

GREGORY J. MADDEN, Ph.D.

DEPARTMENT OF PSYCHOLOGY, UTAH STATE UNIVERSITY
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EDUCATION

- 1992-1995 **West Virginia University**, Department of Psychology
Doctor of Philosophy; Advisor: Michael Perone
- 1989-1992 **University of North Texas**, Department of Behavior Analysis
Master's of Science; Advisor: Cloyd Hyten
- 1983-1987 **University of North Texas**, Department of Psychology
Bachelors of Science: Cum Laude

Post-Doctoral Training

- 1995-1998 **University of Vermont**, Human Behavioral Pharmacology Lab
Post-Doctoral Training Fellowship; Supervisor: Warren K. Bickel

AWARDS & NOTEABLE APPOINTMENTS

- 2020 **D. Wynne Thorne Career Research Award**, Utah State University
- 2017-2023 **NIH Study Section Member**, Biobehavioral Regulation, Learning & Ethology
- 2017-2019 **President**, Society for the Experimental Analysis of Behavior
- 2003-2020 **Board Member**, Society for the Experimental Analysis of Behavior
- 2011-2015 **Editor in Chief**, *Journal of the Experimental Analysis of Behavior*
- 2014 **Robbins Award**, Researcher of the Year, Utah State University
- 2014 **Emma Eccles Jones College of Education**, Researcher/Scholar of the Year, Utah State University
- 2014 **Fellow**, Association for Behavior Analysis International
- 2010-2013 **Executive Council Member**, Association for Behavior Analysis International (elected position)
- 2013 **Citation Award**, *Journal of Nutrition Education & Behavior*
- 2011-2012 **G. Stanley Hall Lecturer**, American Psychological Association, Division 2
- 2009 **ING Excellence in Teaching Award**, University of Kansas
- 2002-2008 **Associate Editor**, *Journal of the Experimental Analysis of Behavior*
- 2005 **Citation Award**, *Psychopharmacology*

FACULTY APPOINTMENTS

- 2012-present **Professor**, Utah State University, Department of Psychology
- 2010-2012 **Associate Professor**, Utah State University, Department of Psychology
- 2005-2010 **Associate Professor**, University of Kansas, Department of Applied Behavioral Science
Promotion to Professor approved in 2010
- 2002-2005 **Associate Professor**, University of Wisconsin – Eau Claire, Department of Psychology
- 1998-2002 **Assistant Professor**, University of Wisconsin – Eau Claire, Department of Psychology

EXTRAMURAL FUNDING (> \$6,500,000)

- Anticipated **Principal Investigator: NIH (NIDA), R03 DA052467-01 (\$144,801)**, A conditioned reinforcement approach to improving self-control. Anticipated – top 1% priority score.
- 2020-2023 **Co-Investigator: NSF \$1,200,000, SCC-IRG Track 2, Smart air: Informing driving behavior through dynamic air-quality sensing and smart messaging; subcontract to USU \$157,013.**
- 2018-2020 **Principal Investigator: NIH (NIDA), R03 DA044927-01 (\$143,000)**, Delay-exposure training and allomorphic choice
- 2016-2019 **Principal Investigator: NIH (NIDA), R21 DA042174-01 (\$387,663)**, Delay-exposure training produces large and lasting reductions in delay discounting: Why?
- 2016-2019 **Principal Investigator: NIH (NICHD), R21 HD083702-01A1 (\$376,896)** Increasing Fruit and Vegetable Intake among Children.
- 2015-2017 **Co-Investigator: NIH (NIDA), R21 DA038950 (\$381,810)**, Resurgence of Punishment-Suppressed Cocaine Seeking; Tim Shahan, PI.

2014-2017 **Co-Investigator: NIH (NIDA), R21 DA037725 (\$347,000)**, Theory of Resurgence and Cocaine Seeking; Tim Shahan, PI.

2011-2015 **Co-Investigator: NIH (NIDA), 1RO1 DA029100 (\$1,400,000)**, Understanding Delay Discounting in Cigarette Smokers; Amy Odum, PI.

2010-2015 **Principal Investigator: NIH (NIDA) 1RO1 DA029605 (\$966,339)**, Experimental Manipulations of Impulsivity: Effects on Gambling and Drug Taking.

2012-2014 **Principal Investigator: USDA, Supplement to 59-5000-1-0033 (\$120,000)**, Increasing the practicality of the Food Dudes healthy eating program.

2011-2013 **Principal Investigator: USDA, 59-5000-1-0033 (\$155,399)**, Long-term Effects of Incentivizing Fruit and Vegetable Consumption.

2010-2013 **Principal Investigator: USDA, 59-5000-0-0065 (\$350,000)**, Incentivizing Fruit and Vegetable Consumption.

2007-2011 **Principal Investigator: NIH (NIDA) R21 DA023564-01A1 (\$393,000)**, Impulsivity, Dopamine, and the Behavioral Economics of Gambling.

2003-2005 **Principal Investigator: NIH (NIDA) R15 DA016569-01 (\$133,940)**, Behavioral Economics of Closed Economies.

2000-2002 **Principal Investigator: NIH (NIDA) R03 DA13575-01 (\$63,669)**, Impulsivity: Discounting the Benefits of Drug Abstinence

Grant Consulting

2016-2018 **NSF grant (\$465,892)** awarded to Jacob Freeman, Jacopo Baggio (Utah State University) and Thomas Coyle (UT-San Antonio).

2012-2015 **NIH grant (\$676,424)** awarded to Ginger Lockhart & Christian Geiser (Utah State University).

Recent Proposals

2020 **DHHS Discovery Award**, The economics of extinction. Consultant

2021 **NIH COBRE grant**, Center on Behavioral and Psychosocial Health; University of Kansas. Consultant

2021 **NSF**, Smart Water: Enhancing surface water sustainability and protecting human health through smart sensing and the internet of things. PI: Ramesh Goel; University of Utah. USU Subcontract.

EDITED BOOKS

2010 Madden, G. J., & Bickel, W.K. (Eds., 2010)¹. *Impulsivity: The Behavioral and Neurological Science of Discounting*. Washington, D.C.: American Psychological Association (453 pp).

2013 Madden, G. J. (Ed.-in-Chief), Dube, W. V., Hackenberg, T., Hanley, G. P., & Lattal, K. A. (Assoc. Eds). (2013)². *APA handbooks in psychology: APA Handbook of behavior analysis, Volume. 1: Methods and principles*. Washington, DC: American Psychological Association.

2013 Madden, G. J. (Ed.-in-Chief), Dube, W. V., Hackenberg, T., Hanley, G. P., & Lattal, K. A. (Assoc. Eds). (2013). *APA handbooks in psychology: APA Handbook of behavior analysis, Volume. 2: Translating principles into practice*. Washington, DC: American Psychological Association.



¹ Reviews:

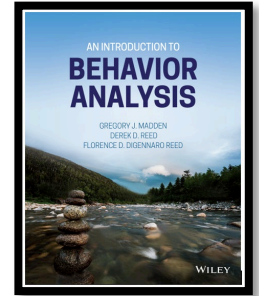
- Perma, R. B. (2010). Impulsivity, shortsighted decisions, and discounting. *PsycCRITIQUES*, 55, Article 1.
- Weatherly, J. N., & Dixon, M. R. (2011). The why behind the smaller-sooner. *The Psychological Record*, 61, 633-644.

² Reviews:

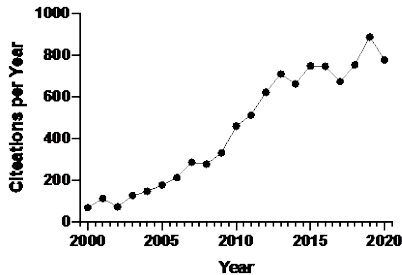
- Kazdin, A. E. (2013). Behavior Analysis: Remarkable progress in basic and applied research in understanding and altering complex behavior. *PsycCRITIQUES*.

TEXTBOOK

Madden, G.J., Reed, D. D., & DiGennaro-Reed, F. D. (2021). *An Introduction to Behavior Analysis*. First edition. Chichester, England: Wiley.



PEER-REVIEWED PUBLICATIONS



Research Impact Metrics

(<http://scholar.google.com/citations?user=ocUoaLUAAA&hl=en>)

h-index = 44 (Number of articles receiving h or more citations)

h-index since 2016 = 31

Total Citations: >9,700 (>3,900 since 2016); Most citations for a single article: >1,500 (2nd most cited: >1,000); Number of papers cited 100+ times: 19

* Graduate Student Coauthor

** Undergraduate Student Coauthor

1. Stein, J. S., & Madden, G. J. (in press). Choice bundling, unpacked: Observed and predicted effects of bundle size on intertemporal choice in an additive model of hyperbolic delay discounting. *PLoS ONE*.
2. Rauwolf, P. Millard, S., Wong, N., Witt, A., Davies, T. J., Cahill, A., Madden, G. J., Parkinson, J., & Rogers, R. D. (in press). 'Just not knowing' can make life sweeter (and saltier): Reward uncertainty alters the sensory experience and consumption of palatable food and drinks. *Journal of Experimental Psychology: General*.
3. *Morrison, K. L., *Smith, B. M., Ong, C. W., Lee, E. B., Friedel, J. E., Odum, A., Madden, G. J., Ledermann, T., *Rung, J., & Twohig, M. P. (2020). Effects of acceptance and commitment therapy on impulsive decision-making. *Behavior Modification*, 44 (4), 600-623.
4. *Peck, S., *Rung, J. M., *Hinnenkamp, J. E., & Madden, G. J. (2020). Reducing impulsive choice: VI: Delay-exposure training reduces aversion to delay-signaling stimuli. *Psychology of Addictive Behaviors*, 34(1), 147-155.
5. *Renda, C.R., *Rung, J.M., *Peck, S., & Madden, G. J. (2020). Reducing impulsive choice VII: Effects of duration of delay-exposure training. *Animal Cognition*, 1-11. doi: 10.1007/s10071-020-01412-0
6. *Cole, D., *Rung, J. M., & Madden, G. J. (2019). Assessing susceptibility of a temporal discounting task to faking. *Journal of Clinical Psychology*, 75, 1959-1974. doi: 10.1002/jclp.22831
7. *Joyner, D., Wengreen, H., Aguilar, S., & Madden, G. J. (2019). Effects of the FIT Game on physical activity of sixth graders: A pilot reversal design intervention study. *JMIR Serious Games*, 7, e13051. doi: 10.2196/13051
8. *Rung, J. M., *Peck, S., *Hinnenkamp, J., *Preston, E., & Madden, G. J. (2019). Changing delay discounting and impulsive choice: Implications for addictions, prevention, and human health. *Perspectives on Behavioral Science*, 3, 397-417.
9. *Rung, J. M. & Madden, G. J. (2019). Demand characteristics in episodic future thinking II: Mechanisms of change in delay discounting. *Experimental and Clinical Psychopharmacology*, 27, 482-495.
10. *Renda, C.R., *Rung, J.M., *Hinnenkamp, J. E., **Lenzini, S.L., & Madden, G. J. (2018). Impulsive choice and pre-exposure to delays IV: Effects of delay- and immediacy-exposure training relative to maturational changes in impulsivity. *Journal of the Experimental Analysis of Behavior*, 109, 587-599.
11. *Rung, J. M., **Argyle, T. M., **Siri, J., & Madden, G. J. (2018). Choosing the right delay-discounting task: Completion times and rates of nonsystematic data. *Behavioural Processes*, 151, 119-125.
12. *Rung, J. M., Johnson, P. S., & Madden, G. J. (2018). Differential relations between delay discounting and distress tolerance as a function of opportunity cost and alcohol use. *Experimental and Clinical Psychopharmacology*, 26, 278-289.
13. *Rung, J. M., & Madden, G. J. (2018). Demand characteristics in episodic future thinking: Delay discounting and healthy eating. *Experimental and Clinical Psychopharmacology*, 26(1), 77-84.
14. *Rung, J. M., & Madden, G. J. (2018). Experimental reductions of delay discounting and impulsive choice: A systematic review and meta-analysis. *Journal of Experimental Psychology: General*, 147, 1349-1381.
15. *Rung, J. M., Buhusi, C. V., & Madden, G. J. (2018). Reducing impulsive choice V: The role of interval timing. *Behavioural Processes*, 157, 557-561.

