

Curriculum Vitae

April 2017

Sydney Trask, M.A.

Department of Psychological Science

University of Vermont

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Education

The University of Vermont, Burlington, VT 05405

Master of Arts in Psychological Science, February 2014

Thesis: Contextual Control of Operant Behavior: Evidence for Hierarchical Associations in Instrumental Learning

Current Doctoral Candidate

Kent State University, Kent, OH 44240

Bachelor of Arts in Psychology, May 2012

Summa Cum Laude

Research Mentors

Dr. David Riccio, Kent State University (July 2010 – May 2012)

Dr. Aaron Jasnow, Kent State University (August 2011 – May 2012)

Dr. Mark Bouton, The University of Vermont (June 2012 – Present)

Dr. John Green, The University of Vermont (June 2015 – Present)

Publications

Trask, S., & Bouton, M. E. (2014). Contextual control of operant behavior: Evidence for hierarchical associations in instrumental learning. *Learning & Behavior*, 42, 281-288.

Trask, S., Schepers, S. T., & Bouton, M. E. (2015). Context change explains resurgence after the extinction of operant behavior. *Mexican Journal of Behavior Analysis*, 41, 187-210.

Bouton, M. E., & **Trask, S.** (2016). Role of the discriminative properties of the reinforcers in resurgence. *Learning & Behavior*, 44, 137-150.

Trask, S., & Bouton, M. E. (2016). Discriminative properties of the reinforcer can be used to attenuate the renewal of extinguished operant behavior. *Learning & Behavior*, 44, 151-161.

Bouton, M. E., **Trask, S., & Carranza-Jasso, R. (2016).** Learning to inhibit the response during instrumental (operant) extinction. *Journal of Experimental Psychology: Animal Learning and Cognition*, 42, 246-258.

Trask, S., Shipman, M. L., Green, J. T., & Bouton, M. E. (2017). Inactivation of the prelimbic cortex attenuates context-dependent excitatory operant responding. *The Journal of Neuroscience*, 37, 2317-2324.

Trask, S., Thrailkill, E. A., & Bouton, M. E. (2017). Occasion setting, inhibition, and the contextual control of extinction in Pavlovian and instrumental (operant) learning. *Behavioural Processes*, 137, 64-72.

Trask, S., & Bouton, M. E. (submitted). Retrieval practice after multiple context changes, but not long retention intervals, reduces the impact of a final context change on instrumental behavior.

Trask, S. (submitted). Free operant. In J. Vonk & T. K. Shackelford (Eds.), *Encyclopedia of Animal Learning and Cognition*, New York, NY: Springer.

Manuscripts in Preparation

Trask, S., & Bouton, M. E. Retrieval cues associated with alternative reinforcement can attenuate resurgence of an extinguished free operant response.

Shipman, M. L., **Trask, S., Bouton, M. E., & Green, J. T.** Rethinking the action habit dichotomy: Inactivation of the pre- or infralimbic cortices differentially affects minimally and extensively trained actions.

Paper Presentations

2012

Bidirectional effects of increasing histone acetylation on extinction learning. **Sydney Trask**, Patrick K. Cullen, David C. Riccio, and Aaron M. Jasnow. Presented at the TriState Plus Meeting in April, 2012 (Kent, OH).

2013

Mechanisms of contextual control of instrumental learning. **Sydney Trask** and Mark E. Bouton. Presented at the Vermont Summer Summit in June, 2013 (Burlington, VT).

2014

Contextual control of operant behavior: Evidence for hierarchical associations in instrumental learning. **Sydney Trask** and Mark E. Bouton. Presented at the Eastern Psychological Association annual conference in March, 2014 (Boston, MA).

Contextual control of instrumental actions and habits. Mark E. Bouton, **Sydney Trask**, and Eric A. Thrailkill. Presented at the Gregynog Associative Learning Symposium in April, 2014 (Powys, Wales).

2015

Reducing relapse by presenting a reinforcer associated with behavioral inhibition. **Sydney Trask** and Mark E. Bouton. Presented at the annual conference for Neuroscience, Behavior, and Health in January, 2015 (Burlington, VT).

Response inhibition during extinction in discriminated operant conditioning. Rodrigo Carranza-Jasso, **Sydney Trask**, and Mark E. Bouton. Presented at the Eastern Psychological Association annual conference in March, 2015 (Philadelphia, PA).

