

## Jesse T. Kaye Ph.D.

Center for Tobacco Research and Intervention  
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Mental Health Service Line  
William S. Middleton Veterans Hospital  
2500 Overlook Terrace, Madison, WI 53705  
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### EDUCATION

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- 2018-present Interprofessional Advanced Addiction Treatment Fellowship  
William S. Middleton Memorial Veterans Hospital, Madison, WI  
Center for Tobacco Research and Intervention, University of Wisconsin-Madison
- 2017-2018 Clinical Psychology Internship  
William S. Middleton Memorial Veterans Hospital, Madison, WI
- 2018 Doctor of Philosophy  
Clinical Psychology, University of Wisconsin-Madison
- 2012 Master of Science  
Clinical Psychology, University of Wisconsin-Madison
- 2007 Bachelor of Science  
Psychology, University of Wisconsin-Madison

### COMPLETED FUNDING

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- 2015-2020 **Significant Contributor** (PI: Dr. John Curtin, Co-I: Craig Berridge & Aleksandra Zgierska)  
Agency: National Institute on Alcohol Abuse and Alcoholism (NIAAA)  
Title: Randomized controlled trial targeting noradrenergic stress mechanisms in alcoholism with doxazosin (R01 AA024388)  
Direct Costs: \$1,420,889
- 2014-2017 **Principal Investigator** (Sponsors: Drs. John Curtin & Craig Berridge)  
Agency: National Institute on Alcohol Abuse and Alcoholism (NIAAA)  
National Research Service Award (NRSA) Individual Pre-doctoral Fellowship (F31 AA022845)  
Title: Repurposing alpha1 noradrenergic antagonists for alcoholism treatment  
Direct Costs: \$93,075
- 2010-2013 **Principal Investigator** (Sponsor: Dr. John Curtin)  
Agency: National Science Foundation (NSF)  
Graduate Research Fellowship (DGE-0718123)  
Title: Neural Processes Underlying the Effects of Stress on Behavioral Inhibition  
Direct Costs: \$154,995
- 2013 **Co-Investigator** (PI: Dr. Vaishali Bakshi, Co-I's: Drs. John Curtin, Dean Krahn, Brian Baldo)  
Agency: Wisconsin Partnership Program Education and Research Committee (PERC)  
Collaborative Health Sciences Program (CHSP)  
Title: Finding novel treatments for stress-induced alcoholism: a bench to bedside approach  
Direct Costs: \$0 – Finalists (unfunded)

- 2010-2011 **Principal Investigator** (Co-PI: Kathryn Hefner)  
Agency: National Cancer Institute Transdisciplinary Tobacco Use Research Center  
Developmental Research Grant (Sub-award: P50 CA143188)  
Title: Predicting Quit Success: Physiological Measures and Real-World Experiences of Negative Affect During Nicotine Withdrawal  
Direct Costs: \$30,000
- 2006-2007 **Principal Investigator** (Advisor: Dr. John Curtin)  
Agency: University of Wisconsin – Madison  
Hilldale Undergraduate/Faculty Research Fellowship  
Title: Effects of tobacco withdrawal on executive control of attention  
Direct Costs: \$5,000