16. *Joyner, D., Wengreen, H.J., Aguilar, S., Anderson Spruance, L., *Morrill, B. A., & Madden, G. J. (2017). The FIT Game III: Reducing the operating expenses of a game-based approach to increasing healthy eating in elementary schools. *Games for Health Journal: Research, Development, and Clinical Applications*, 6, 111-118.
17. *Hinnenkamp, J., Shahan, T. A., & Madden, G. J. (2017). How suboptimal is suboptimal choice? *Journal of the Experimental Analysis of Behavior*, 107, 136-150.
18. Madden, G. J., Price, J., & *Sosa, F. A. (2017). Behavioral economic approaches to influencing children's dietary decision-making at school. *Policy Insights from the Behavioral and Brain Sciences*, 4, 41-48.
19. *Smith, B.M., Smith, G.S., Shahan, T.A., Madden, G.J., & Twohig, M.P. (2017). Effects of differential rates of alternative reinforcement on resurgence of human behavior. *Journal of the Experimental Analysis of Behavior*, 107, 191-202.
20. Wengreen, H. J., *Nix, E., & Madden, G. J. (2017). The effect of social norms messaging regarding skin carotenoid concentrations among college students. *Appetite*, 116, 39-44.
21. *Renda, C.R., & Madden, G.J. (2016). Impulsive choice and pre-exposure to delays III: Four-month test-retest outcomes in male Wistar rats. *Behavioural Processes*, 126, 108-112.
22. *Craig, A., *Nall, R., Madden, G. J., & Shahan, T.S. (2016). Higher rate alternative non-drug reinforcement produces faster suppression of cocaine seeking but more resurgence when removed. *Behavioral and Brain Research*, 306, 48-51.
23. *Morrill, B. A., Madden, G. J., Wengreen, H. J., Fargo, J. & Aguilar, S. S. (2016). A randomized-control trial of the Food Dudes program: Tangible rewards are more effective than social rewards for increasing short- and long-term fruit and vegetable consumption. *Journal of the Academy of Nutrition and Dietetics*, 116, 618-629.
24. *Renda, C. R., *Stein, J. S., & Madden, G. J. (2015). Working-memory training: Effects on delay discounting in male Long Evans rats. *Journal of the Experimental Analysis of Behavior*, 103, 50-61.
25. *Stein, J. S., *Renda, C. R., **Barker, S.M., **Liston, K.J., Shahan, T.A., & Madden, G. J. (2015). Impulsive choice predicts anxiety-like behavior, but not alcohol or sucrose consumption, in male Long-Evans rats. *Alcoholism, Clinical and Experimental Research*, 39, 932-940.
26. *Stein, J. S., *Renda, C. R., *Hinnenkamp, J., & Madden, G. J. (2015). Impulsive choice, alcohol consumption, and pre-exposure to delayed rewards II: Potential mechanisms. *Journal of the Experimental Analysis of Behavior*, 103, 33-49.
27. Aguilar, S. S., Wengreen, H. J., Lefevre, M., Madden, G. J., & Gast, J. (2014). Skin carotenoids: A biomarker of fruit and vegetable intake in children. *Journal of the Academy of Nutrition and Dietetics*, 114, 1174-1180.
28. *Craig, A. R., **Maxfield, A. D., *Stein, J. S., *Renda, C. R., & Madden, G. J. (2014). Do the adjusting- and increasing-delay tasks measure the same construct: Delay discounting? *Behavioural Pharmacology*, 25, 306-315.
29. *Friedel, J. E., *DeHart, W. B., Madden, G. J., & Odum, A. L. (2014). Impulsivity and cigarette smoking: Discounting of monetary and consumable outcomes in current and never smokers. *Psychopharmacology (Berlin)*, 231, 4517-4526.
30. *Jones, B. A., Madden, G. J., & Wengreen, H. J. (2014). The FIT Game: Preliminary evaluation of a gamification approach to increasing fruit and vegetable consumption in school. *Preventive Medicine*, 68, 76-79.
31. *Jones, B. A., Madden, G. J., Wengreen, H. J., Aguilar, S. S., & Desjardins, E. A. (2014). Gamification of dietary decision-making in an elementary school cafeteria. *PLoS ONE*, 9(4), e93872. doi:10.1371/journal.pone.0093872
32. *Morrison, K. L., Madden, G. J., Odum, A. L., *Friedel, J. E., & Twohig, M. P. (2014). Altering impulsive decision making with an acceptance-based procedure. *Behavior Therapy*, 45, 630-639.
33. *Renda, C. R., *Stein, J. S., & Madden, G. J. (2014). Impulsive choice predicts poor working memory in male rats. *PLoS ONE*, 9(4), e93263. doi: 10.1371/journal.pone.0093263
34. *Johnson, P. S., *Stein, J. S., *Smits, R. R., & Madden, G. J. (2013). Pramipexole-induced disruption of behavioral processes fundamental to intertemporal choice. *Journal of the Experimental Analysis of Behavior*, 99, 290-317.
35. *Smits, R. R., *Stein, J. S., *Johnson, P. S., Odum, A. L., & Madden, G.J. (2013). Test-retest reliability and construct validity of the experiential discounting task. *Experimental and Clinical Psychopharmacology*, 21, 155-163.
36. *Stein, J. S., *Johnson, P. S., *Smits, R. R., *Renda, R., **Liston, K. J., Shahan, T. S., & Madden, G. J. (2013). Early and prolonged exposure to reward delay: Effects on impulsive choice and alcohol self-administration in male rats. *Experimental and Clinical Psychopharmacology*, 21, 172-180.
37. *Stein, J. S., *Smits, R. R., *Johnson, P. S., **Liston, K. J., & Madden, G. J. (2013). Effects of reward bundling on male rats' preference for larger-later food rewards. *Journal of the Experimental Analysis of Behavior*, 99, 150-158.
38. Wengreen, H., Madden, G. J., Aguilar, S., *Smits, R. R., & *Jones, B. A. (2013). Incentivizing children's fruit and vegetable consumption: Results of a US pilot-study of the Food Dudes program. *Journal of Nutrition, Education, & Behavior*, 45, 54-59.

39. *Johnson, P. S., Madden, G. J., & *Stein, J. S. (2012). Effects of acute pramipexole on male rats' preference for gambling-like rewards II. *Experimental and Clinical Psychopharmacology*, *20*, 167-172.
40. *Stein, J. S., Pinkston, J. W., *Brewer, A. T., *Francisco, M. T., & Madden, G. J. (2012). Delay discounting in Lewis and Fischer 344 rats: Implications for the use of an adjusting-amount procedure to detect between-strain differences. *Journal of the Experimental Analysis of Behavior*, *97*, 305-321.
41. Madden, G. J., *Francisco, M. T., *Brewer, A. T., & *Stein, J. S. (2011). Delay discounting and gambling. *Behavioural Processes*, *87*, 43-49.
42. *Johnson, P., Madden, G. J., *Brewer, A. T., Pinkston, J. W., & Fowler, S. C. (2011). Effects of acute pramipexole on preference for gambling-like schedules of reinforcement in rats. *Psychopharmacology (Berl)*, *213*, 11-18.
43. Madden, G. J., *Johnson, P., *Brewer, A., Pinkston, J. W., & Fowler, S. C. (2010). Effects of pramipexole on impulsive choice in male Wistar rats. *Experimental and Clinical Psychopharmacology*, *18*, 267-276.
44. Madden, G. J., & Kalman, D. (2010). Effects of bupropion on simulated demand for cigarettes and the subjective effects of smoking. *Nicotine and Tobacco Research*, *12*, 416-422.
45. *Francisco, M. T., Madden, G. J., & Borrero, J. B. (2009). Behavioral economics: Principles, procedures, and utility for applied behavior analysis. *The Behavior Analyst Today*, *10* (Special Issue on Translational Research), 277-293.
46. Madden, G. J., Petry, N. M., & *Johnson, P. (2009). Pathological gamblers discount probabilistic rewards at lower rates than matched controls. *Experimental & Clinical Psychopharmacology*, *17*, 283-290.
47. Madden, G. J. (2009). Discounting within the gambling context. *Analysis of Gambling Behavior*, *2*, 93-98.
48. Roll, J. M., Madden G. J., Rawson, R., & Petry, N. M. (2009). Facilitating the adoption of contingency management for the treatment of substance use disorders. *Behavior Analysis and Practice*, *2*, 4-14.
49. Chase, P. N., Ellenwood, D. W., & Madden, G. J. (2008). A behavior analytic analogue of learning to use synonyms, syntax, and parts of speech. *Analysis of Verbal Behavior*, *24*, 31-54.
50. Madden, G. J., *Smith, N. G., *Brewer, A. T., Pinkston, J. W., & *Johnson, P. S. (2008). Steady-state assessment of impulsive choice in Lewis and Fischer 344 rats: Between-session delay manipulations. *Journal of the Experimental Analysis of Behavior*, *90*, 333-344.
51. Pinkston, J. W., Madden, G. J., & Fowler, S. C. (2008). Effects of darkness on apomorphine-induced pecking in pigeons. *Behavioral Pharmacology*, *19*, 347-352.
52. Pinkston, J. W., Ratzlaff, K. L., Madden, G. J., & Fowler, S. C. (2008). An inexpensive infrared detector to verify the delivery of food pellets. *Journal of the Experimental Analysis of Behavior*, *90*, 249-255.
53. Madden, G. J., **Smethells, J., **Ewan, E. E., & Hursh, S. R. (2007). Tests of behavioral economic assessments of relative reinforcer efficacy: Economic substitutes. *Journal of the Experimental Analysis of Behavior*, *87*, 219-240.
54. Madden, G. J., **Smethells, J., **Ewan, E. E., & Hursh, S. R. (2007). Tests of behavioral economic assessments of relative reinforcer efficacy II: Economic complements. *Journal of the Experimental Analysis of Behavior*, *88*, 355-367.
55. Madden, G. J., **Ewan, E. E., & **Lagorio, C.H. (2007). Toward an animal model of gambling: Delay discounting and the allure of unpredictable outcomes. *Journal of Gambling Studies*, *23*, 63-83.
56. Madden, G. J., & **Hartman, E. C. (2006). A steady-state test of the demand curve analysis of relative reinforcer efficacy. *Experimental and Clinical Psychopharmacology*, *14*, 79-86.
57. **Słowiak, J., Madden, G. J., & Matthews, R. (2006). The effects of a combined task clarification, goal setting, feedback, and incentive intervention package to improve telephone customer service in a medical clinic environment. *Journal of Organizational Behavior Management*, *25*, 15-35.
58. **Lagorio, C.H., & Madden, G. J. (2005). Delay discounting of real and hypothetical rewards III: Steady-state assessments, forced-choice trials, and all real rewards. *Behavioural Processes*, *69*, 173-187.
59. Madden, G. J., **Dake, J. M., **Mauel, E. C., & **Rowe, R. R. (2005). Labor supply and consumption of food in a closed economy under a range of fixed- and random-ratio schedules: Tests of unit price. *Journal of the Experimental Analysis of Behavior*, *83*, 99-118.
60. *Perry, J. L., *Larson, E. B., *German, J. P., Madden, G. J., & Carroll, M. E. (2005). Impulsivity (delay discounting) as a predictor of acquisition of i.v. cocaine self-administration in female rats. *Psychopharmacology*, *178*, 193-201.
61. Madden, G. J., **Raiff, B.R., **Lagorio, C. H., **Begotka, A. M., **Mueller, A.M., **Hehli, D. J., & **Wegener, A. A. (2004). Delay discounting of potentially real and hypothetical rewards II: Between- and within-subject comparisons. *Experimental and Clinical Psychopharmacology*, *12*, 251-261.
62. Madden, G. J., Klatt, K. P., Jewett, D. C., & Morse, L. A. (2004). A forgotten resource critical to the future of behavior analysis: Undergraduate psychology majors. *The Behavior Analyst*, *27*, 33-41.
63. Madden, G. J., **Begotka, A. M., **Raiff, B. R., & **Kastern L. L. (2003). Delay discounting of real and hypothetical rewards. *Experimental and Clinical Psychopharmacology*, *11*, 139-145.
64. Madden, G. J., & Perone, M. (2003). Effects of alternative reinforcement on human behavior: The source does matter. *Journal of the Experimental Analysis of Behavior*, *79*, 193-206.