Reinforcers associated with extinction can attenuate free-operant renewal. **Sydney Trask** and Mark E. Bouton. Presented at the Eastern Psychological Association annual conference in March, 2015 (Philadelphia, PA).

2016

Learning to suppress behavior during operant extinction: Implications for cue-exposure therapy. **Sydney Trask**, Rodrigo Carranza-Jasso, and Mark E. Bouton. Presented at the annual conference for Neuroscience, Behavior, and Health in January, 2016 (Burlington, VT).

Inactivation of the prelimbic cortex attenuates context-dependent excitatory responding. Megan L. Shipman, **Sydney Trask**, John T. Green, and Mark E. Bouton. Presented at the annual conference for Neuroscience, Behavior, and Health in January, 2016 (Burlington, VT).

Transfer of operant responding to new contexts after training in multiple contexts. **Sydney Trask** and Mark E. Bouton. Presented at the Eastern Psychological Association annual conference in March, 2016 (New York, NY).

Learning to inhibit the response during operant extinction. Mark E. Bouton, **Sydney Trask**, and Rodrigo Carranza-Jasso. Presented at the Gregynog Associative Learning Symposium in April, 2016 (Powys, Wales).

2017

Retrieval cues associated with alternative reinforcement can attenuate resurgence of an extinguished operant response. **Sydney Trask** and Mark E. Bouton. Presented at the Eastern Psychological Association annual conference in March, 2017 (Boston, MA).

Inactivation of the prelimbic cortex affects an undertrained, but not overtrained, action. Megan L. Shipman, **Sydney Trask**, Mark E. Bouton, and John T. Green. Presented at the annual Dartmouth Neuroscience Symposium in April, 2017 (Hanover, NH).

Cues associated with alternative reinforcement can attenuate reinforcement resurgence of an extinguished instrumental response. **Sydney Trask** and Mark E. Bouton. To be presented at the annual meeting of the Society for the Quantitative Analysis of Behavior in May, 2017 (Denver, CO).

Retrieval cues associated with alternative reinforcement can attenuate resurgence of an extinguished instrumental response. **Sydney Trask** and Mark E. Bouton. *Invited Presentation*. To

be presented at the annual conference for the Association of Behavioral Analysis International in May, 2017 (Denver, CO).

Poster Presentations

2011

Trask, S., Cullen, P.K., Gos, K. K., Pickens, L., Fountain, S., & Riccio, D. C. (2011). *Adolescent nicotine affects memory for stimulus attributes but not extinction*. Poster presented at the annual meeting of the Midwestern Psychological Association in May, 2011 (Chicago, IL).

2012

Lynch, J.F. III, Latsko, M., Leppla, C.A., **Trask, S.** & Riccio, D.C. (2012). *Forgetting of stimulus attributes after adolescent exposure to nicotine and stress*. Poster presented at the 27th Annual Graduate Research Symposium in April, 2012 (Kent, OH).

Meduri, J., Dulka, B., Leppla, C., & **Trask, S.** (2012). *Social defeat produces long-term changes in social behavior and specific deficits in fear extinction*. Poster presented at the 27th Annual Graduate Research Symposium in April, 2012 (Kent, OH).

Cullen, P.K., **Trask, S.**, Leppla, C.A., Dulka, B.N. & Latsko, M. (2012). *Bidirectional effects of increasing histone acetylation on extinction learning*. Poster presented at the 27th Annual Graduate Research Symposium in April, 2012 (Kent, OH).

Leppla, C.A., **Trask, S.**, & Jasnow, A.M. (2012). *Dopamine modulates the precision of long term memory*. Poster presented at the Undergraduate Research Symposium in April, 2012 (Kent, OH).

Trask, S., Leppla, C.A., Lynch, J.F. III, Cullen, P.K., & Riccio, D.C. (2012). *Differences in extinction retention in rats after a short or long delay*. Poster presented at the Undergraduate Research Symposium in April, 2012 (Kent, OH).

Cullen, P.K., Dulka, B.N., **Trask, S.**, Riccio, D.C., & Jasnow, A.M. (2012). *The loss of presynaptic GABAB1A receptors in increased rates of context fear generalization*. Poster presented at the Pavlovian Society annual meeting in September, 2012 (Jersey City, NJ).

Cullen, P.K., **Trask, S.**, Dulka, B. N., Riccio, D.C., & Jasnow, A.M. (2012). *The role of presynaptic inhibition in the generalization of context memory*. Poster presented at the Society for Neuroscience annual meeting in October, 2012 (New Orleans, LA).

