral Medicine.* 12(5). 693-701.
21. Spelman, J.F., Edens, E.L., Mava, S., Moore, B.A., Ackland, P.,Becker, W., Lynch, D., Vassallo, M.G., Burgo, A.L., **MacLean, R.R.,** & Rosen, M.I. (2021). Results of a system-wide initiative to increase access to medication for opioid use disorder in primary care and general mental health settings. *Federal Practitioner.* 38(10). 460.
22. **MacLean, R.R.**, DeVito, E.E., Eid, T., Parida, S., Gueorguieva, R., & Sofuoglu, M. (2021) Threshold dose for intravenous nicotine self-administration in young adult non-dependent smokers. *Psychopharmacology.* 238(*8*). 2083-2090.
23. Lydon-Staley, D.M., **MacLean, R.R.**, Falk, E.B, Bassett, D.S., & Wilson, S.J. (2021) The feasibility of an in-scanner smoking lapse paradigm to examine the neural correlates of lapses. *Addiction Biology.* 26(*4*). e13001.
24. **MacLean, R.R.,** Spinola, S, Garcia-Vassallo, G., & Sofuoglu, M. (2020). The impact of chronic pain on opioid use disorder treatment outcomes. *Current Addiction Reports.* 8, 100-108.
25. Solar, C., Halat, A.M., **MacLean, R.R.,** Rajeevan, H., Williams, D.A., Krien, S.L., Heapy, A.H., Bair, M.J., Kerns. R.D., & Higgins D.M. (2020). Demographic predictors of engagement in an internet-based cognitive behavioral therapy program for veterans with chronic low back pain. *Translational Behavioral Medicine.* ibaa098. 1-9.
26. Heapy, A.A., Driscoll, M.A., Buta, E., LaChappelle, K.M., Edmond, S., Krein, S.L., Piette, J.D., Mattocks, K., Murphy, J., DeBar, L., **MacLean, R.R.,** Ankawi, B., Kawecki, T., Martino, S., & Higgins, D. (2020). COPES Expanding Treatment for Real-world Access (ExTRA) pragmatic trial protocol. *Pain Medicine*. 21 (Supp 2); S21-S28.
27. Roos, C.R., Kober, H., Trull, T.J., **MacLean, R.R.,** & Mun, C.J. (2020). Intensive longitudinal methods for studying the role of self-regulation strategies in substance abuse behavior change. *Current Addiction Reports.* 7, 301-316. PMC7837607
28. Manhapra, A., Sullivan, M.D., Ballantyne, J.C., **MacLean, R.R.,** & Becker, W.C. (2020) Complex persistent opioid dependence with long-term opioids: A gray area that needs definition, better understanding, treatment guidance, and policy changes. *Journal of General Internal Medicine.* 35 (3), 964-971. 35 (3), 964-971.
29. **MacLean, R.R.,** Gueorguieva, R., Devito, E., Peltier, M.R., Parida, S., & Sofugolu, M. (2020) The effects of inhaled flavors on intravenous nicotine. *Experimental and Clinical Psychopharmacology.* 29(*6*). 615.
30. **MacLean, R.R.**, Sofuoglu, M., Waters, A.J. (2020). Naturalistic assessment of dual cue attentional bias in moderate to heavy-drinking smokers: A preliminary investigation. *Drug & Alcohol Dependence.* Apr 1; 209:107892.
31. **MacLean, R.R.,** Spinola, S., Manhapra, A., & Sofuolgu, M. (2019). Systematic review of pain severity and opioid craving in chronic pain and opioid use disorder. *Pain Medicine.* 21(2). e146-e163.
32. **MacLean, R.R.,** Armstrong, J. L., & Sofuoglu, M. (2019). Stress and opioid use disorder: A systematic review. *Addictive Behaviors.* Nov; 98:106010. PMID: 312238237.