65. **Harris, A. C., & Madden, G. J. (2002). Delay discounting and performance on the prisoner's dilemma game. *The Psychological Record*, 52, 429-440.
66. Madden, G. J., Peden, B. F., & **Yamaguchi, T. (2002). Human group foraging and the ideal free distribution. *Journal of the Experimental Analysis of Behavior*, 78, 1-15.
67. Odum, A. L., Madden, G. J., & Bickel, W. K. (2002). Discounting of delayed health gains and losses in current, never-, and ex-smokers of cigarettes. *Nicotine and Tobacco Research*, 4, 295-303.
68. Madden, G. J., Bickel, W. K., & Jacobs, E. A. (2000). Three predictions of the economic concept of unit price in a choice context. *Journal of the Experimental Analysis of Behavior*, 73, 45-64.
69. Odum, A. L., Madden, G. J., Badger, G. J., & Bickel, W. K. (2000). Needlesharing in opioid-dependent outpatients: Psychological processes underlying risk. *Drug and Alcohol Dependence*, 60, 259-266.
70. Bickel, W. K., & Madden, G. J. (1999). A comparison of measures of relative reinforcer efficacy and behavioral economics: Cigarettes and money in smokers. *Behavioural Pharmacology*, 10, 627-637.
71. Bickel, W. K., & Madden, G. J. (1999). Similar consumption and responding across single and multiple sources of drug. *Journal of the Experimental Analysis of Behavior*, 71, 299-316.
72. Bickel, W. K., Odum, A., L., & Madden, G. J. (1999). Impulsivity and cigarette smoking: Delay discounting in current, never, and ex-smokers. *Psychopharmacology*, 146, 447-454.
73. Madden, G. J., & Bickel, W. K. (1999). Abstinence and price effects on demand for cigarettes: A behavioral-economic analysis. *Addiction*, 94, 577-588.
74. Madden, G. J., Bickel, W. K., & Jacobs, E. A. (1999). Discounting of delayed rewards in opioid-dependent outpatients: Exponential or hyperbolic discounting functions? *Experimental and Clinical Psychopharmacology*, 7, 284-293.
75. Madden, G. J., & Perone, M. (1999). Human sensitivity to concurrent schedules of reinforcement: The role of schedule-correlated stimuli. *Journal of the Experimental Analysis of Behavior*, 71, 303-318.
76. Shahan, T. A., Bickel, W. K., Madden, G. J., & Badger, G. J. (1999). A comparison of the reinforcing efficacy of nicotine containing and de-nicotinized cigarettes. *Psychopharmacology*, 147, 210-216.
77. Bickel, W. K., Madden, G. J., & Petry, N. (1998). The price of change: The behavioral economics of drug dependence. *Behavior Therapy*, 29, 545-565.
78. Bickel, W. K., & Madden, G. J. (1998). The behavioral economics of smoking. *National Bureau of Economic Research Working Paper Series: 6444*. Cambridge, MA: National Bureau of Economic Research.
79. Madden, G. J., Chase, P. N., & Joyce, J. (1998). Making sense of sensitivity in the human-operant literature *The Behavior Analyst*, 21, 1-12.
80. Bickel, W. K., Madden, G. J., & DeGrandpre, R. J. (1997). Modeling the effects of combined behavioral and pharmacological treatment on cigarette smoking: Behavioral-economic analyses. *Experimental and Clinical Psychopharmacology*, 5, 334-343.
81. Madden, G. J., Petry, N., Badger, G. J., & Bickel, W. K. (1997). Impulsive and self-control choices in opiate-dependent patients and non-drug-using control participants: Drug and monetary rewards. *Experimental and Clinical Psychopharmacology*, 5, 256-262.
82. Mechner, F., Hyten, C., Field, D. P., & Madden, G. J. (1997). Using revealed operants to study the structure and properties of human operant behavior. *The Psychological Record*, 47, 45-68.
83. Glenn, S. S., & Madden, G. J. (1995). Units of interaction, evolution, and replication: Organic and behavioral parallels. *The Behavior Analyst*, 18, 237-251.
84. Hyten, C., Madden, G. J., & Field, D. P. (1994). Exchange delays and impulsive choice in adult humans. *Journal of the Experimental Analysis of Behavior*, 62, 225-233.
85. Hyten, C., & Madden, G. J. (1993). The scallop in human fixed-interval research: A review of problems with data description. *The Psychological Record*, 43, 471-500.

BOOK CHAPTERS

* Graduate student co-author

1. Madden, G. J., McClure, S., & Bickel, W. K. (2019). Collaborating to move laboratory findings into public health domains: Maxims for translational research. Chapter 7 in K. L. Hall, A. L. Vogel, & R. T. Croyle (Eds.). *Strategies for team science success: Handbook of evidence-based principles for cross disciplinary science and practical lessons learned from health researchers*. Springer (pp. 103-112).
 2. Madden, G. J., Price, J., & Wengreen, H. (2018). Change and maintaining change in school cafeterias: Economic and behavioral economic approaches to increasing fruit and vegetable consumption. *Proceedings of the Nebraska Symposium on Motivation*, Vol. 45. (pp. 101-125). NY: Springer Nature.
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3. Madden, G. J., Hanley, G. P., & Dougher, M. J. (2016). Clinical behavior analysis. In J. C. Norcross, G. R. VandenBos, & D. K. Freedheim (Eds.), *APA Handbook of Clinical Psychology, Volume 1. Roots and Branches*. (pp. 351-368). Washington DC: American Psychological Association.
4. *Stein, J.S., & Madden, G.J., & (2013). Delay discounting and drug abuse: Empirical, conceptual, and methodological considerations. In H. de Wit & J. MacKillop (Eds.), *The Wiley-Blackwell Handbook of Addiction Psychopharmacology*. Boston, MA: Wiley-Blackwell (pp. 165-208).
5. Hursh, S.R., Madden, G.J., Spiga, R., DeLeon, I., & *Francisco, M.T. (2013). The translational utility of behavioral economics: The experimental analysis of consumption and choice. In Madden, G. J. (Editor-in-Chief), Dube, W. V., Hanley, G. P. (Associate Editors). *APA Handbook of Behavior Analysis: Volume 2*. (pp. 191-224). Washington, DC: American Psychological Association.
6. Neef, N. A., Perrin, C. J., & Madden, G.J. (2013). Understanding and Treating ADHD. In Madden, G. J. (Editor-in-Chief), Dube, W. V., Hanley, G. P. (Associate Editors). *APA Handbook of Behavior Analysis: Volume 2*. (pp. 387-404). Washington, DC: American Psychological Association.
7. Madden, G. J. & *Johnson, P. S. (2010). A discounting primer. In G. J., Madden, & W. K., Bickel (Eds.), *Impulsivity: The Behavioral and Neurological Science of Discounting*. (pp. 11-37). Washington, DC: American Psychological Association.
8. Petry, N. M., & Madden, G. J. (2010). Discounting and pathological gambling. In G. J., Madden, & W. K., Bickel (Eds.), *Impulsivity: The Behavioral and Neurological Science of Discounting*. (pp. 273-294). Washington, DC: American Psychological Association.
9. Critchfield, T., & Madden, G. J. (2006). At the crossroads of time and action: A temporal discounting primer for prospective memory researchers. In J. Glickson & M.S. Myslobodsky (Eds.), *Timing the Future: The Case for a Time-Based Prospective Memory* (pp. 117-142). Hackensack, NJ: World Scientific.
10. Madden, G. J. (2000). A behavioral-economics primer. In W. K. Bickel & R. Vuchinich (Eds.), *Reframing Health Behavior Change with Behavioral Economics* (pp. 3-26). Mahwah, NJ: Lawrence Erlbaum & Associates.
11. Bickel, W. K., & Madden, G. J. (1999). The behavioral economics of smoking. In F. J. Chaloupka, M. Grossman, W. K. Bickel, & H. Saffer (Eds.), *The Economic Analysis of Substance Use and Abuse: An Integration of Econometric and Behavioral Economic Research* (pp. 31-61). Chicago, IL: University of Chicago Press.

NON-PEER REVIEWED PAPERS

1. Bickel, W. K., MacKillop, J., Madden, G. J., Odum, A. L., Yi, R. (2015). Experimental manipulations of delay discounting: An introduction to the special issue. *Journal of the Experimental Analysis of Behavior*, 103, 1-9.
 2. Dougher, M. J., Twohig, M., & Madden, G. J. (2014). Editorial: Basic and translational research in stimulus-stimulus relations. *Journal of the Experimental Analysis of Behavior*, 101, 1-9.
 3. Madden, G. J. (2013). At 100 volumes of JEAB, a brief discussion of change and the road ahead. *Journal of the Experimental Analysis of Behavior*, 100, 1-3.
 4. Madden, G. J. (2013). Go forth and be variable. *The Behavior Analyst*, 36, 137-143.
 5. Madden, G. J. (2013). Editorial: An anniversary and an inaugural issue. *Journal of the Experimental Analysis of Behavior*, 99, 125-128.
 6. Madden, G. J. (2012). Editorial: Lessons from JEAB to JEAB. *Journal of the Experimental Analysis of Behavior*, 97, 1-4.
 7. Madden, G. J. (2008). Ammunition for fighting a demand-side war on drugs: A review of Contingency Management in Substance Abuse Treatment. *Journal of Applied Behavior Analysis*, 41, 645-651.
 8. Petry, N.M., Madden, G.J., & Roll, J.M. (2007). The alloplastic nature of pathological gambling: Commentary on Dixon and Weatherly (2007). *Analysis of Gambling Behavior*, 1, 25-26.
 9. Madden, G. J. (2001). Old concerns revisited. *Behavioral and Brain Sciences*, 24, 543-544.
 10. Madden, G. J. (2001). Drug-intake regulation and the interplay between economic costs and benefits. *Experimental and Clinical Psychopharmacology*, 9, 148-150.
 11. Madden, G. J. (2001). The behavioral economics of drug abuse. *International Psychology Reporter*, 5, 9-11.
 12. Madden, G. J. (1999). A scholarly summary of the animal-learning literature. A review of *The Principles of Learning and Behavior*. 4th ed. *Contemporary Psychology*, 44, 156-157.
 13. Madden, G. J. (1998). The experimental analysis of consumption? A review of *Advances in Behavioral Economics*. Vol. 3. Edited by L. Green and J. H. Kagel. *The Behavior Analyst*, 21, 159-165.
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PUBLISHED ABSTRACTS