Leppla, C.A., **Trask, S.**, & Jasnow, A.M. (2012). *Dopamine controls the precision of long-term fear memory*. Poster presented at the Society for Neuroscience annual meeting in October, 2012 (New Orleans, LA).

2013

Schepers, S.T., **Trask, S.**, & Bouton, M.E. (2013) *Effects of imposing a negative contingency between the first behavior and Phase 2 reinforcement on resurgence after instrumental extinction*. Poster presented at the Eastern Psychological Association annual conference in March, 2013 (New York, NY).

2014

Trask, S., Schepers, S.T., & Bouton, M.E. (2014) *Getting rid of resurgence: Implications for contingency management treatments*. Poster presented at the annual conference for Neuroscience, Behavior, and Health in January, 2014 (Burlington, VT).

Trask, S., & Bouton, M.E. (2014). *Discriminative role of the reinforcer in the inhibition of operant behavior*. Poster presented at the annual meeting of the Pavlovian Society in September, 2014 (Seattle, WA).

Trask, S., & Bouton, M.E. (2014). *Discriminative role of alternative reinforcement in the inhibition of operant behavior*. Poster presented at the 2nd annual Conference for the Vermont Center of Behavior and Health in October, 2014 (Burlington, VT).

Carranza-Jasso, R., **Trask, S.,** & Bouton, M.E. (2014). *Tests for the acquisition of response inhibition during extinction of discriminated operant behavior*. Poster presented at the annual Learning and Memory Meeting in October, 2014 (Mexico City, Mexico).

2015

Bouton, M.E., **Trask, S.,** & Carranza-Jasso (2015). *Learning not to make the response during operant extinction*. Poster presented at the annual meeting of the Pavlovian Society in September, 2015 (Portland, OR).

Shipman, M.L., **Trask, S.,** Green, J. T., & Bouton, M.E. (2015). *Inactivation of the prelimbic cortex attenuates context-dependent excitatory operant responding*. Poster presented at the annual meeting of the Pavlovian Society in September, 2015 (Portland, OR).

Bouton, M.E., **Trask, S.,** & Carranza-Jasso, R. (2015). *Learning not to make the response during operant extinction*. Poster presented at the 3rd annual Conference for the Vermont Center of Behavior and Health in October, 2015 (Burlington, VT).

Shipman, M.L., **Trask, S.,** Green, J. T., & Bouton, M.E. (2015). *Inactivation of the prelimbic cortex attenuates context-dependent excitatory operant responding*. Poster presented at the 3rd annual Conference for the Vermont Center of Behavior and Health in October, 2015 (Burlington, VT).

2016

Trask, S., Shipman, M.L., Green, J.T., & Bouton, M.E. (2016). *Inactivation of the prelimbic cortex attenuates context-dependent excitatory operant responding*. Poster presented at the Eastern Psychological Association annual conference in March, 2016 (New York, NY).

Dantzler, J. M., Shipman, M. L., **Trask, S.,** Bouton, M. E., & Green, J. T. (2016). *Inactivation of the prelimbic cortex attenuates a new action, but not an old action*. Poster presented at the annual symposium for the Summer Neuroscience Undergraduate Research Fellowship in August, 2016 (Burlington, VT).

Schoenberg, H. L., Seyller, E., **Trask, S.,** Kirshenbaum, A. P., & Toufexis, D. J. (2016). *Methamphetamine pre-exposure produces habitual responding to sucrose in female, but not male, rats*. Poster presented at the Society for Behavioral Neuroendocrinology annual meeting in August, 2016 (Montreal, QC, Canada).

Shipman, M. L., **Trask, S.**, Bouton, M. E., & Green, J. T. (2016). *Inactivation of the prelimbic cortex attenuates responding of an undertrained by not overtrained action*. Poster presented at the annual meeting of the Pavlovian Society in September, 2016 (Jersey City, NJ).

Trask, S., & Bouton, M. E. (2016). *Reducing the negative impact of context change on an operant response*. Poster presented at the annual meeting of the Pavlovian Society in October, 2016 (Jersey City, NJ).

Trask, S., & Bouton, M. E. (2016). *Reducing the negative impact of context change on an operant response*. Poster presented at the 4th annual Conference for the Vermont Center of Behavior and Health in October, 2016 (Burlington, VT).

