

## CHRISTOPHER PEYTON WARD

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### EDUCATION

2004	Post-Doc	Harvard Medical School	Neuroscience
2003	Ph.D.	The University of Southern Mississippi	Experimental Psychology
2001	M.A.	The University of Southern Mississippi	Psychology
1998	B.S.	The University of Southern Mississippi	Psychology Minors: Chemistry & Music History and Theory

### PROFESSIONAL EXPERIENCE

#### Academic Appointments

2019-Present	<b>Professor</b>	Department of Psychology, University of Houston–Clear Lake
2012-2019	<b>Associate Professor</b>	Department of Psychology, University of Houston–Clear Lake
2008-2012	<b>Assistant Professor</b>	Department of Psychology, University of Houston–Clear Lake
2006-2008	<b>Research Assistant Professor</b>	Department of Physiological Sciences, University of Florida
2004-2006	<b>Assistant Professor</b>	Department of Psychology, Stonehill College
2003-2006	<b>Health Science Specialist</b>	VA Boston Healthcare System
2003-2004	<b>Research Fellow</b>	Department of Psychiatry, Harvard Medical School Laboratory of Neuroscience, PI: R.W. McCarley & R.E. Strecker
2001-2003	<b>Instructor</b>	Department of Psychology, University of Southern Mississippi
1998-2001	<b>Graduate Research Assistant</b>	Department of Psychology, University of Southern Mississippi Behavioral Neuroscience Laboratory, PI: J.G. McCoy Sleep Research Laboratory, PI: J.R. Harsh

#### Secondary Faculty Appointments

2012-present	<b>Adjunct Assistant Professor</b>	Department of Psychiatry & Behavioral Sciences, Baylor College of Medicine
2004-2006	<b>Lecturer</b>	Department of Psychiatry, Harvard Medical School

**Administrative Experience**

- 2018-2019 Program Director Representative for Administrative Team, School of Human Sciences and Humanities, UHCL
- 2015-2017 Faculty Representative for Administrative Team, School of Human Sciences and Humanities, UHCL
- 2013-present Director, Psychology Graduate Program, UHCL
- 2010-2016 Director, Animal Research Facility, UHCL

**GRANTS and CONTRACTS**

- 2018-2019 Faculty Research & Support Funds (FRSF), UHCL; *The Impact of Sleep Deprivation and Stress Reactivity on Temporal Discounting* (\$3,000; PI: G.L. Moreno; Role: Co-I)  
Status: Awarded
- 2016-2018 National Institute of Drug Abuse/NIH (N44DA-16-1208); *XDA - eXperimental Design Assistant, Phase II* (\$1,000,000; PI: W. Buras; Role: Sub-Contractor - \$350,000)  
Status: Awarded
- 2014-2020 Acadia Pharmaceuticals; *Evaluating the effect of a serotonergic drug to alleviate physical dependence on nicotine as indicated by sleep patterns, EEG and behavioral withdrawal signs* (\$150,000; PI: D.H. Malin; Role: Co-PI)  
Status: Awarded
- 2014-2015 AALAS Grants for Laboratory Animal Science; *A Minimally Invasive Electroencephalographic Procedure for Rats* (\$3,200; PI: C.P. Ward)  
Status: Completed
- 2014-2015 National Institute of Drug Abuse/NIH (N43DA-14-0044); *XDA - eXperimental Design Assistant* (\$149,936; PI: W. Buras; Role: Sub-Contractor - \$46,350)  
Status: Completed
- 2012-2013 Faculty Research & Support Funds (FRSF), UHCL; *Role of Sleep Deprivation in the Physiological Response to Psychosocial Stress* (\$6,000; PI: C.P. Ward)  
Status: Completed
- 2010-2013 National Institute of Mental Health/NIH(1 R15 MH087934-01A1); *Sleep Loss and Hippocampal Function* (\$284,000; PI: C.P. Ward)  
Status: Completed
- 2008-2010 Faculty Research & Support Funds (FRSF), UHCL; *Role of Adenosine in Cognitive Deficits due to Sleepiness* (\$6,000; PI: C.P. Ward)  
Status: Completed

- 2007 CVM Faculty Research Development Award Grant, UF; *Central mechanisms of obstructive sleep apnea in normal and hypertensive rats* (\$7,500; PI: A. Vovk; Role: Co-Investigator)  
Status: Completed
- 2007 CVM Faculty Research Development Award Grant, UF; *Interaction of Sleep and Hypertension* (\$7,500; PI: C.P. Ward)  
Status: Completed
- 2006-2007 Takeda Pharmaceutical; *Effectiveness of Ramelteon in Treatment of Alzheimer's* (\$194,916; Co-PIs: C.P. Ward & R.E. Strecker)  
Status: Completed
- 2005 Summer Undergraduate Research Experience, Stonehill College; *Effects of Sleep Fragmentation on the Prefrontal Cortex* (\$6,000; PI: C.P. Ward)  
Status: Completed
- 2004 Summer Undergraduate Research Experience, Stonehill College; *Hypoxia and Memory* (\$6,000; PI: C.P. Ward)  
Status: Completed
- 2001 Mississippi Psychological Association, Student Research Grant; *Effect of Ginkgo Biloba on Spatial Memory* (\$500; PI: C.P. Ward)  
Status: Completed