1. Wengreen, H., Joyner, D., Aguilar, S., Lockhart, G., & Madden, G. J. (2020). Does the FIT Game healthy eating program increase children's skin carotenoid concentrations? *Journal of the Academy of Nutrition & Dietetics*.
2. Wengreen, H., Joyner, D., Aguilar, S., Madden, G. J., & Obray, H. (2018). A randomized four school trial of the FIT Game healthy eating program. *Journal of the Academy of Nutrition & Dietetics*, 118, A161.
3. Madden, G. J. (2016). Reducing impulsivity with the aim of influencing substance abuse and health decision-making. *International Journal of Psychology*, 51, 67.
4. Ansu, V., Wengreen, J., Madden, G., & Bevan, S. (2015). Relationships between children's fruit and vegetable intake at and away from school. *Journal of the Academy of Nutrition and Dietetics*, 115, A85.
5. Fox, J., Wengreen, H., Madden, G., & Aquilar, S. (2015). Did prior participation in the Food Dudes program help children eat more fruits and vegetables under the new NSLP standards? *Journal of the Academy of Nutrition and Dietetics*, 115, A80.
6. Wengreen, H., Joyner, D., & Madden, G. (2015). FIT Game: A school-wide game-based fruit and vegetable intervention. *Journal of Nutrition Education and Behavior*, 47, S74.
7. Wengreen, H., Aguilar, S., Madden, G.J., & Jones, B. (2014). Do the new nutrition standards help students to consume more fruits and vegetables? *Journal of Nutrition Education and Behavior*, 46, S150-151.
8. Aguilar, S., Wengreen, H., LeFevre, M., & Madden, G. J. (2013). Skin carotenoids as a biomarker for fruit and vegetable intake in children. *Journal of Nutrition Education and Behavior*, 45, S66-67.
9. Wengreen, H., Aguilar, S., & Madden, G. J. (2013). Incentivizing children's intake of fruits and vegetables at school: A US evaluation of the Food Dudes program. *Journal of Nutrition Education and Behavior*, 45, S33.
10. Wengreen, H., Madden, G. J., & Aquilar, S. (2011). A successful school-based approach to increase fruit and vegetable intake among children. *Journal of the American Dietetic Association*, 111, A49.
11. *Perry JL, *Morgan AD, *Larson EB, Madden GJ, Carroll ME. (2004), Impulsivity (delay discounting) for food and cocaine in male and female rats selected for high and low saccharin intake. *Society for Neuroscience Abstracts*.
12. *Perry, JL., German, JP, Madden, GJ., & Carroll, ME. (2004). Impulsivity (delay discounting) as a predictor of cocaine self-administration in male and female rats. *International Journal of Psychology*, 39, 142-143.
13. *Perry JL, *Morgan AD, *Larson EB, Madden GJ, Carroll ME. (2003). Impulsivity (delay discounting) for food and cocaine in male and female rats selected for high and low saccharin intake. *Pharmacology, Biochemistry, & Behavior*.
14. *Larson EB, *Gremel CM, Carroll ME, Madden GJ. (2002). Impulsivity as a predictor of acquisition of cocaine self-administration. *Society for Neuroscience Abstracts*. Also published as a lay-language summary for the 2002 *Society for Neuroscience Press Book*
15. Madden, G. J., Bickel, W. K., & Hughes, J. R. (1999). Behavioral-economics of nicotine replacements: Dose, type, price, and income manipulations. *NIDA Research Monographs*, 179, 69.
16. Bickel, W. K., & Madden, G. J. (1999). Impulsivity and needle use: Delay discounting methods. *NIDA Research Monographs*, 179, 143.
17. Madden, G. J., Bickel, W. K., & Hughes, J. R. (1998). Economic factors affecting the use of nicotine replacements. *Pharmacology, Biochemistry, and Behavior*, 61, 153.
18. Madden, G. J., & Bickel, W. K. (1998). Effects of price increases and brief abstinence on cigarette smoking: Behavioral economic analysis. *NIDA Research Monographs*, 178, 65.
19. Madden, G. J. (1992). Biological and behavioral selection: Similar subprocesses? *Experimental Analysis of Human Behavior Bulletin*, 10, 3.

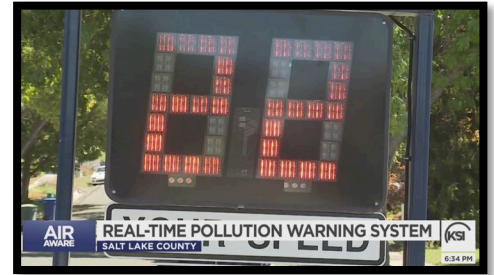
MANUSCRIPTS UNDER REVIEW OR IN PREPARATION

1. Joyner, D., Wengreen, H., Aguilar, S., Lockhart, G., & Madden, G. J. (revision in preparation). Short- and long-term effects of the FIT Game on fruit and vegetable consumption in elementary schools: A randomized clinical trial. *Nutrition*.
2. Ansu, V., Wengreen, H., Aguilar, S., & Madden, G. J. (submitted). Fruit and vegetable intake at and away from school during participation in the FIT Game. *Nutrition and Health*.
3. Madden, G. J., Reed, D. D., & Lerman, D. (in preparation). Translational behavioral economics. In H. Roane, J. Ringdahl, A. Craig (Eds.). *Translational Perspectives on Applied Behavior Analysis*. Guildford Press.

MEDIA COVERAGE

- NSF-funded air pollution project:

- <https://www.ksl.com/article/50012954/utah-scientists-receive-grant-to-test-real-time-air-pollution-warning-system>
- <https://ksltv.com/444520/utah-scientists-receive-grant-to-test-real-time-air-pollution-warning-system/>
- <https://www.news-medical.net/news/20200901/Researchers-identify-a-new-way-to-curb-air-pollution.aspx>
- USDA and NIH-funded healthy eating projects:
 - FIT Game:
<https://www.midvalejournal.com/2019/10/02/287144/copperview-east-midvale-team-up-with-usu-to-motivate-students-to-eat-more-veggies>
 - Herald Journal News (2016). USU researchers testing game to encourage healthy eating in schools.
http://news.hjnews.com/education/usu-researchers-testing-game-to-encourage-healthy-eating-in-schools/article_caebbd50-64eb-5ecd-af79-1ebf001e5d6d.html
 - Reuters Health (2015, September). Cash prizes may convince kids to eat more fruits and veggies.
<https://www.foxnews.com/health/cash-prizes-may-convince-kids-to-eat-more-fruits-and-veggies> Story picked up by Yahoo News, Fox News, Reddit, NY Post, CBC News, Food&Wine.com, among others.
 - KSL Morning News (2014, October). Video game helps students eat vegetables.
 - Cannon, K. (2014, October). Utah State University program encourages kids to eat more produce, waste less. *Herald Journal News*. http://news.hjnews.com/allaccess/utah-state-university-program-encourages-kids-to-eat-more-produce/article_663f432e-4e82-11e4-bf77-e7a81112a978.html
 - Malouf, M. B. (2012, January). Utah's fight against fat: Food Dudes healthy eating program. *Salt Lake Magazine*. Retrieved from <http://www.saltlakemagazine.com/blog/utahs-fight-against-fat-food-dudes-healthy-eating-program/>
 - Fattah, G. (2011, September). USU first in the country to try "Food Dudes" nutrition program. KSL Television News. Retrieved from <http://www.ksl.com/?nid=960&sid=17374007>
- Miscellaneous
 - Coronavirus and 4th of July: <https://wallethub.com/blog/coronavirus-and-4th-of-july-survey/75815/#expert=gregory-j-madden>
 - Tips for avoiding overspending <https://wallethub.com/blog/best-labor-day-sales/24014/#gregory-j-madden>



INVITED OR KEYNOTE ADDRESSES (all first author)

International

- Society for Contextual Behavioral Science, Seville, Spain, 2017
- National University of Mexico, Mexico City, Mexico, 2017
- CEIC Universidad de Guadalajara-Mexico, 2017
- Keio University, Tokyo, Japan, 2016
- International Congress on Psychology, Yokohama, Japan, 2016
- Osaka City University, Osaka City, Japan, 2016
- Moore Institute Symposium, Galway University, 2016
- Division of Behaviour Analysis, Maynooth, Ireland, 2016
- Wolfeson Centre for Clinical and Cognitive Neuroscience, Bangor University, 2014; Wales, United Kingdom
- Congress on Addictions, 2014; Mexico City
- International Conference on Multidisciplinary Perspectives on Child & Teen Consumption, 2012; Milan, Italy

National

- Association for Behavior Analysis International, 1990, 2006, 2008, 2011
 - Conference on Behavioral Economics, 2013
 - Substance Use and Addiction Conference, 2018
- 45th Annual Nebraska Symposium on Motivation, 2017
- Society for the Quantitative Analysis of Behavior, 2003, 2010, 2016, 2017
- Winter Conference on Animal Learning & Behavior, 2017
- Association for Professional Behavior Analysts, 2015
- Association for Contextual Behavioral Science, 2014
- American Psychological Association, 2009, 2011, 2013
- Johns Hopkins University, 2001, 2007, 2012
- U.S. Department of Agriculture, 2010
- Merrill Advanced Studies Center, 2008
- National Institute on Drug Abuse, 1997

Regional

- Florida Association for Behavior Analysis, 2019
- Kansas Association for Behavior Analysis, 2018
- Mid-American Association for Behavior Analysis, 2001, 2006, 2018
- Utah Association for Behavior Analysis, 2010, 2017
- Nevada Association for Behavior Analysis, 2012, 2016
- Texas Association for Behavior Analysis, 2008, 2016
- Berkshire Area Behavior Analysis & Therapy, 2015
- California Association for Behavior Analysis, 2006, 2012, 2015
- Vermont Center on Behavior and Health, 2013, 2015
- New Jersey Association for Behavior Analysis, 2013
- Western Psychological Association, 2012
- Northeastern Agriculture Resource Economics Association, 2011
- Florida Association for Behavior Analysis, 2010
- Four-Corners Association for Behavior Analysis, 2010
- Maryland Association for Behavior Analysis, 2007

Invited Colloquia

- California State University, Fresno, 2020
- Florida Institute of Technology, 2018
- University of Utah, College of Pharmacology, 2017
- University of Wisconsin – Milwaukee, Department of Psychology, 2017
- University of Kansas, Department of Applied Behavioral Science, 2004, 2005, 2016
- Southern Illinois University – Carbondale, Department of Psychology, 2007
- University of North Texas, Department of Behavior Analysis, 2004
- West Virginia University, Department of Psychology, 2004
- University of Connecticut, Department of Pharmacology, 1998

CONFERENCE PAPERS

* Graduate Student Coauthor ** Undergraduate Student Coauthor

1. Madden, G. J., Fuqua, R. W., & Rash, C. J. (May, 2019). Behavioral medicine special interest group panel discussion: Securing grant funding for behavioral medicine research. Annual meeting of the Association for Behavior Analysis International, Chicago, IL.