33. Arout, C.A., Waters, A.J., **MacLean, R.R.,** Compton, P. & Sofuoglu, M. (2019). Minocycline does not affect experimental pain or addiction-related outcomes in opioid maintained patients. *Psychopharmacology,* Oct; 236(10). 2857-2866. PMID: 30564869.
34. **MacLean, R.R.,** Sofuoglu, M., Brede, E., Robinson, C., & Waters, A.J. (2018) Attentional bias in opioid users: A systematic review and meta-analysis. *Drug and Alcohol Dependence.* Oct 1;191:270-278. PMID: 30157467
35. **MacLean, R.R.,** Waters, A.J., Brede, E., & Sofuoglu, M. (2018) Effects of galantamine on smoking behavior and cognitive performance in treatment seeking smokers. *Human Psychopharmacology: Experimental and Clinical.* Jul;*(33)4*:e2665. PMID: 29926988.
36. **MacLean, R.R.** & Sofuoglu, M. (2018). Stimulants and Mood Disorders. *Current Addiction Reports. 5*(3). 323-329.
37. **MacLean, R.R.,** Cowan, A., & Vernarelli, J.A. (2018). More to gain: Dietary energy density is related to smoking status in US adults. *BMC Public Health*. Apr 4;*18(1)*: 365. PMID: 29614996.
38. **MacLean, R.R.,** Sofuoglu, M., & Rosenheck, R. (2018). Tobacco and Alcohol use disorder: Evaluating multimorbidity. *Addictive Behaviors*. *78*. 59-66. PMID: 29127785.
39. **MacLean, R.R.,** Pincus, A.L., Smyth, J.M., Geier, C.F., & Wilson, S.J. (2017). Extending the Balloon Analogue Risk Task to assess naturalistic risk taking via a mobile platform. *Journal of Psychopathology and Behavioral Assessment.* Mar;40(1).107-116. PMID: 30505069
40. Sells, J., Waters, A.J., & **MacLean, R.R.** (2017). Evaluating the influence of at-risk alcohol use on factors associated with smoking cessation: Combining laboratory and ecological momentary assessment. *Drug and Alcohol Dependence, 179*, 267-270. PMID: 28822262
41. **MacLean, R.R.,** Valentine, G., Jatlow, P., & Sofuoglu, M. (2017). Inhalation of alcohol vapor: Measurement and implications, *Alcoholism: Clinical and Experimental Research,* *41*(2), 238-250. PMID: 28054395
42. **MacLean, R.R.** Martino, S., Carroll, K.M., Smyth, J.M., Pincus, A.L., & Wilson, S.J. (2017). Momentary associations between reported craving and valuing health in daily smokers. *Nicotine & Tobacco Research, 19*(6). 716-722 PMID: 28486711
43. **MacLean, R.R.,** Nichols, T.T., LeBreton, J.M. & Wilson, S.J. (2016). Effects of cognitive load on neural and behavioral responses to smoking cue distractors. *Cognitive, Affective, and Behavioral Neuroscience*. *16*(4), 588-600. PMID: 27012714
44. Wilson, S.J., Delgado, M.R., McKee, S.A., Grigson, P.A., **MacLean, R.R.,** Nichols, T.T., & Henry, S.L. (2014). Weak ventral striatal responses to monetary outcomes predict an unwillingness to resist cigarette smoking. *Cognitive, Affective, and Behavioral Neuroscience.* *14*(4), 1196-1207. PMID: 24777394
45. **MacLean, R.R.,** Geier, C.F., Henry, S.L. & Wilson, S.J. (2013). Digital Peer Interactions Affect Risk Taking in Young Adults. *Journal of Research on Adolescence. 24*(4), 772-780.
46. Wilson, S.J., Smyth, J., & **MacLean, R.R.** (2013) Integrating Ecological Momentary Assessment and Brain Imaging Methods: New Avenues for Studying and Treating Tobacco Dependence. *Nicotine & Tobacco Research. 16* *Suppl 2*, S102-110.PMID: 24132411