## **PUBLICATIONS (13, h-index = 9)**

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- Fronk GE, Sant'Ana SJ, **Kaye JT**, & Curtin JJ (*in press*). Stress allostasis in substance use disorders: promise, progress, and emerging priorities in clinical research. *Annual Review of Clinical Psychology*.
- Johnson AL, **Kaye JT**, Baker TB, Fiore MC, Cook JW, & Piper ME (*in press*). Psychiatric comorbidities in a comparative effectiveness smoking cessation trial: relations with cessation success, treatment response, and relapse risk factors. *Drug and Alcohol Dependence*. doi: 10.1016/j.drugalcdep.2019.107796
- Kaye JT**, Fronk GE, Zgierska AE, Cruz MR, Rabago D, & Curtin JJ (2019). Acute prazosin administration does not reduce stressor reactivity in healthy adults. *Psychopharmacology*, 236, 3371-3382. doi: 10.1007/s00213-019-05297-x
- Bradford DE, Fronk GE, Sant'Ana SJ, Magruder KP, **Kaye JT**, & Curtin JJ (2018). The need for precise answers for the goals of precision medicine in alcohol dependence to succeed. *Neuropsychopharmacology*, 43, 1799-1800. doi: 10.1038/s41386-01800112-y; PMID: 29930386.
- Kaye JT**, Bradford DE, Magruder KP, & Curtin JJ (2017). Probing for neuroadaptations to unpredictable stressors in addiction: translational methods and emerging evidence. *Journal of Studies on Alcohol and Drugs*, 78, 353-371. doi: 10.15288/jsad.2017.78.353; PMID: 28499100.
- Moberg CA, Bradford DE, **Kaye JT**, & Curtin JJ (2017). Increased startle potentiation to unpredictable stressors in alcohol dependence: stress neuroadaptation in humans. *Journal of Abnormal Psychology*, 126, 441-453. doi: 10.1037/abn0000265; PMID: 28394145. PMCID: PMC5418084.
- Kaye JT**, Bradford DE, & Curtin JJ (2016). Psychometric properties of startle and corrugator response in NPU, Affective Picture Viewing and Resting State tasks. *Psychophysiology*, 53, 1241-1255. doi: 10.1111/psyp.12663; PMID: 27167717.
- Bradford DE, **Kaye JT**, & Curtin JJ (2014). Not just noise: Individual differences in general startle reactivity predict startle response to uncertain versus certain threat. *Psychophysiology*, 51, 407-411. doi: 10.1111/psyp.12193; PMID: 24611542.
- Henry EA, **Kaye JT**, Bryan AD, Hutchison KE, & Ito TA (2014). Cannabis cue reactivity and craving among never, infrequent and heavy cannabis users. *Neuropsychopharmacology*, 39, 1214-1221. doi: 10.1038/npp.2013.324; PMID: 24264815.
- Piper ME, Schlam, TR, Cook JW, Sheffer MA, Smith SS, Loh W, Bolt DB, Kim S, **Kaye JT**, Hefner KR, & Baker TB (2011). Tobacco withdrawal components and their relations with relapse vulnerability.

*Psychopharmacology*, 216, 569-578. doi: 10.1007/s00213-011-2250-3; PMID: 21416234; PMCID: PMC3139774.

Ito TA, Willadsen-Jensen EC, **Kaye JT**, & Park B (2011). Contextual variation in automatic evaluative bias to racially-ambiguous faces. *Journal of Experimental Social Psychology*, 47, 818-823. doi: 10.1016/j.jesp.2011.02.016. PMID: 21691437; PMCID: PMC3117667.

McFadden KL, Healy KM, Dettmann ML, **Kaye JT**, Ito TA, & Hernández TD (2011). Acupressure as a non-pharmacological intervention for traumatic brain injury (TBI). *Journal of Neurotrauma*, 28, 21-34. doi: 10.1089/neu.2010.1515; PMID: 20979460.

Hogle JM, **Kaye JT**, & Curtin JJ (2010). Nicotine withdrawal increases threat-induced anxiety but not fear: neuroadaptation in human addiction. *Biological Psychiatry*, 68, 719-725. doi: 10.1016/j.biopsych.2010.06.003; PMID: 20673878; PMCID: PMC2949532.

## MANUSCRIPTS (preprints, under review, and in preparation)

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**Kaye JT**, Johnson AL, Piper ME, Baker TB, & Cook JW (*revision under review*). Smoking cessation outcomes for binge drinking smokers using varenicline, nicotine patch, or combination nicotine replacement therapy.

**Kaye JT**, Beckham JC, Baker TB, & Cook JW (*in prep*). Tobacco withdrawal in smokers with posttraumatic stress disorder and depression.

## STUDY PREREGISTRATIONS

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**Kaye JT** & Curtin JJ (2016). Noradrenergic alpha-1 mechanisms of stress reactivity in humans. doi: 10.17605/osf.io/m8jmpl; Preregistration available at Open Science Framework: <https://osf.io/m8jmpl/>

Curtin JJ & **Kaye JT** (2017). Randomized controlled trial targeting noradrenergic stress mechanisms in alcoholism with doxazosin. Preregistration available at Open Science Framework: <https://osf.io/kwn24/>

## PAPER PRESENTATIONS AND CHAIRED SYMPOSIA

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**Kaye JT**, Piper ME, Baker TB, & Cook JW (2019). Smoking cessation outcomes for heavy drinking smokers using varenicline, nicotine patch, or combination nicotine replacement therapy. Paper presented at the 25<sup>th</sup> annual meeting of the Society for Research on Nicotine and Tobacco, San Francisco, CA.

**Kaye JT** & Weinberg A (2018). Open science: from pre-registration to replication to data sharing. Invited symposium co-chaired at the 58<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Quebec City, Canada.

**Kaye JT** (2018). Targeting noradrenergic stress mechanisms in addiction with prazosin and doxazosin. Invited paper presented at Center for Tobacco Research and Intervention, University of Wisconsin School of Medicine and Public Health, Madison, WI.