2. *Peck, S. & Madden, G. J. (May, 2019). Potential mechanisms of delay-exposure training. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
3. Madden, G. J. (May, 2019). Discussant: Symposium titled: Behavioral economics and transportation safety. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
4. *Griffith, K., Peck, S., Pinkelman, S. E., & Madden, G. J. (May, 2018). Teaching self-control: From basic findings to educational applications for children. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, San Diego, CA.
5. Madden, G. J. (May, 2018). Discussant: Symposium titled: Gamification and Group Contingencies in the College Classroom. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, San Diego, CA.
6. *Cole, D. M., Rung, J., & Madden, G. J. (May, 2017). Can temporal discounting be faked? In M. Sofis (Chair), Delay Discounting and its Repair: Methodological Issues and Extension. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Denver, CO.
7. Madden, G. J., Normand, M. P., & Miltenberger, R. (May, 2017). Panel discussion on the application of behavioral economics to obesity. Annual meeting of the Society for the Quantitative Analysis of Behavior, Denver, CO.
8. Madden, G. J., Sosa, F., Joyner, D., King, H., Wengreen, H., & Aguilar, S. (May, 2017). Gamifying the school cafeteria. In K. C. Kirby (Chair), There's more than one way to arrange a contingency: Strategies for supporting healthy behaviors. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Denver, CO.
9. *Renda, C. R. & Madden, G. J. (May, 2017). Experimentally manipulating impulsive choice in rats. In M. Sofis (Chair), Delay Discounting and its Repair: Methodological Issues and Extension. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Denver, CO.
10. *Hinnenkamp, J., & Madden, G. J. (May, 2016). Probabilistic outcomes in nonhuman delay discounting. In L. Muckey (Chair) Current investigations in animal learning. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
11. *Renda, C. R., **Draper, J., **Hess, B., & Madden, G. J. (May, 2016). Experimentally manipulating delay discounting in rats: Durability and generalization. In M. Sweeney (Chair) Changing impulsivity: Manipulations that affect delay discounting. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
12. *Rung, J., & Madden, G. J. (May, 2016). Alternative forms of price: Using hypothetical effort to assess demand in humans. In J. Stein (Chair) Recent findings in behavioral economics: Methodological innovations, schedule-dependent choice, and e-cigarette abuse liability. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
13. Madden, G. J., Jones, B. A., Wengreen, H., & Aguilar, S. (May, 2015). Using game-based non-tangible rewards to improve dietary decision-making. In K. Silverman (Chair) Incentives and health: The application of reinforcement in health promotion. Symposium conducted at the annual meeting of the Association for Behavior Analysis, San Antonio, TX.
14. *Renda, C. R., & Madden, G. J. (May, 2014). Effects of working-memory training on delay discounting in rats. In A. R. Craig (Chair), Rewards are key, but their timing is everything! Recent advances in matching theory, delay discounting, and behavioral momentum. Symposium conducted at the annual meeting of the Association for Behavior Analysis, Chicago, IL.
15. Madden, G. J. (Discussant; May, 2014) In A. Ward (Chair) Gambling pigeons and their parallels with people. Symposium conducted at the annual meeting of the Association for Behavior Analysis, Chicago, IL.
16. *Stein, J. S., *Renda, R., **Liston, K. J., **Barker, S., & Madden, G. J. (May, 2014). Impulsive choice and prolonged pre-exposure to reward delay in rodent models of drug self-administration. In P. Erb (Chair), Translational research in health behavior. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
17. *Jones, B. A., Madden, G. J., Wengreen, H., & Aguilar, S. (May, 2014). Playing games with food: Using gamification to increase fruit and vegetable consumption in elementary-school cafeterias. In J. Rung (Chair), Behavior can be "all fund and games:" Gamification research and applications. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
18. *Friedel, J. E., DeHart, W., Madden, G. J., & Odum, A. (May, 2014). The generality of steep discounting in smokers. In N. Call (Chair), Discounting of delayed and probabilistic rewards: From basic research to applications. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Chicago, IL.
19. *Stein, J. S., *Renda, C. R., **Barker, S., **Liston, K. J., & Madden, G. J. (October, 2013). Impulsive choice, alcohol consumption, and prolonged pre-exposure to delayed reinforcement in rats. Paper presented at the seventh international conference of the Association for Behavior Analysis International, Merida, Mexico.

20. *Stein, J. S., *Renda, C. R., Johnson, P.S., **Liston, K.J., & **Barker, S., & Madden, G.J. (May, 2013). Impulsive choice and alcohol consumption in male Long-Evans rats: Naturally occurring and experimentally induced relations. Paper presented at the annual convention of the Association for Behavior Analysis International, Minneapolis, MN.
21. Madden, G. J. (May, 2013). Delay discounting: Implications for future research across different perspectives. Panel discussion at the annual convention of the Association for Behavior Analysis International, Minneapolis, MN.
22. *Jones, B.A., Madden, G.J., Wengreen, H., & Aguilar, S. (May, 2012). Incentivizing children's fruit and vegetable consumption: Examination of incentive type and treatment fidelity. In S. E. Meredith (Chair), Recent Advances in Contingency Management Research I: Incentivizing Healthy Choices. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Seattle, WA.
23. *Stein, J. S., *Johnson, P. S., *Brewer, A. T., *Smits, R. R., *Francisco, M. T., & Madden, G. J. (May, 2011). Training self-control in Lewis rats: Assessments of generality across novel procedures. In D. D. Reed (Chair), Contemporary Approaches to the Analysis of Choice, Preference, and Decision Making. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Denver, CO.
24. Madden, G. J., Wengreen, H., & Aguilar, S. (May, 2011). Food Dudes in the US: A pilot project. In C. F. Lowe (Chair), Preventing Obesity and Changing Children's Eating Habits: The Food Dudes Programme. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Denver, CO.
25. Hayashi, Y., Williams, D.C., *Brewer, A. T., Madden, G. J., & Fowler, S. C. (May, 2011). Rich-to-lean transition induced aggression: Animal model of chronic aberrant behavior. In A. T. Brewer (Chair), Translational Research on Disruptive Effects of Signaled Rich-Lean Transitions. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Denver, CO.
26. Odum, A.L., Jordan, K., Madden, G. J., *Rodzon, K., & *Berry, M. S. (February, 2011). *Development of an experiential delay discounting task for young children*. Paper presented at the annual Winter Conference on Animal Learning and Behavior, Winter Park, CO.
27. *Brewer, A. T., *Stein, J. S., *Johnson, P. S., *Francisco, M. T., Williams, D. C., Saunders, K., & Madden, G. J. (May, 2010). *Pausing following rich-to-lean transitions under variable-ratio schedules: Effects of schedule configuration*. In J. Everly (Chair), Recent Findings on the Disruptive Effects of Transitions Between Favorable and Unfavorable Schedules of Reinforcement. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, San Antonio, TX.
28. *Brewer, A. T., *Smits, R. R., *Johnson, P. S., *Francisco, M. T., *Stein, J. S., & Madden, G. J. (May, 2010). *A touch-screen apparatus using Visual Basic in the animal laboratory*. In M. Perone (Chair), Advances in Computer Technology to Conduct Laboratory Experiments. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, San Antonio, TX.
29. *Johnson, P. S., *Stein, J. S., *Brewer, A. T., *Francisco, M. T., & Madden, G. J. (May, 2010). *Effects of acute pramipexole on delay sensitivity in a concurrent-chains procedure*. In A. A. Keyl (Chair), Quantitative Analysis of the Effects of Drugs on Behavior. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, San Antonio, TX.
30. *Stein, J. S., Pinkston, J. W., *Francisco, M. T., *Brewer, A. T., *Johnson, P. S., & Madden, G. J. (May, 2010). *Delay discounting in Lewis and Fischer 344 rats: Implications for the use of an adjusting-amount procedure to detect between-strains differences*. In P. L. Soto (Chair), Recent Studies of Variables Affecting Discounting and Demand. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, San Antonio, TX.
31. *Brewer, A. T., *Johnson, P. S., *Stein, J. S., *Francisco, M. T., Williams, D. C., & Madden, G. J. (May, 2009). *Pre-ratio pausing following rich-to-lean transitions on multiple schedules in Fischer 344 and Lewis rats*. In T. Wade-Galuska (Chair), Recent Topics on the Disruptive Effects of Negative Incentive Shifts. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Phoenix, AZ.
32. *Johnson, P. S., *Brewer, A. T., Pinkston, J. W., *Stein, J. S., *Francisco, M. T., & Madden, G. J. (May, 2009). *Delay discounting processes in pathological gambling: Pharmacological induction of impulsive behavior in the nonhuman laboratory*. In K. A. Saulsgiver (Chair), Delay Discounting, Substance Abuse, and Gambling. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Phoenix, AZ.
33. Madden, G. J., *Brewer, A. T., *Johnson, P. S., Pinkston, J. W., & Woods, J. H. (May, 2009). *Behavioral economics in the lab: Delay discounting, drug taking, and pathological gambling*. In G. P. Hanley (Chair), Science Board Translational Series: History and Current Status of Translational Research in Behavioral Economics. Symposium conducted at the annual meeting of the Association for Behavior Analysis International, Phoenix, AZ.
34. Madden, G. J. (May, 2009). Panel discussant. Professional development series: Understanding the publication process. Panel discussion at the annual meeting of the Association for Behavior Analysis. Phoenix, AZ.

35. Madden, G. J. (February, 2009). The behavioral economics of animal "gambling". Paper presented at the annual Winter Conference on Animal Learning and Behavior. Winter Park, CO.
36. Madden, G. J., *Johnson, P.S., Smith, N. G., & *Brewer, A.T. (May, 2007). Behavioral economics, impulsivity, and empirical findings from an animal model of gambling. In C. M. Galuska (Chair), Recent Advances in Behavioral Economics and Delay Discounting. Symposium conducted at the annual convention of the Association for Behavior Analysis, San Diego, CA.
37. **Slowiak, J., & Madden, G. J. (May, 2007). Improving telephone customer service behaviors in a medical clinic setting: A follow-up study. Paper presented at the annual convention of the Association for Behavior Analysis, San Diego, CA.
38. Madden, G. J., *Brewer, A., *Johnson, P., & Smith, N. (February, 2007). Some thoughts and some data on delay discounting and gambling. Paper presented at the annual Winter Conference on Animal Learning and Behavior, Winter Park, CO.
39. Madden, G. J., Smethells, J., Ewan, E. E., & Hursh, S. R. (May, 2006). Behavioral economics of relative reinforcer efficacy. In L. Green (Chair), An empirical tribute to the life and work of Raymond C. Battalio. Symposium paper presented at the annual meeting of the Association for Behavior Analysis; Atlanta, GA.
40. **Ewan, E. E., Baird, L. R., & Madden, G. J. (May, 2005). Toward an animal model of gambling. In M. McAllister (Chair), BIG SIG Student Paper Symposium on Gambling. Symposium conducted at the annual meeting of the Association for Behavior Analysis; Chicago, IL.
41. Carroll, M. E., Perry, J. L., Larson, E. B., Morgan, A. D., & Madden, G. J. (August, 2004). Delay discounting (impulsivity) as a predictor of drug self-administration. In W. K. Bickel, & M. W. *Johnson (Chairs), Delay discounting: Exploring its association with drug dependence. Symposium conducted at the annual meeting of the American Psychological Association, Honolulu, HI.
42. Madden, G. J., Rowe, R. R., Stephenson, K. M., & Bickley, W. E. (May, 2004). An empirical evaluation of the sensitivity of the rapid demand curve assay procedure. In T. A. Foster (Chair), Advances in behavioral economics: Recent research on demand and preference. Symposium conducted at the annual meeting of the Association for Behavior Analysis, Boston, MA.
43. Madden, G. J., Perry, J. L., German, J. P., & Carroll, M. E. (February, 2004). The role of delay discounting in acquisition of drug self-administration in rats. Paper presented at the annual meeting of the Winter Conference on Animal Learning and Behavior. Winter Park, CO.
44. Madden, G. J. (Discussant; May, 2003) In J. Dake (Chair) Contemporary conceptualizations of gambling behavior. Symposium conducted at the annual meeting of the Association for Behavior Analysis, San Francisco, CA.
45. Madden, G. J., Bye, A., Choate, J., Koenig, K., & **Mauel, E. (May, 2003). The behavioral economics of relative reinforcer efficacy. In T. Hackenberg (Chair) Demand, preference and hoarding: Recent research in behavioral economics. Symposium conducted at the annual meeting of the Association for Behavior Analysis, San Francisco, CA.
46. Madden, G. J., **Wegener, A., Schaller, J., Klein, L., & Arnold, C. (May, 2003). Humans in large groups violate the ideal free distribution. In T. Critchfield (Chair) Exploring sensitivity to reinforcement in group choice. Symposium conducted at the annual meeting of the Association for Behavior Analysis, San Francisco, CA.
47. Madden, G. J., **Raiff, B. R., **Dake, J., **Wegener, A., & **Bordenave, J. (May, 2002). Assessing the adequacy of our methods: Real versus hypothetical reinforcers. In A. Odum (Chair), Recent issues in delay discounting. Symposium presented at the annual meeting of the Association for Behavior Analysis, Toronto, Canada.
48. Madden, G. J., & **Soldner, J. (May, 2002). Animal preferences between equivalent unit prices. In E. Jacobs (Chair), Experimental analysis of choice: Species continuity in sensitivity to delayed consequences. Symposium presented at the annual meeting of the Association for Behavior Analysis, Toronto, Canada.
49. Madden, G. J. (October, 2001) Whatever Happened to PSI? Contemporary applications to undergraduate psychology. Mid-American Conference on the Teaching of Psychology. Evansville, IN.
50. Madden, G. J., Jennifer I. **Gross, Jamie M. **Dake, & Bethany R. **Raiff (May, 2001). Unit prices composed of fixed-ratio and variable-ratio schedules of reinforcement. In G. J. Madden (Chair). Advances in behavioral economics. Symposium conducted at the annual meeting of the Association for Behavior Analysis. New Orleans, LA.
51. Madden, G. J. (Discussant; May, 2001) In C. Hughes (Chair) Drug effects on self-control, risky choices, and procrastination. Symposium conducted at the annual meeting of the Association for Behavior Analysis. New Orleans, LA.
52. Morse, L. A., & Madden, G. J. (May, 2001). National certification of behavior analysts: An agent for significant change in our undergraduate and graduate programs in psychology. In J. Johnston (Chair). Emerging effects of certification: Academic reactions to training opportunities. Symposium conducted at the annual meeting of the Association for Behavior Analysis. New Orleans, LA.
53. Madden, G. J., Odum, A., & Bickel, W. K. (November, 2000). Impulsivity in substance abusing populations: What we know and where we are going. Behavior Analysis Society of Illinois. Orland Park, IL.