47. Licata, S.C., Nickerson, L.D., Lowen, S.B., Trksak, G.H., **MacLean, R.R.**, & Lukas, S.E. (2013). The hypnotic zolpidem increases synchrony of BOLD signal fluctuations in widespread drain networks during resting paradigm. *NeuroImage*. *70,* 211-222. PMID: 23296183
48. Lindsey, K.P., Bracken, B.K., **MacLean, R.R.**, Ryan, E.T., Lukas, S.E., & Frederick, B.deB. (2013). Nicotine content and abstinence state have different effects on subjective ratings of positive versus negative reinforcement from smoking. *Pharmacology, Biochemistry, and Behavior, 103*(4), 710-716. PMID: 23219727
49. Wilson, S.J. & **MacLean, R.R.** (2012). Associations between Self-Control and Dimensions of Nicotine Dependence: A Preliminary Report. *Addictive Behavior. 38*(3). 1812-1815. PMID: 24132411
50. Penetar, D.M., Burgos-Robles, A., Trksak, G.H. **MacLean, R.R.**, Dunlap, S., Y-W Lee, David, & Lukas, S.E. (2012). Effects of transcutaneous electric acupoint stimulation on drug use and responses to cue-induced craving: A pilot study. *Chinese Medicine*, *7*(14). PMID: 22682006
51. Licata, S.C., Lowen, S.B., Trksak, G.H., **MacLean, R.R.**, & Lukas, S.E. (2011). Zolpidem reduces the blood oxygen level-dependent signal during visual system stimulation. *Progress in Neuro-Psychopharmacology & Biological Psychiatry,* *35*(7), 1645-1652. PMID: 21640782
52. Bracken, B.K., Penetar, D.M., **MacLean, R.R.**, & Lukas, S.E. (2011). Kudzu root extract does not perturb the sleep/wake cycle of moderate drinkers. *Journal of Alternative and Complementary Medicine*, *17*(10), 961-966. PMID: 22010780
53. Licata, S.C., Mashhoon, Y., **MacLean, R.R.**, & Lukas, S.E. (2011). Modest abuse-related subjective effects of zolpidem in drug-naïve volunteers. *Behavioural Pharmacology,* *22*(2),160-166. PMID: 21301324
54. Meade, C.S., Lowen, S.B., **MacLean, R.R.**, Key, M.D., & Lukas, S.E. (2011). fRMI brain activation during a delay discounting task in HIV-positive adults with and without cocaine dependence. *Psychiatry Research: Neuroimaging,* *192*(3), 167-175. PMID: 21546221
55. Penetar, D.M., **MacLean, R.R.**, McNeil, J.F., & Lukas, S.E. (2011). Kudzu extract treatment does not increase the intoxicating effects of acute alcohol in human volunteers. *Alcoholism: Clinical and Experimental Research*, *35*(4), 726-734. PMID: 21244439
56. Lindsey K.P., Lukas S.E., **MacLean R.R.**, Ryan E.T., Reed K.R, & Frederick B.deB. (2009). Design and validation of an improved nonferrous smoking device for self-administration of smoked drugs with concurrent fMRI neuroimaging. *Clinical EEG and Neuroscience*, *40*(1), 21-30. PMID: 19278129
57. **MacLean, R.R.** & Datta, S. (2007). The relationship between anxiety and sleep-wake behavior after stressor exposure in the rat. *Brain Research,1164*, 72-80. PMID: 17644077
58. Datta, S. & **MacLean, R.R.** (2007). Neurobiological mechanisms for the regulation of sleep-wake behavior: Reinterpretation of Historical Evidence and Inclusion of Contemporary Cellular and Molecular Evidence. *Neuroscience and Biobehavioral Reviews*, *31*(5), 775-824. PMID: 17445891