**Kaye JT** (2018). Noradrenergic stress mechanisms in addiction. Presentation at William S. Middleton Memorial VA Hospital mental health brown bag, Madison, WI.

**Kaye JT** (2016). Psychometric challenges for psychophysiology in the age of RDoC. Symposium chaired at the 56<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Minneapolis, MN.

**Kaye JT, Bradford DE, & Curtin JJ (2016).** Psychometric properties and inter-task/measure relationships of startle and corrugator responses in NPU, affective picture viewing, and resting state tasks. Paper presented at the 56<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Minneapolis, MN.

## POSTER PRESENTATIONS

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\* Received Poster Award

**Kaye JT, Piper ME, Baker TB, & Cook JW (2019).** Searching for personalized medicine for heavy drinking smokers: smoking cessation using varenicline, nicotine patch, or combination nicotine replacement therapy. Poster presented at the 42<sup>nd</sup> annual meeting of the Research Society on Alcoholism, Minneapolis, MN.

**Kaye JT, Fronk GE, Zgierska AE, Cruz MR, Rabago D, & Curtin JJ (2019).** Acute prazosin administration does not reduce stressor reactivity in healthy adults. Poster presented at the 74<sup>th</sup> annual meeting of the Society of Biological Psychiatry, Chicago, IL.

**Cook JW, Kaye JT, & Baker TB (2019).** Withdrawal symptoms during 48-hour nicotine deprivation in smokers with PTSD, depression, and non-diagnosed controls. Paper presented at the 25<sup>th</sup> annual convention of the Society for Research on Nicotine and Tobacco, San Francisco, CA.

**Kaye JT, Fronk GE, Williams HM, Zgierska AE, Cruz MR, Rabago D, & Curtin JJ (2018).** Effects of acute prazosin administration on startle potentiation during unpredictable versus predictable stressors in humans. Poster presented at the 58<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Quebec City, Canada.

**Magruder KP, Kaye JT, Fleming MN, Kayser AD, Schneck SS, & Curtin JJ (2018).** The NPU task: evaluating a surrogate endpoint for stress mechanisms in research on smoking cessation interventions. Poster presented at the 58<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Quebec City, Canada.

**Bradford DE, Kaye JT, & Curtin JJ (2016).** The relationships among multiple psychophysiological and self-report measures of negative affect indexed across multiple tasks with then same sample. Poster presented at the 56<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Minneapolis, MN.

\* **Kaye JT, Bradford DE, & Curtin JJ (2016).** Psychometric properties of psychophysiological paradigms in the NIMH RDoC: Startle and corrugator response in NPU, Affective Picture Viewing and Resting State tasks. Poster presented at the 28<sup>th</sup> annual convention of the Association for Psychological Science, Chicago, IL.

**Kaye JT, Bradford DE, & Curtin JJ (2016).** Psychometric properties of startle response modulation in three tasks from the NIMH RDoC Negative Valence System. Poster presented at the 3<sup>rd</sup> annual conference of the Society for Affective Science, Chicago, IL.

**Kaye JT, Schneck SE, Kayser AD, Bradford DE, & Curtin JJ (2016).** Affective picture viewing task: Psychometric properties of startle and corrugator potentiation. Poster presented at the Wisconsin Symposium on Emotion, Madison, WI.

**Kaye JT, Kayser AD, Schneck SE, Bradford DE, & Curtin JJ (2016).** No shock, predictable shock, unpredictable shock (NPU) task: Psychometric properties of startle and corrugator potentiation. Poster presented at the Wisconsin Symposium on Emotion, Madison, WI.

**Kaye JT**, Bradford DE, Rohrer CT, Hamilton RKB, Kayser AD & Curtin JJ (2015). Temporal stability of startle modulation during threat-of-shock versus affective picture viewing tasks. Poster presented at the 55<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Seattle, WA.

**Kaye JT** & Curtin JJ (2014). Repurposing norepinephrine antagonists for drug addiction treatment: A novel translational laboratory biomarker approach. Poster presented at the 20<sup>th</sup> annual Wisconsin Symposium on Emotion, Madison, WI.

**Kaye JT** & Curtin JJ (2014). Repurposing norepinephrine antagonists for drug addiction treatment: A novel translational laboratory biomarker approach. Poster presented at the Symposium on Therapeutics Discovery and Development, UW Institute of Clinical and Translational Research, Madison, WI.