54. Madden, G. J., **Yamaguchi, T., Peden, B. F., & Burnazi, L. (May, 2000). Free operant group choice. In G. Madden (Chair). *Advances in the Analysis of Human Group Decision Making*. Symposium conducted at the annual meeting of the Association for Behavior Analysis. Washington, D.C.
55. Madden, G. J. (April, 2000). *Advances in the experimental analysis of human choice*. Midwestern Association for Behavior Analysis. Mankato, MN.
56. Shahan, T. A., Bickel, W. K., & Madden, G. J. (August, 1999). Behavioral economics of cigarette smoking: Conditioned reinforcement effects? In A. Liguori (Chair), *Human Behavioral Pharmacology--Laboratory and Clinical Studies*. Symposium conducted at the annual meeting of the American Psychological Association, Boston, MA.
57. Odum, A. L., Madden, G. J., & Bickel, W. K. (August, 1999). Delay discounting in current, former, and nonsmokers of cigarettes. In A. L. Odum & J. Roll (Chairs), *Substance Abuse and Impulsivity--Delay Discounting Investigations*. Symposium conducted at the annual meeting of the American Psychological Association, Boston, MA.
58. Odum, A. L., Bickel, W.K., & Madden, G. J. (June, 1999). Current cigarette smokers are more impulsive than never and ex-smokers. Symposium conducted at the annual meeting of the College for Problems of Drug Dependence. Acapulco, Mexico.
59. Odum, A. L., Madden, G. J., & Bickel, W. K. (May, 1999). Delay discounting and risky drug injection. In J. Roll (Chair), *Contemporary Issues in Human Behavioral Pharmacology: Laboratory Studies*. Symposium conducted at the annual meeting of the Association for Behavior Analysis, Chicago, IL.
60. Madden, G. J., Bickel, W. K., & Hughes, J. R. (August, 1998). Economic factors affecting the use of nicotine replacement products. In W. K. Bickel & G. J. Madden (Chairs), *Behavioral economic perspectives on the treatment of drug dependence*. Symposium conducted at the annual meeting of the American Psychological Association, San Fransisco, CA.
61. Madden, G. J., Bickel, W. K., & Hughes, J. R. (June, 1998). Behavioral-economics of nicotine replacements: Dose, type, price, and income manipulations. Paper presented at the annual meeting of the College for the Prevention of Drug Dependence, Phoenix, AZ.
62. Bickel, W. K., & Madden, G. J. (June, 1998). Impulsivity and needle use: Delay discounting methods. Paper presented at the annual meeting of the College for the Prevention of Drug Dependence, Phoenix, AZ.
63. Bickel, W. K., Madden, G. J., & Jacobs, E. (June, 1998). E pluribus unum or e unum pluribus? Reinforcement and its measurement. Paper presented at the annual meeting of the International Study Group Investigating Drugs as Reinforcers. Phoenix, AZ.
64. Madden, G. J., Bickel, W. K., & Hughes, J. R. (May, 1998). Nicotine nasal spray and gum function as inferior goods: Behavioral economic analyses. In W. K. Bickel (Chair), *Behavioral and economic analyses of drug use and abuse*. Symposium conducted at the annual meeting of the Association for Behavior Analysis, Orlando, FL.
65. Madden, G. J., Petry, N. M., & Bickel, W. K. (August, 1997). Delay discounting in opioid-dependent patients and non-drug-using control participants: Effects of reward type. Paper presented at the annual meeting of the American Psychological Association, Chicago, IL.
66. Madden, G. J., & Bickel, W. K. (June, 1997). Effects of price increases and brief abstinence on cigarette smoking: Behavioral economic analysis. Paper presented at the annual meeting of the College of Problems of Drug Dependence, Nashville, TN.
67. Madden, G. J., Petry, N. M., & Bickel, W. K. (June, 1997). Some implications of delay discounting on substance use and abuse. Paper presented at the annual meeting of the International Study Group Investigating Drugs as Reinforcers, Nashville, TN.
68. Madden, G. J., & Bickel, W. K. (May, 1997). An analysis of unit-price predictions in a choice context. In J. Roll (Chair), *Recent advances in behavioral pharmacology*. Symposium conducted at the annual meeting of the Association for Behavior Analysis, Chicago, IL.
69. Reilly, M. P., Madden, G. J., Shahan, T., & Perone, M. (May, 1997). Response topography of pigeons influences preference in a self-control task. In T. Hackenberg (Chair), *Self control in pigeons and people: Species difference or procedural artifact?* Symposium conducted at the annual meeting of the Association for Behavior Analysis, Chicago, IL.
70. Bickel, W. K., & Madden, G. J. (February, 1996). The behavioral economics of smoking. Paper presented at a meeting of the National Bureau of Economic Research, Cambridge, MA.
71. Bickel, W. K., & Madden, G. J. (August, 1996). Assessing combined behavioral-pharmacological treatment with economic models. In W. K. Bickel & G. J. Madden (Chairs), *Laboratory models for understanding drug abuse*. Symposium conducted at the annual meeting of the American Psychological Association, Toronto, Canada.
72. Madden, G. J., & Bickel, W. K. (August, 1996). Extending the concept of unit price in drug self-administration. In R. Pitts (Chair) *Behavior analysis is still alive in behavior pharmacology*. Symposium conducted at the annual meeting of the American Psychological Association, Toronto, Canada.

73. Madden, G. J., Bickel, W. K., & DeGrandpre, R. J. (June, 1996). An economic reanalysis of the effects of antagonist drugs. Paper presented at annual meeting of the International Study Group Investigating Drugs as Reinforcers, San Juan, Puerto Rico.
74. Madden, G. J., Bickel, W. K., & DeGrandpre, R. J. (May, 1996). An economic reanalysis of the effects of antagonist drugs. In G. J. Madden (Chair), *Advances in behavioral economics: empirical findings and conceptual issues*. Symposium conducted at the annual meeting of the Association for Behavior Analysis, San Francisco, CA.
75. Madden, G. J., Reilly, M., Shahan, T., & Perone, M. (May, 1996). Self-control and impulsivity in pigeons as a function of response topography: Treading vs. pecking. Paper presented at the annual meeting of the Association for Behavior Analysis, San Francisco, CA.
76. Bickel, W. K., & Madden, G. J. (May, 1996). A behavioral economic analysis of relative reinforcer efficacy. Paper presented at the annual meeting of the Behavioral Pharmacology Society, Chicago, IL.
77. Madden, G. J., & Perone, M. (May, 1995). Human sensitivity to concurrent variable-interval schedules of reinforcement: What happens when subjects observe schedule-correlated stimuli? Paper presented at the annual meeting of the Association for Behavior Analysis, Washington, D.C.
78. Madden, G. J. (March, 1995). Human sensitivity and insensitivity to parameters of reinforcement. Colloquium given at the Behavior Pharmacology Research Unit, Johns Hopkins University, Baltimore, MD.
79. Madden, G. J., & Perone, M. (May, 1994). Human sensitivity to response-dependent and response-independent reinforcement. Paper presented at the annual meeting of the Association for Behavior Analysis, Atlanta, GA.
80. Madden, G. J. (May, 1992). Biological and behavioral selection: Similar subprocesses? Paper presented at the annual meeting of the Association for Behavior Analysis, San Francisco, CA.
81. Hyten, C., & Madden, G. J. (May, 1991). Can you stop the scallop? Problems with descriptions of human FI behavior from the beginning. Paper presented at the annual meeting of the Association, Atlanta, GA.

CONFERENCE POSTERS

* Graduate Student Coauthor ** Undergraduate Student Coauthor

1. *Peck, S., **Harper, N., **Swanson, K., **Morrisey, K., & Madden, G.J. (May, 2018). Delay aversion reduction as a potential mechanism of delay-exposure training. Poster presented at the annual meeting of the Society for the Quantitative Analysis of Behavior, San Diego, CA.
2. **Argyle, T., *Rung, J. M., & Madden, G. J. (May, 2017). Assessing rates of nonsystematic data across discounting tasks. Poster presented at the annual meeting of the Society for the Quantitative Analysis of Behavior, Chicago, IL.
3. *Rung, J. M., & Madden, G. J. (May, 2017). Mechanisms of delay exposure training: The role of timing. Poster presented at the annual meeting of the Society for the Quantitative Analysis of Behavior, Chicago, IL.
4. *Ansu, V., Aquilar, S., Madden, G., & Wengreen, H. (October, 2015). Examining the association between children's fruit and vegetable intake at and away from school. Poster presented at the Food Nutrition Conference Expo, Nashville, TN.
5. *Fox, J., Wengreen, H., Madden, G., & Aguilar, S. (October, 2015). Did prior participation in the Food Dudes program help kids eat more fruits and vegetables under the new NSLP standards? Poster presented at the Food Nutrition Conference Expo, Nashville, TN.
6. *Hinnenkamp, J. & Madden, G. (May, 2015). Suboptimal choice: A unit-price analysis. Poster presented at the 38th annual meeting of the Society for Quantitative Analyses of Behavior, San Antonio, TX.
7. *Rung, J.M., & Madden, G. J. (2015). Examining potential mechanisms of the effects of opportunity costs on delay discounting. Poster presented at the annual meeting of the Association of Behavior Analysis International, San Antonio, TX.
8. Wengreen, H., Madden, G. J., & Aguilar, S. (June, 2014). Do the new national school lunch program (NSLP) standards help students to consume more fruits and vegetables? Poster presented at the annual meeting of the Society for Nutrition Education and Behavior. Milwaukee, WI.
9. *Jones, B. A., Madden, G. J., Wengreen, H. & Aguilar, S. (May, 2013). Incentivizing children's fruit and vegetable consumption: Examination of incentive type and treatment fidelity in the Food Dudes program. Poster presented at the annual meeting of the Association for Behavior Analysis International, Minneapolis, MN.
10. *Stein, J.S., *Smits, R.R., *Johnson, P.S, *Renda, R., & Madden, G.J. (May, 2012). Effects of prolonged exposure to delayed reinforcement on impulsive choice and alcohol consumption in rats. Poster presented at the annual meeting of the Association for Behavior Analysis International, Seattle, WA.