PEER REVIEWED ABSTRACTS FOR SCIENTIFIC MEETINGS

1. Wolkowicz, N.R., Musket, C.W., Sofuoglu, M., Reilly, E.D., **MacLean, R.R.**, & Portnoy, G. (June 2024) “A qualitative investigation of Veterans’ perceived barriers to medication treatment for opioid use disorder” The College on Problems of Drug Dependence 86th annual meeting, Montreal, Canada.
2. **MacLean, R.R.,** Spinola, S., Pittman, B., Meyerovich, J., Szollosy, S., Wolkowicz, N.R., & Sofuoglu, M. (June 2023) “Greater objective and subject pain intensity and coupling of pain and opioid craving after delaying methadone dose among Veterans with opioid use disorder receiving methadone” The College on Problems of Drug Dependence 85th annual meeting, Denver, CO.
3. Wolkowicz, N.R., Sofuoglu, M., De Aquino, J.P., & **MacLean, R.R.** (June 2023)“Variation in psychosocial symptom change: A preliminary examination of Veterans in early medication treatment for opioid use disorder” The College on Problems of Drug Dependence 85th annual meeting, Denver, CO.
4. De Aquino, J.P., Wolkowicz, N.R., Sofuoglu, M., Pittman, B., & **MacLean, R.R.** (February 2023) “Estimating the risk/benefit ratio of cannabinoids among persons with opioid use disorder: Attentional bias for pain and opioids as a novel treatment target” The International Society for CNS Clinical Trials and Methodology, Washington, D.C.
5. **MacLean, R.R.** Gueorguieva, R., Parida, S., & Sofuoglu, M. (2022 February). Threshold for nicotine reinforcement during nicotine self-administration procedure. Society for Nicotine and Tobacco Research, Held virtually.
6. **MacLean, R.R.,** Heapy, A., & Sofuoglu, M. (2021 June). Attentional bias to opioid and pain cues in Veterans with opioid use disorder and chronic pain. The College on Problems of Drug Dependence 83rd annual meeting, Held virtually.
7. **MacLean, R.R.**, Gueorguieva, R., Parida, S., & Sofuoglu, M. (2021 February). Nicotine threshold detection and reinforcement in young adult light smokers. Society for Nicotine and Tobacco Research, Held virtually.
8. Driscoll, M.A., Buta, E., Grinberg, A.M., Higgins, D.M., **MacLean, R.R.**, Edmond, S.N., LaChappelle, K.M., Ankawi, B., & Heapy, A. (2019 October). Daily deviations in sleep quality: Implications for pain and its management. HSR&D/QUERI National Conference. Washington, D.C.
9. **MacLean, R.R.** Higgins, D.M., Buta, E., Driscoll, M.A., LaChappelle, K.M., Edmond, S.N., Halat, A.M., & Heapy, A.L. (2019 March). Association between baseline measures and variability in daily pain intensity assessed during cognitive behavioral therapy for chronic pain. Society of Behavioral Medicine. Washington, D.C.
10. Higgins, D.M., Buta, E., Driscoll, M.A., LaChappelle, K.M., Edmond, S.N., **MacLean, R.R.**, Halat, A.M., & Heapy, A.L. (2019 March) Patient-reported satisfaction in technology-delivered cognitive behavioral therapy for chronic pain. Society of Behavioral Medicine. Washington, D.C.
11. Cowan, A., **MacLean, R.R.,** & Vernarelli, J.V. (2017 April) More to gain: Diet energy density is associated with smoking status in U.S. adults. Experimental Biology Conference, Chicago, IL.
12. **MacLean, R.R.**, Martino, S., Carroll, K, Pincus, A.L., Smyth, J.M., & Wilson, S.J. (2016 August) Momentary associations between reported craving and valuing health in daily smokers. American Psychological Association Annual Convention, Denver, CO.
13. **MacLean, R.R.**, Pincus, A.L., Smyth, J.M., Geier, C.G. & Wilson, S.J. (2016 June) Assessing naturalistic risk-taking in nondaily smokers using a novel mobile Balloon Analogue Risk Task**.** The College on Problems of Drug Dependence 78th annual meeting, Palm Springs, CA.
14. **MacLean, R.R.**, Shishkoff, G, & Wilson, S.J. (2014 June) Planned disinhibition? Risky sexual behavior, problematic alcohol use, and gender. The College on Problems of Drug Dependence 76th annual meeting. San Juan, Puerto Rico.
15. Wilson, S., **MacLean, R.**, & Muscat, J. (2013 October) Sex Moderates the Association Between Volume of the Striatum and Interest in Quitting Smoking in Adult Cigarette Smokers. Tenth Anniversary NIH Interdisciplinary Women’s Health Research Symposium, New Rochelle, NY.
16. **MacLean, R.R.,** Roche, M.J., Pincus, A.L., & Wilson, S.J. (2013 August). Investigating disinhibition facets and risk-taking in smokers using ecological momentary assessment. American Psychological Association 121st Convention, Honolulu, HI.