**Kaye JT**, Shi FY, Baker TB, & Curtin JJ (2013). Nicotine deprivation induces negative affect to actual cigarettes but not pictures of cigarettes. Poster presented at the 53<sup>rd</sup> annual meeting of the Society for Psychophysiological Research, Florence, Italy.

Henry EA, Bryan AD, **Kaye JT**, & Ito TA (2013). On the liking and wanting of cannabis: examining the joint effects of attitudes and cue reactivity among cannabis users. Poster presented at the 53<sup>rd</sup> annual meeting of the Society for Psychophysiological Research, Florence, Italy.

**Kaye JT**, Williams WC, Hachiya LY, Bradford DE, & Curtin JJ (2011). Affective response to differential threat probabilities is unaffected by nicotine deprivation. Poster presented at the 51<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Boston, MA.

\* Bradford DE, **Kaye JT**, & Curtin JJ (2011). Not just noise: Individual differences in baseline startle are anxiety relevant. Poster presented at the 51<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Boston, MA.

McFadden KL, Healy KM, Dettmann ML, **Kaye JT**, Ito TA, Distel DF, Faes N, & Hernández TD (2011). Acupressure's efficacy as a non-pharmacological intervention for traumatic brain injury (TBI). Poster presented at the 22<sup>nd</sup> annual meeting of the American Neuropsychiatric Association, Denver, CO.

**Kaye JT**, Busch JTA, & Ito TA (2010). Enhanced Attentional Bias to Visual Marijuana Cues in Smokers Indicated by Event-Related Potentials. Poster presented at the 4<sup>th</sup> annual meeting of the Social and Affective Neuroscience Society, Chicago, IL.

\* **Kaye JT**, & Ito TA (2010). Differential Marijuana Cue Reactivity in the Late-Positive Potential in Smokers and Non-Smokers. Poster presented at the 50<sup>th</sup> annual meeting of the Society for Psychophysiological Research, Portland, OR.

**Kaye JT**, & Ito TA (2009). Response Inhibition and Error Monitoring Deficits Associated with Marijuana Use. Poster presented at the 3<sup>rd</sup> annual meeting of the Social and Affective Neuroscience Society, New York City, NY.

**Kaye JT**, Hogle JM, & Curtin JJ (2007). Negative Affect During Nicotine Withdrawal: Effects on Anxiety vs. Fear. Poster presented at the 9<sup>th</sup> annual Undergraduate Symposium, Madison, WI.

Hogle MJ, Curtin JJ, & **Kaye JT** (2007). Negative Affect During Nicotine Withdrawal: Insights from Explicit-cue and Contextual Fear Conditioning Models. Poster presented at the 13<sup>th</sup> annual meeting of the Society for Research on Nicotine and Tobacco, Austin, TX.

Curtin JJ, Hogle JM, & **Kaye JT** (2007). Negative Affect During Nicotine Withdrawal: Insights from Explicit-cue and Contextual Fear Conditioning Models. Poster presented at the Keystone Symposium on the Neurobiology of Addiction, Santa Fe, NM.

## RESEARCH EXPERIENCE

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- 2018-present Postdoctoral Fellow  
VA Interprofessional Advanced Fellowship in Addiction Treatment  
Center for Tobacco Research and Intervention, UW School of Medicine and Public Health  
William S. Middleton Memorial Veterans Hospital  
Mentor: Jessica Cook, PhD
- 2010-2017 Graduate Research Assistant and NSF/NIH Fellow  
Addiction Research Center, University of Wisconsin-Madison  
Mentor: John Curtin, PhD
- 2008-2010 Professional Research Assistant  
Social Neuroscience Lab, University of Colorado at Boulder  
Stereotype and Prejudice Lab, University of Colorado at Boulder  
Mentor: Tiffany Ito, PhD
- 2004-2007 Undergraduate Research Assistant  
Addiction Research Lab, University of Wisconsin-Madison  
Mentor: John Curtin, PhD
- 2007 Undergraduate Research Assistant  
Center for Tobacco Research and Intervention, UW School of Medicine and Public Health  
Mentor: Douglas Jorenby, PhD
- 2005 Undergraduate Research Assistant  
Depression Research Lab, University of Wisconsin-Madison  
Mentors: Lyn Abramson, PhD & Robin Nusslock, PhD