2017

Trask, S., & Bouton, M. E. (2017). *Retrieval cues associated with alternative reinforcement can attenuate reinforcement resurgence of an extinguished instrumental response*. Poster presented at the annual conference for Neuroscience, Behavior, and Health in January, 2017 (Burlington, VT).

Shipman, M. L., **Trask, S.**, Bouton, M. E., & Green, J. T. (2017). *Inactivation of the prelimbic cortex attenuates responding of an undertrained by not overtrained action*. Poster presented at the annual conference for Neuroscience, Behavior, and Health in January, 2017 (Burlington, VT).

Schoenberg, H. L., Seyller, E., **Trask, S.**, Kirshenbaum, A. P., & Toufexis, D. J. (2017). *Methamphetamine pre-exposure produces habitual responding to sucrose in female, but not male, rats*. Poster presented at the annual conference for Neuroscience, Behavior, and Health in January, 2017 (Burlington, VT).

Trask, S., & Bouton, M. E. (2017). *Cues associated with alternative reinforcement can attenuate reinforcement resurgence of an extinguished instrumental response*. Presented at the annual Dartmouth Neuroscience Symposium in April, 2017 (Hanover, NH). *Selected for 5-minute platform talk presentation.

Shipman, M. L., **Trask, S.**, Bouton, M. E., & Green, J. T. (2017). *Inactivation of the prelimbic cortex affects an undertrained, but not overtrained, action*. Poster presented at the annual University of Vermont Student Research Conference in April, 2017 (Burlington, VT).

Trask, S., & Bouton, M. E. (2017). *Cues associated with alternative reinforcement can attenuate reinforcement resurgence of an extinguished instrumental response*. To be presented at the annual meeting of the Society for the Quantitative Analysis of Behavior in May, 2017 (Denver, CO).

Honors and Awards

President's Scholarship, Kent State University, 2008-2012

Dean's List, Kent State University: 6 semesters

President's List, Kent State University: 1 semester

Outstanding Junior Psychology Major, Kent State University, 2010-2011 Academic Year
Graduate Student Senate Travel Grant, The University of Vermont, March 2014
Graduate Student Senate Travel Grant, The University of Vermont, March 2015
Outstanding Paper Presentation at the annual conference for Neuroscience, Behavior, and Health, The University of Vermont, January, 2016
Session Chair, Learning Papers IV: Elemental and Configural, The Annual Meeting of the Eastern Psychological Association, March 2016
Ronald Suiter Award Recipient, The University of Vermont, November 2016
Session Chair, Session 1, The Annual conference for Neuroscience, Behavior, and Health in January 2017
Honorable Mention: Outstanding Poster Presentation at the annual conference for Neuroscience, Behavior, and Health, The University of Vermont, January, 2017
Graduate Student Senate Travel Grant, The University of Vermont, March 2017
Kent State Alumni Association Outstanding New Professional Award Finalist, 2017

Teaching Experience

Courses Taught

Psychology 205: Learning, The University of Vermont
Psychological Science 111: Learning, Cognition, and Behavior, The University of Vermont

Graduate Teaching Assistant

Psychology 109: Research Methods I, Fall 2012
Psychology 110: Research Methods II, Spring 2013
Psychology 221: Physiological Psychology, Fall 2013
Psychology 104: Learning, Cognition, and Behavior, Spring 2014
Psychological Science 115: Biological Psychology, Fall 2015
Psychological Science 111: Learning, Cognition, and Behavior, Spring 2016

Invited Guest Lectures

Categorization and Generalization: Learning, Fall 2013, The University of Vermont
Cognition in Instrumental Learning: Learning, Cognition, and Behavior, Spring 2014, The University of Vermont
Automaticity: Learning, Cognition, and Behavior, Spring 2014, The University of Vermont
Mental Representations in Animals: Learning, Cognition, and Behavior, Spring 2014, The University of Vermont
Animal Models of Relapse: Research Methods, Spring 2015, Burlington College

The Role of the Prelimbic Cortex in Excitatory Operant Responding: Biopsychology, Fall 2015, The University of Vermont

Inactivation of the Prelimbic Cortex Attenuates Context-Dependent Operant Responding: Learning, Cognition, and Behavior, Spring 2016, The University of Vermont

Tutoring

Psychology tutor for the Athletic Resource Center, Kent State University, September 2010 – May 2012

Service

Graduate Student Representative, Department of Psychological Science, The University of Vermont, 2013 – 2015