17. **MacLean, R.R.** & Wilson, S.J. (2013 March). Resting state connectivity: Relationships between default mode network, addiction-related networks, and craving. Society for Nicotine and Tobacco Research, Boston, MA.
18. Wilson, S.J., Delgado, M.R., McKee, S.A., **MacLean, R.R.**, Nichols, T.T., Henry, S.L. (2013 March). Examining the effects of smoking expectancy on neural and behavioral responses to reward in nicotine-deprived smokers. Society for Nicotine and Tobacco Research, Boston, MA.
19. **MacLean, R.R.**, Medaglia, J.D., Hillary, F.G., & Wilson, S.J. (2012 October). Resting state functional connectivity associated with abstinence-induced craving in nicotine addiction. Neuroscience 2012 the annual meeting for the Society for Neuroscience, New Orleans, LA
20. **MacLean, R.R.,** McClernon, F.J., Kozink, R.V., & Wilson, S.J. (2011 November). Regional gray matter volumes associated with facets of nicotine dependence: A voxel-based morphometry study. Neuroscience 2011 the annual meeting for the Society for Neuroscience, Washington, D.C.
21. **MacLean, R.R.,** & Wilson, S.J. (2011, August). The relationship between behavioral control and abstinence self-efficacy in dependent smokers. American Psychological Association 119th Convention, Washington D.C.
22. **MacLean, R.R.**, Wilson, S.J., Sayette, M., & Fiez, J. (2010, November). Evaluating working memory performance in heavy cigarette smokers using fMRI: Individual differences in working memory capacity and effects of distraction. Neuroscience 2010 the annual meeting of the Society for Neuroscience, San Diego, California.
23. Bracken B.K., Penetar D., **Maclean R.R.,** Lee D.Y-W., & Lukas S.E. (2010, June). Kudzu root extract does not affect the sleep/wake cycle in moderate drinkers. 72nd annual meeting of The College on Problems of Drug Dependence, Scottsdale, Arizona.
24. Bracken, B.K., **MacLean, R.R.**, Frederick, B.deB., Lukas, S.E., & Lindsey, K.P. (2009, November). Physiological and subjective effects of nicotine versus smoking-associated conditioned reinforcers in dependent and non-dependent smokers. Neuroscience 2009 the annual meeting of the Society for Neuroscience, Chicago, IL.
25. Licata, S.C., Jensen. J.E., Lowen, S.B., **MacLean, R.R.**, Penetar, D.M., Frederick, B.deB.. et al. (2009, August). What does zolpidem do in the brain? Magnetic resonance imaging studies of drug action in healthy volunteers. American Psychological Association 197th Convention, Toronto, Canada.
26. Licata, S.C., Lowen, S.B., **MacLean, R.R.**, Penetar, D.M., Frederick B.deB, & Lukas S.E. (2009, June). Neuronal correlates of oral zolpidem administration: magnetic resonance imaging studies in healthy volunteers. 71st annual meeting of The College on Problems of Drug Dependence, Reno, Nevada.
27. Meade, C.S., Lowen, S.B., **MacLean, R.R.**, & Lukas, S.E. (2009, June). fMRI brain activation during a delay discounting task in HIV-positive adults with cocaine dependence. 71st annual meeting of The College on Problems of Drug Dependence, Reno, Nevada.
28. Penetar, D.M., **MacLean, R.R.**, Lee, D., & Lukas, S.E. (2009, June). Psychomotor responses to alcohol are not affected by isoflavone (Kudzu extract) pretreatment. Research Society on Alcoholism, San Diego, CA.
29. Lindsey, K.P., **MacLean, R.R.**, Frederick, B.deB, & Lukas, S.E. (2009, June). Effects of Nicotine and smoking on BOLD Response to Visual Stimulation. 15th annual meeting of the Organization for Human Brain Mapping, San Francisco, CA.
30. Lindsey, K., Frederick, B., Nickerson, L., **MacLean, R.R**., & Lukas, S. (2008, June). Pharmacological MRI of cigarette and placebo smoking. 14th annual meeting of the Organization for Human Brain Mapping 14th Annual Meeting, Melbourne, Australia.
31. **MacLean R.R.,** Traore M., & Datta S (2007, June). A quantitative measure of anxiety: An important indicator to study the effect of stress on sleep-wake behavior. SLEEP 2007: the 21st annual meeting of the Associated Professional Sleep Societies, Minneapolis, MN.
32. Datta, S., Bandyopadhya, R.S., Saha, S., & **Maclean, R.R.** (2006, November). Pendunculopontine tegmental intracellular cyclic adenosine monophosphate-dependent protein kinase-A and regulation of REM sleep in the freely moving rat. Neuroscience 2006 the annual meeting of the Society for Neuroscience, Atlanta, GA.