## HONORS & AWARDS

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- 2019 National Psychologist Trainee Register Credentialing Scholarship: \$300
- 2016 Student Poster Award, Society for a Science of Clinical Psychology (SSCP): \$250
- 2016 UW-Madison Graduate School, Conference Presentation Fund: \$1200
- 2013 UW Schwartz Fellowship – Cognitive & Experimental Psychology Research: \$2,500
- 2011 University of California-Davis – Event-related Potential (ERP) Bootcamp Scholarship
- 2010 Student Poster Award, Society for Psychophysiology Research (SPR) Conference: \$300
- 2010-2016 UW Hertz Foundation Research Travel Award: \$500-\$750/year
- 2007 UW University Bookstore Academic Excellence Award: \$1,000
- 2007 UW Psi Chi Outstanding Research Paper Award: \$50
- 2007 UW-Madison Comprehensive Honors in the Major and the Liberal Arts

## CLINICAL EXPERIENCE

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- 2017-present William S. Middleton Memorial Veterans Hospital  
PTSD Clinical Team, Mental Health Clinic, Addictive Disorders Treatment Program, Health Psychology

Supervisors: Heidi Sigmund, PsyD, Amanda Bohlig, PhD, Valerie Maine, PsyD, James Lickel, PhD, & Michael Messina, PhD

- 2017      Addiction Research Center, University of Wisconsin – Madison  
Supervisors: Chris Gioia, PhD & John Curtin, PhD
- 2016-2017      School of Pharmacy, University of Wisconsin – Madison  
Supervisor: Chris Gioia, PhD
- 2012-2016      Psychology Research and Training Clinic  
Department of Psychology, University of Wisconsin – Madison  
Supervisors: Linnea Burk, PhD, Chris Gioia, PhD, Lea Aschkenase, PhD, & Shay Stacer, PhD
- 2014-2015      William S. Middleton Memorial Veterans Hospital  
Addictive Disorders Treatment Program  
Supervisor: Valerie Ahl, PhD
- 2012-2014      Couples Clinic, Psychology Research and Training Clinic  
Department of Psychology, University of Wisconsin – Madison  
Supervisors: Al Gurman, PhD & Shay Stacer, PhD
- 2012-2013      Access Community Health Centers  
Supervisor: Chantelle Thomas, PhD & Beth Zeidler-Schreiter, PsyD
- 2011-2012      Center for Tobacco Research and Intervention, UW School of Medicine and Public Health  
Supervisors: James Davis, MD & Douglas Jorenby, PhD
- 2006-2007      Center for Tobacco Research and Intervention, UW School of Medicine and Public Health  
Supervisors: Douglas Jorenby, PhD

## **PROFESSIONAL SERVICE**

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- 2017-2018      Program Committee, Society for Psychophysiology Research  
2013-2014      Student Representative, UW Psychology Research and Training Clinic

## **SELECTED MENTORING**

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- 2014      Charles Rohrer. Test-retest reliability of physiological indices of affective state in the NPU-threat and IAPS tasks. Senior Honors Thesis and UW Hilldale Fellowship.
- 2012      Charles Rohrer. Effects of Nicotine Deprivation on Anxiety in Chronic Smokers. Biology course independent research project.

## **TEACHING**

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- Fall 2012 -      Lab Instructor  
Spring 2013      Statistical Analysis of Psychological Experiments: The General Linear Model (Graduate Course)  
Department of Psychology, University of Wisconsin-Madison  
Professors: John Curtin, PhD & Markus Brauer, PhD

## STATISTICAL AND METHODOLOGICAL SKILLS

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- Computer Programming & Statistical Software: R, MATLAB (Psychophysics Toolbox, EEGLAB, PhysBox), SPSS
- Psychophysiology Methodology: EEG/ERP, facial EMG, eye-blink startle, skin conductance

## PROFESSIONAL AFFILIATIONS

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2007, 2019	Society for Research on Nicotine and Tobacco (SRNT)
2019-present	Research Society on Alcoholism (RSA)
2011-present	Society for a Science of Clinical Psychology (SSCP)
2010-present	Society for Psychophysiological Research (SPR)
2017-2018	American Society of Clinical Psychopharmacology (ASCP)
2011-2017	Association for Psychological Science (APS)
2016-2017	Society for Affective Science (SAS)
2011-2015	American Psychological Association (APA)
2009-2011	Social and Affective Neuroscience Society (SANS)
2006-2007	Psi Chi- National Honors Society in Psychology

## EDITOR AND REVIEWER SERVICE

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Editor:

*PLOS ONE (Academic Editor)*

Reviewer (ad hoc):

*Addictive Behaviors*

*Clinical Psychological Science*

*Frontiers in Behavioral Neuroscience*

*International Journal of Psychophysiology*

*Journal of Abnormal Psychology*

*Journal of Psychiatric Research*

*Motivation and Emotion*

*Psychopharmacology*

*Psychophysiology*

*PLOS ONE*

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