11. *Johnson, P.S., Stein, J., Smits, R., & Madden, G. J. (May, 2012). Pramipexole disrupts discrimination processes critical for intertemporal choice. Poster presented at the annual meeting of the Society for the Quantitative Analysis of Behavior.
12. *Johnson, P.S., Madden, G. J., & Smits, R. R. (May, 2011). Past-future discounting of non-monetary outcomes. Poster presented at the annual meeting of the Association for Behavior Analysis International, Denver, CO.
13. Smits, R.R., Madden, G. J., Wengreen, H., & Aguilar, S. (March, 2011). Incentivizing fruit and vegetable consumption in elementary school children. Poster presented at the ABAI Behavioral Economics Conference; Chicago, IL.
14. Madden, G. J., Wengreen, H., & Aguilar, S. (February, 2011). Increasing fruit and vegetable intake among elementary school children using the Food Dudes healthy eating program. Poster presented at the winter Food Service Conference, S.t George, UT.
15. Hayashi, Y., Williams, D. C., *Brewer, A. T., Madden, G. J., Fowler, S. C., & Saunders, K. J. (October, 2010). Effects of discriminable shifts in reinforcer magnitude on induced attack in pigeons. Poster presented at the annual meeting of the Southeastern Association for Behavior Analysis; Ashville, SC.
16. *Stein, J. S., *Johnson, P. S., *Francisco, M. T., *Brewer, A. T., Tierney, S. L., & Madden, G. J. (May, 2010). *Experimental manipulation of delay discounting: Implications for subsequent gambling-like behavior*. Poster presented at the annual meeting of the Association for Behavior Analysis International, San Antonio, TX.
17. Niileksela, C., & Madden, G. J. (May, 2010). Bundling delayed rewards together: Effects of bundle size. American Psychological Society, Boston, MA.
18. Kalman, D., & Madden, G. J. (February, 2010). Effects of bupropion on the simulated demand for cigarettes and the subjective effects of smoking. Society for Research on Nicotine and Tobacco, Baltimore, MD.
19. *Francisco, M. T., *Brewer, A. T., *Stein, J. S., *Johnson, P. S., & Madden, G. J. (May, 2009). Impulsivity as a predictor of preferences for gambling-like outcomes. Association for Behavior Analysis, Phoenix, AZ.
20. *Johnson, P. S., *Brewer, A. T., *Stein, J. S., *Francisco, M. T., & Madden, G. J. (May, 2009). Effects of pramipexole on choice for differential rewards using a within-session increasingly-delay procedure. Association for Behavior Analysis, Phoenix, AZ.
21. *Brewer, A. T., Smith, N. G., *Johnson, P. S., Pinskton J. W., Williams D. C., & Madden, G. J. (August, 2007). Delay discounting as a predictor of pre-ratio pausing on multiple schedules in Fischer 344 and Lewis rats. International meeting of the Association for Behavior Analysis, Sydney, Australia.
22. *Brewer, A.T., *Johnson, P.S., Pyszczynski, A.D., *Stein, J.S., Smith, N.G., Wu, H., Williams, D.C., Pinkston, J.W., Woods, J., & Madden, G.J. (May, 2007). Preliminary effects of pramipexole on choice for differential rewards in a delay discounting paradigm. Association for Behavior Analysis, San Diego, CA.
23. *Brewer, A. T., *Johnson, P. S., McCusker, M., Pyszczynski, A., Madden, G. J., & Williams, D. C. (May, 2007). Delay discounting as a predictor of pre-ratio pauses following rich-to-lean transitions. Association for Behavior Analysis, San Diego, CA.
24. *Brewer, A.T., Saunders, K., Madden, G. J., & Williams, D. C. (May, 2007). Maladaptive behaviors following rich-to-lean transitions on multiple schedules. Association for Behavior Analysis, San Diego, CA.
25. Ewan, E. E., Smethells, J. R., & Madden, G. J. (May, 2006). The choice to work for fixed- versus random-reinforcer amounts. Association for Behavior Analysis; Atlanta, GA.
26. Sutton, C. A., Mack-Olsen, E. J., Rasmussen, K. L., & Madden, G. J. (May, 2006). Process improvement in a clinic setting: An application of OBM. Association for Behavior Analysis; Atlanta, GA.
27. **Slowiak, J. M., & Madden, G. J. (May, 2005). Effects of a multi-component intervention package to improve telephone customer service in a mid-western medical clinic. Association for Behavior Analysis; Chicaco, IL
28. **Lagorio, C. H., Remiker, M., Bourgeois, B., Zeug, N., Smethells, J., Smith, T., & Madden, G. J. (May, 2005). Behavioral economics of relative reinforcer efficacy: Food and fat. Association for Behavior Analysis; Chicaco, IL.
29. Sutton, C., Rasmussen, K., Berends, V., & Madden, G. J. (May, 2005). Process improvement in a clinical setting: An application of OBM. Association for Behavior Analysis; Chicaco, IL.
30. **Slowiak, J. M., & Madden, G. J. (January, 2005). Effects of a multi-component intervention package to improve telephone customer service in a mid-western medical clinic. Florida Association for Behavior Analysis / Organizational Behavior Management Network Conference.
31. Hehli, D. J., Koffarnus, M. N., Paul, M. K., Rowe, R. R., & Madden, G. J., (May, 2004). Observing in pigeons under concurrent schedules of reinforcement. Association for Behavior Analysis, Boston, MA
32. Perry, J.L., German, J.P., Madden, G.J., & Carroll, M.E. (July, 2004). Impulsivity (delay discounting) as a predictor of acquisition of i.v. cocaine self-administration in male (vs. female) rats. College for the Prevention of Drug Dependence, Phoenix, AZ.
33. **Slowiak, J. M., Paul, M. K., **Lagorio, C. H. & Madden, G. J. (May, 2004). Do retirees (Retired breeding pigeons) at a "slot machine" conform to the predictions of unit price? Association for Behavior Analysis, Boston, MA.

34. **Slowiak, J. M., & Madden, G. J. (May, 2004). The effects of a combined task clarification, goal setting, feedback, and incentive intervention package to improve telephone customer service in a medical clinic environment. Association for Behavior Analysis, Boston, MA.
35. Carroll, M.E., Larson, E.B., Perry, J. L., & Madden, G. J. (July, 2003). An animal model of impulsivity (delay discounting) predicts vulnerability to acquisition of i.v. cocaine self-administration. College for the Prevention of Drug Dependence, Quebec.
36. Ferron, M., & Madden, G. J. (May, 2003). Is this the right dog for you? Targeting and training of desirable behaviors in shelter dogs. Association for Behavior Analysis, San Francisco, CA.
37. **Mauel, E., Madden, G. J., & Klatt, K. P. (May, 2003). Using percentile schedules to teach children with attention deficit disorder self-control. Association for Behavior Analysis, San Francisco, CA.
38. **Bordenave, J., Klein, L., Schaller, J., **Wegener, A. (May, 2003). Human social behavior under concurrent schedules: Conger and Killeen (1974) revisited. Association for Behavior Analysis, San Francisco, CA.
39. Hehli, D., Koffarnus, M., Flosason, T., & Madden, G. J. (May, 2003). Observing in pigeons under concurrent schedules of reinforcement. Association for Behavior Analysis, San Francisco, CA.
40. **Lagorio, C., & Madden, G. J., (May, 2003). Effects of handling costs on pigeons' preferences between equivalent unit prices. Association for Behavior Analysis, San Francisco, CA.
41. Larson, E. B., Gremel, C. M., Carroll, M. E. & Madden, G. J. (November, 2002). Impulsivity as a Predictor of Acquisition of Cocaine Self-Administration. Society for Neuroscience, Orlando, FL.
42. **Wegener, A., **Raiff, B., **Soldner, J., & Madden, G. J. (October, 2002). Delay discounting of real and hypothetical rewards: New data and lingering concerns. Mid-American Association for Behavior Analysis. Kalamazoo, MI.
43. **Lagorio, C., & Madden G. J. (October, 2002). Preference between equivalent unit priced alternatives. Mid-American Association for Behavior Analysis. Kalamazoo, MI.
44. **Mauel, E., Schwenker, B., & Madden, G. J. (October, 2002). Preference between FR and RR schedules under a closed economy. Mid-American Association for Behavior Analysis. Kalamazoo, MI.
45. Koffarnus, M., Hehli, D., Flosason, T., & Madden, G. J. (October, 2002). Observing in pigeons under concurrent schedules of reinforcement. Mid-American Association for Behavior Analysis. Kalamazoo, MI.\
46. Anderson, J., Koffarnus, M., Oppenheim, R., & Madden, G. J. (May, 2002). Pigeons, like humans, will not reliably observe informative stimuli: Implications for the matching law. Association for Behavior Analysis, Toronto, Canada.
47. Ferron, M., & Madden, G. J. (May, 2002). Behaviorally rating shelter dogs to improve adoptability. Association for Behavior Analysis, Toronto, Canada.
48. **Krueger, K., **Gross, J., & Madden, G. J. (May, 2002). The effects of group size on conformity to the ideal free distribution. Association for Behavior Analysis, Toronto, Canada.
49. **Mauel, E, **Dake, J., **Raiff, B., **Gross, J., & Madden, G. J. (May, 2002). Pigeons put microeconomic theory to the test. Association for Behavior Analysis, Toronto, Canada.
50. **Raiff, B. R., **Bordenave, J., **Wegener, A., **Dake, J., & Madden (May, 2002). Human concurrent schedule performance in positive versus negative schedules of reinforcement. Association for Behavior Analysis, Toronto, Canada.
51. Heffner, M., Foster, S., Perone, M., Edelstein, B.A., & Madden, G. (January, 2002). Financial Need Questionnaire: Preliminary Psychometric Properties of a Self-Report Measure to Assess Motivation for Monetary Reinforcement. West Virginia University Eberly College of Arts and Sciences Research Horizons Poster Session, Morgantown, WV.
52. Anderson, J. Oppenheim, R., Koffarnus, M., & Madden, G. J. (November, 2001). Will pigeons observe informative stimuli under concurrent schedules? Matching law implications. Mid-American Association for Behavior Analysis. Bloomington/Normal, IL.
53. **Mauel, E., **Dake, J., **Raiff, B., **Gross, J. I., & Madden, G. J. (November, 2001). Pigeons put microeconomic theory to the test. Mid-American Association for Behavior Analysis. Bloomington/Normal, IL.
54. **Raiff, B., **Bordenave, J., **Wegener, A., **Dake, J., & Madden, G. J. (November, 2001). Human temporal discounting when the consequences are real and hypothetical. Mid-American Association for Behavior Analysis. Bloomington/Normal, IL.
55. **Raiff, B., **Bordenave, J., **Wegener, A., **Dake, J., & Madden, G. J. (November, 2001). Human concurrent schedule performance under positive and negative reinforcement contingencies. Mid-American Association for Behavior Analysis. Bloomington/Normal, IL.
56. **Soldner, J., & Madden, G. J. (November, 2001). Pigeon preferences between equivalent unit prices. Mid-American Association for Behavior Analysis. Bloomington/Normal, IL.
57. **Retzak, A. D., **Alvarez, E. A., **Raiff, B. R. **Cermak, J. & Madden, G. J. (May, 2001). Effects of conditioned-stimulus strength on impulsivity in pigeons. Association for Behavior Analysis. New Orleans, LA.