CONFERNECE SYMPOSIA

1. **MacLean, R.R.** (2024, June) “When: Divergent time scales of pain-related assessments in Veterans with opioid use disorder engaged in treatment”. Society for Ambulatory Assessment, Ann Arbor, MI.
2. **MacLean, R.R.** (2024, June) “Belief and experience: Relationship between pain catastrophizing and pain intensity in Veterans with opioid use disorder engaged in treatment”. Society for Ambulatory Assessment, Ann Arbor, MI.
3. **MacLean R.R.** (2023, March) “Integrating cognitive bias modification for pain and opioid cues into MOUD clinical care”. Collaborative Perspectives on Addiction, Albuquerque, NM
4. **MacLean, R.R.** (2018, June) “Naturalistic assessment of dual cue attentional bias in moderate to heavy drinking smokers”. Research Society on Alcoholism, San Diego, CA.
5. **MacLean, R.R.** (2013, August) “Giving yourself an edge: Frank advice on funding for graduate research”. American Psychological Association 121st Convention, Honolulu, HI.

GRANTS

5I01RX003382-02 M. Kelly (PI) 10/01/2020 – 09/30/2024

VA RR&D

Title: Acceptance and Commitment Therapy to Improve Social Support for Veterans with PTSD

The primary aim of this study is to conduct a two-site randomized controlled trial of ACT-SS vs. PCT, a common treatment for social support difficulties. Study outcomes will include measures of social support, social relationships, quality of life, and PTSD symptoms.

Role: Site PI (VACT- West Haven)

R61AT010619 A. Heapy (PI) 09/01/2019 – 08/31/2024

NIH/NCCIH

Title: Adapting Web-based CBT to Improve Adherence and Outcome for Individuals with Opioid Use Disorder and Chronic Pain Treated with Opioid Agonists

The goal of this project is to develop and pilot test an integrated, web-based cognitive behavioral approach (R61 phase), and conduct a randomized clinical trial evaluating its efficacy relative to standard care in individuals with chronic pain treated with buprenorphine or methadone (R33 phase).

Role: Co-Investigator

IK2CX002286 R. MacLean (PI) 10/01/2021 – 9/30/2026

VA CSR&D

Title: An adaptive walking intervention to manage chronic pain in veterans with opioid use disorder engaged in opioid agonist treatment.

The goal of this project is to evaluate feasibility, acceptability, and fidelity of a brief walking intervention designed to be integrated into methadone and buprenorphine clinical care.

Role: Principal Investigator

VISN 1 CDA R. MacLean (PI) 10/01/2018-09/30/2020

VA VISN1

Title: Opioid and pain cognitive bias modification in opioid use disorder.

This study is focused on evaluating a brief intervention to reduce opioid craving and pain in individuals with opioid use disorder engaged in mediation assisted treatment.

Role: Principal Investigator

R01 DA043690 H. Kober (PI) 06/01/2017-4/30/2020

NIH/NIDA

Title: Meta-analysis and Machine Learning: Towards Neuromarkers of Craving and Relapse

This study proposed to use published neuroimaging data of cue-reactivity and cue-induced craving and sophisticated computational methods to establish a biomarker of drug craving, then test its predictive utility using imaging data from a recently collected clinical trial.

Role: Senior/Key Personnel

TEACHING

Drug use and Behavior (Sacred Heart University; Undergraduate level, online, semester)

Introduction to Personality (Penn State; Undergraduate level, residential, semester)

Food Addiction: Fact or Fiction? (Penn State; Graduate level, residential, recurring guest Lecturer)

Research Methods (Penn State; Undergraduate level, residential, semester)

Neurological Bases of Human Behavior (Penn State; Undergraduate level, online, semester)

Personality Theory (Penn State; Undergraduate level, residential, semester)

Introduction to Well-Being and Positive Psychology (Penn State; Undergraduate level, online, semester)

CLINICAL EXPERIENCE

2017-present VA Connecticut Healthcare System

West Haven, CT

Clinical Psychologist

*Supervision Experience:* Primary supervisor for Yale medical residents, psychology interns, and postdoctoral fellows administering individual psychotherapy, psycho-diagnostic assessments, and group psychotherapy interventions.

2015-2017 VA Connecticut Healthcare System

West Haven, CT

Postdoctoral Fellow

Supervisors: David Pilkey, Ph.D., Sarah Meshberg-Cohen, Ph.D., Anthony Brinn, Psy.D.