58. **Gantz, A. M., **Raiff, B. R., **Mathews, K. L., & Madden, G. J. (May, 2001). Can humans accurately report how they would discount hypothetical rewards. Association for Behavior Analysis. New Orleans, LA.
59. **Krueger, K. L., **Gross, J. I., Madden, G. J., Peden, B. F., & **Yamaguchi, T. (May, 2001). Human foraging and the ideal free distribution. . Association for Behavior Analysis. New Orleans, LA.
60. **Welch, C. M., **Hlava, J. A., **Gantz, A. M., & Madden, G. J. (May, 2001). Human discounting of lump sum rewards and installment payments: Implications for our understanding of substance dependence. . Association for Behavior Analysis. New Orleans, LA.
61. Madden, G. J., Peden, B. F., & **Yamaguchi, T. (October, 2000). Humans conform to the matching law (the ideal free distribution). Southeastern Association for Behavior Analysis. Chattanooga, TN.
62. Madden, G. J. (May, 2000). Interteaching, SAFMEDS, and discussion sessions in an undergraduate learning course. Council of Teachers of Undergraduate Psychology. Chicago, IL.
63. Kastern, L. L., **Gantz, A., **Harris, A., **Raiff, B., & Madden, G. J. (May, 2000). Human discounting of delayed monetary rewards: Real vs hypothetical rewards. Association for Behavior Analysis. Washington, D.C.
64. **Cermak, J., **Harris, A., & Madden, G. J. (May, 2000). Effects of response topography on discounting delayed reinforcers in pigeons. Association for Behavior Analysis. Washington, D.C.
65. **Gross, J. I., & Madden, G. J. (May, 2000). A novel test of the behavioral economic concept of unit price. Association for Behavior Analysis. Washington, D.C.
66. **Gross, J. I., & Madden, G. J. (May, 2000). A novel test of the behavioral economic concept of unit price. Midwestern Psychological Association. Chicago, IL.
67. **Peterson, C. Y., & Madden, G. J. (May, 2000). Effects of response topography on impulsivity in pigeons. Association for Behavior Analysis. Washington, D.C.
68. **Peterson, C. Y., & Madden, G. J. (April, 2000). Are pigeons impulsive? A response topography analysis. Conference on Undergraduate Research. Missoula, MT.
69. Madden, G. J., Bickel, W. K., & Jacobs, E. A. (May, 1999). Three predictions of the economic concept of unit price in a choice context. Society for the Quantitative Analysis of Behavior.
70. Shahan, T. A., Bickel, W. K., & Madden, G. J. (May, 1999). Cigarette demand and preference: Conditioned reinforcement effects? Association for Behavior Analysis, Chicago, IL.
71. Madden, G. J., Bickel, W. K., & Hughes, J. R. (March, 1998). A behavioral-economic model of smoking: Concomitant effects of cigarette price and nicotine nasal spray dose. Society for Research on Nicotine and Tobacco, New Orleans, LA.
72. Bickel, W. K., Madden, G. J., & Hughes, J. R. (March, 1998). Nicotine nasal spray and gum function as inferior goods: behavioral-economic analyses Society for Research on Nicotine and Tobacco, New Orleans, LA.
73. Madden, G. J., Petry, N. M., & Bickel, W. K. (October, 1996). Delay-discounting in opiate-dependent and matched control subjects: Effects of reward type. Southeastern Association for Behavior Analysis, Wilmington, NC.
74. Madden, G. J., & Perone, M. (Oct, 1993). Effects of alternative sources of reinforcement on human responding: Does temporal contiguity matter? Southeastern Association for Behavior Analysis, Chapel Hill, NC.
75. Hyten, C., Field, D. P., Madden, G. J., & Mistr, K. N. (May, 1991). Exchange delays and impulsive choice in humans. Association for Behavior Analysis, Atlanta, GA.

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<i>Perspective on Behavioral Science</i>	<i>Pharmacology, Biochemistry, & Behavior</i>
<i>Physiology and Behavior</i>	<i>PLoS ONE</i>
<i>Preventive Medicine</i>	<i>Psychology of Addictive Behaviors</i>
<i>Psychological Record</i>	<i>Psychonomic Bulletin & Review</i>
<i>Psychopharmacology</i>	<i>Quarterly Journal of Experimental Psychology</i>
<i>Stress</i>	<i>Sustainability</i>

Service to Professional/Governmental Organizations

- National Institutes of Health
 - Study Section Member: Biobehavioral Regulation, Learning and Ethology (2017-2022)
 - *Accelerating the Pathway from Ideas to Efficacy* (translational research “think tank”), 2016
 - Guest Grant Reviewer: BRLE, 2005-2016
 - Guest Grant Reviewer: NICHD, Health, Behavior and Context study section, 2014-2015
 - Guest Grant Reviewer: National Institute on Aging (Behavioral Economics), 2010
 - Guest Grant Reviewer: Behavior Science Track Awards for Rapid Transition, 2000-2005.
 - Guest Grant Reviewer: Small Business Innovative Research Program, 1999-2000.
- American Psychological Association
 - Coordinator, APA, Division 25 Awards (2005-2008)
 - Board of Directors (At-Large Representative), American Psychological Association, Division 25 (2003-2007).
 - Membership Chair: Division 25, American Psychological Association, 1999-2001.
- Associate for Behavior Analysis International (ABAI has over 8,000 members from more than 35 countries)
 - Executive Council (elected position, 2010-2013)
 - Council liaison to Division 25 of the American Psychological Association (2011-2013).
 - Science Board (2009-2010)
- Society for the Experimental Analysis of Behavior
 - Board of Directors (2003-2020)
 - Vice President (2008, 2016-2017)
 - President (2017-2019)
- Mid-American Association for Behavior Analysis
 - Program Chair (2009)
 - President (2005)
 - Board of Directors (2001-2004)
 - Program Committee (2001-2002)
- Other Grant Reviewing Activities
 - Behavioral Economics in Child Nutrition Program (Cornell University), 2011-2012
 - Nebraska Experimental Program to Stimulate Competitive Research First Award, 2010
 - National Council on Responsible Gambling (Harvard University), 2010-2011

- Marsden Fund (New Zealand), 2010
- Wellcome Trust, 2004-2005
- Wolfson Foundation (London, England), 2011
- US Department of Health and Human Services: Field Reviewer for *Treatment Improvement Protocols (TIPs)*,
- Experimental Analysis of Human Behavior Special Interest Group
 - Chair, (2002-2004)
 - Student paper competition coordinator (1999-2002).

Service to the University

- Director of Graduate Training
 - Behavior Analysis Program Chair – 2018-present
 - Applied Behavioral Science Program Chair – 2005-2010
 - Interim Department Chair (spring, 2008)
- D. Wynne Thorne Award Committee
 - Co-chair – 2021-2022
- Chair, Committee on Undergraduate Studies and Advising, CUSA (2008-2009)
 - CUSA member (2006-2009)
 - CUSA Subcommittee on Academic Standards (2006-2008)
- Tenure & Promotion Committees:
 - Sheryl Aguilar, Nutrition Dietetics & Food Science (2016-2017)
 - Lori Anderson, HYPR (2015)
 - Katherine Brown (2020-present) Chair
 - Mona Buhusi (2012-2018)
 - Melanie Domenech-Rodriguez (2012)
 - Jamison Fargo (2013-2015)
 - David Feldon, Director, STEM Center USU (2015-2017).
 - Christian Geiser (2012-2015)
 - Ray Joslyn; SPED (2019-present)
 - Michael Levin (2013-present)
 - Ginger Lockhart (2012-2018) Chair
 - Matthew Meng, Marketing; Huntsman School of Business (2017-present)
 - Tyler Renshaw (2018-2019)
 - Andrew Samaha (2011-2013)
 - Sarfaraz Serang (2018-present)
 - James Soldner, SPED (2011)
 - Michael Twohig (2015-2016) Chair
- Search Committees:
 - *Director of Research Technology Services* (2007)
 - Applied Behavior Analysis (Chair, 2018-2019)
 - Behavioral Neuroscience (2011-2012)
 - Clinical Child (2011-2013)
 - Adult Clinical (2012-2013)
- Graduate Student Thesis & Dissertation Committees (graduation year)
 - Kaitlyn Browning (2020)
 - Andrew Craig (2017)
 - Stephanie Crank (Neuroscience)
 - Paul Cunningham (2019)
 - William (Brady) DeHart (2017)
 - Jonathan Friedel (2017)
 - Charles (Casey) Frye (2020)
 - Annie Galizio (2020)
 - Kristin Griffith (Special Education)
 - Jeremy Haynes
 - Jay Hinnenkamp (2020) Chair
 - Patrick Johnson (2013) Chair

- Brooke Jones (Morrill) (2016)
- Damon Joyner (NDFS, 2018)
- Saba Mahmoudi (2020-)
- Kate Morrison (2017)
- Rusty Nall (2019)
- Elizabeth Nix (NDFS, 2018)
- Hali Obray (NDFS; 2018)
- Megan Raddatz (2018-) Neuroscience
- Cheyenne Renee Renda (2018) Chair
- Noa Reuveni (2019-) Neuroscience
- Jillian Rung (2018) Chair
- Brooke Smith (2018)
- Jeff Stein (2014) Chair
- Colin Stromberg (NDFS; 2014-2016)
- Margaret Sweeney (2016)
- Caroline Towse (2020-)
- Emma Visser (2019-)
- McNair Scholars Mentor (2002-2005, 2009)
- Campus Director: A. H. Zeppa Family Foundation (2004)

Service to Other Institutions

- External Tenure and/or Promotion Reviewer
 - Mikhail Koffarnus, University of Kentucky (2020)
 - Michael Amlung, University of Kansas (2020)
 - Matthew Johnson, Johns Hopkins University (2019)
 - Michael Amlung, McMaster University, Canada (2019)
 - Kimberley Kirkpatrick, Kansas State University (2018)
 - Richard Serna, University of Massachusetts, Lowell (2018)
 - David Jarmolowicz, University of Kansas (2017)
 - Matthew Bell, Santa Clara University (2016)
 - Mihela Ervack, Bangor University, Wales (2016)
 - Richard Serna, University of Massachusetts, Lowell (2014)
 - Derek Reed, University of Kansas (2014)
 - William V. Dube, University of Massachusetts Medical School (2013)
 - Richard Yi, University of Maryland (2013)
 - Pauline Horne, Bangor University, Wales, United Kingdom (2012)
 - Suzanne Mitchell, Oregon Health & Science University (2012)
 - Karen Anderson, West Virginia University (2009)
 - Jesse Dallery, University of Florida (2008)
 - Manish Vaidya, University of North Texas (2008)
 - Eric Jacobs, Southern Illinois University – Carbondale (2007)
- Intramural Grant Reviewer
 - West Virginia University (2004, 2009)
 - University of Nebraska – Lincoln (2011)

Service to the Community

- Big Piney Elementary School, Big Piney, Wyoming. Assisted Cassidy Bateman, a 5th grader, as she implemented the FIT Game in her own school, for her school science fair project.
- Community Table, Logan, UT. Periodically provide assistance at the Loaves and Fishes meal for underprivileged families.

REFERENCES

Warren K. Bickel, Inaugural Holder, Virginia Tech Carilion Behavioral Health Research Professorship; Director, Addiction Recovery Research Center; Professor of Psychology, College of Science, Virginia Tech; Professor of Psychiatry and Behavioral Medicine, Virginia Tech Carilion School of Medicine

Kennon A. Lattal, Centennial Professor, Department of Psychology, West Virginia University

Edward K. Morris, Professor, Department of Applied Behavioral Science, University of Kansas

Michael Perone, Associate Dean for Faculty and Professor in the Department of Psychology, West Virginia University

Kenneth Silverman, Professor, Johns Hopkins University School of Medicine, Department of Psychiatry and Behavior Sciences,
Division of Behavioral Biology. Director: Center for Learning and Health.