*Supervision Experience:* Supervised psychology interns in group CBT for SUDs.

*Clinical Experience:* Outpatient Addiction and Recovery Services (screens, individual therapy); Cognitive Behavioral Therapy for Substance Use Disorders group; Smoking Cessation group; Motivational Enhancement for Substance Use Treatment group; Cognitive Processing Therapy (individual outpatient); Screening, Brief Intervention, Referral to Treatment (SBIRT)

2014-2015 VA Connecticut Healthcare System

West Haven, CT

Clinical Psychology Internship

Supervisors: David Pilkey, Ph.D., Sarah Meshberg-Cohen, Ph.D., Jason Deviva, Ph.D., Steve Martino, Ph.D., Howard Steinberg, Ph.D., Christine Franco, Ph.D.

*Clinical Experience*: Substance Abuse Day Program (intakes, groups, and case management); Outpatient Substance Abuse Clinic (screenings, groups, individual therapy); Psychosocial Residential Rehabilitation Treatment Program (motivational interviewing group, intakes, case management); Acceptance and Commitment Therapy (inpatient group); Cognitive Behavioral Therapy (outpatient group); Cognitive Processing Therapy (outpatient)

2009-2014 The Pennsylvania State University

The Psychological Clinic

Supervisors: William Ray, Ph.D., Kenneth Levy, Ph.D., Sandra Testa-Michelson, Ph.D., Michelle Newman, Ph.D., Michael Keil, Ph.D., Kristen Kelly, CRNP, Ph.D.

*Clinical Experience*: Weekly individual therapy using various theoretical approaches (Transference Focused Psychotherapy, Cognitive Behavioral Therapy, Emotion Focused Psychotherapy), intake interviews (ADIS and IPDE), neuropsychological testing

AWARDS & HONORS

2018 Junior Investigator Award, Research Society on Alcoholism

2017 Bell-Kerns Research Award, VA Connecticut Healthcare System

2014 Best Clinical Graduate Student Paper, Department of Psychology, Penn State

2014 Superior Teaching and Research Award, College of Liberal Arts, Penn State

2013 APA Division 50 Student Poster Award, 3rd Place

2013 APA Student Travel Award

2012 APA Basic Psychological Science Research Grant, Honorable Mention

2011 Donald A. Trumbo Psychology Department Student Research Fund

2011 NIDA/NIAAA Early Career Travel Award

2010-13 The Bruce V. Moore Graduate Fellowship in Psychology travel award

2010-12 Research and Graduate Office Travel Award, Penn State

2007 SLEEP 2007 abstract selected for pre-conference press release

PROFESSIONAL AFFILIATIONS AND SERVICE

***Affiliations***

2014 Member, The College on Problems of Drug Dependence

2014 Member, Division 50 APA

2013 - 2015 Translational Issues in Psychological Science Journal Workgroup Committee Member

2012 - 2014 Member of the APAGS Science Committee

2009 - 2011 Student Representative of the Clinical Training Committee, Penn State

***Ad-hoc Reviewer (37 journals)***

Journal of Research on Adolescence; Addictive Behaviors; Assessment; Alcoholism: Experimental and Clinical Research; Translational Issues in Psychology; Journal of Substance Abuse Treatment; Drug and Alcohol Dependence; Plos ONE; Psychological Trauma: Theory, Research, Practice, and Policy; Psychology of Addictive Behaviors; Physiology and Behavior; Clinical Epidemiology; Experimental Clinical Psychopharmacology; Expert Systems with Applications; International Journal of Drug Policy; Journal of Psychiatric Research; Nicotine and Tobacco Research; Pain Medicine; Substance Use & Misuse; Alcohol and Alcoholism; American Journal of Addictions; Internet Interventions; Journal of Addiction Medicine; Journal of Clinical Psychology in Medical Settings; Annals of the New York Academy of Sciences; Cognition and Emotion; Contemporary Clinical Trials; Clinical Psychological Science; JAMA – Psychiatry; British Journal of Clinical Pharmacology; Scientific Reports; European Journal of Pain; Behavioral Research Methods; Journal of Clinical Nursing; Comprehensive Psychiatry; Expert Review in Neurotherapeutics; Health Psychology and Behavioral Medicine;