## PUBLICATIONS

\* Student authors

- Malin, D.H., Hetherington, S., Nghiem, D.M.\*, Ward, C.P., Kelling, N., Izygon, J.\*, Harrison-Walker, L.J., Campbell, J.\*, Hughes, R.\*, Buras, W. (2019). Software for designing rigorous and replicable preclinical research: The Experimental Design Accelerator. *Journal of Neuroscience Research*, 97, 1043-1050.
- Malin, D.H., Henceroth, M.M.\*, Elayoubi, J.\*, Campbell, J.R.\*, Anderson, A.\*, Goyarzu, P., Izygon, J.\*, Madison, C.\*, Ward, C.P., Burstein, E.S. (2018). A subtype-specific Neuropeptide FF receptor antagonist attenuates morphine and nicotine withdrawal syndrome in the rat. *Neuroscience Letters*, 684, 98-103.
- Ward, C.P., Wooden, J.I.\*, & Kieltyka, R.\* (2017). Effects of sleep deprivation on spatial learning and memory in juvenile and young adult rats. *Psychology & Neuroscience*, 10(1), 109-116.
- Kelling, N., Ward, C.P., Malin, D.H., Buras, W., & Hetherington, S. (2017). The use of human factors to address medical research replicability through the development of a software based solution. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 61(1).

- Gadam, S. \*, Elayoubi, J. \*, Ma, X., & Ward, C.P. (2015). Dysfunctional cognitions mediate the relationship between symptoms of depression, anxiety, and sleep quality in a non-clinical population. *Journal of Sleep Medicine and Disorders*, 2(5), 1031-1036.
- Malin, D.H., Schaar, K.L. \*, Izygon, J.I. \*, Sikirat, Y.J. \*, Duyen, M.N. \*, Henceroth, M.H. \*, Chang, Y. \*, Daggett, J.M. \*, & Ward, C.P. (2015). Validation and scopolamine-reversal of latent learning in the water maze utilizing a revised direct platform placement procedure. *Pharmacology Biochemistry and Behavior*, 135, 90-96.
- Wooden, J.I. \*, Pido, J. \*, Mathews, H. \*, Kieltyka, R. \*, Montemayor, B. \*, & Ward, C.P. (2014). Sleep deprivation impairs recall of social transmission of food preference in rats. *Nature and Science of Sleep*, 6, 129-135.
- Milone, J.M., Gottumukkala, A., Ward, C.P., & York, K.M. (2013). The Impact of Supervision on Internal Medicine Residents' Attitudes and Management of Depression in Primary Care: A Pilot Study. *Academic Psychiatry*, 37(2), 94-7.
- Klopp, C. \*, Garcia, C. \*, Schulman, A.H., Ward, C.P., & Tartar, J.L. (2012). Acute social stress increases biochemical and self report markers of stress without altering spatial learning in humans. *Neuroendocrinology Letters*, 34(4), 425-30.
- Ward, C.P., York, K.M., & McCoy, J.G. (2012). Risk of obstructive sleep apnea in double reed wind musicians. *Journal of Clinical Sleep Medicine*, 8(3), 251-255.
- McKenna, J.T., Christie, M.A., Jeffery, B.A. \*, McCoy, J.G., Lee, E., Connolly, N.P. \*, Ward, C.P., & Strecker, R.E. (2012). Chronic ramelteon treatment in a mouse model of Alzheimer's disease. *Archives Italiennes de Biologie*, 150(1), 5-14.
- Murphy, L. \*, Denis, R. \*, Ward, C.P., & Tartar, J.L. (2010). Academic stress differentially influences perceived stress, salivary cortisol and immunoglobulin-A in undergraduate students. *Stress*, 13(4), 365-370.
- Tartar, J.L., McKenna, J.T., Ward, C.P., McCarley, R.W., Strecker, R.E., & Brown R.E. (2010) Sleep fragmentation reduces hippocampal CA1 pyramidal cell excitability and response to adenosine. *Neuroscience Letters*, 469, 1-5.
- Ward, C.P., McCoy, J.G., McKenna, J.T., Connolly, N.P. \*, McCarley, R.W., & Strecker, R.E. (2009). Spatial learning and memory deficits following exposure to 24 h of sleep fragmentation or intermittent hypoxia in a rat model of obstructive sleep apnea. *Brain Research*, 1295, 128-137.
- McKenna, J.T., Cordeira, J.W. \*, Jeffrey, B. \*, Ward, C.P., Winston, S., McCarley, R.W., & Strecker, R.E. (2009). c-Fos protein expression is increased in cholinergic neurons of the rodent basal forebrain during spontaneous and induced wakefulness. *Brain Research Bulletin*, 80(6), 382-388.

- Ward, C.P., McCarley, R.W., & Strecker, R.E. (2009). Experimental sleep fragmentation impairs spatial reference but not working memory in rats. *Journal of Sleep Research*, 18(2), 228-244.
- Watson, S.L., McCoy, J.G., Fontenot, M.B., Hanbury, D.B., & Ward, C.P. (2009). L-Tryptophan and Correlates of Self-Injurious Behavior in Garnett's Bushbaby. *Journal of the American Association for Laboratory Animal Science*, 48(2), 185-191.
- Tartar, J.L., Ward, C.P., Cordeira, J.W.\*, Legare, S.L.\*, Blanchette, A.J.\*, McCarley, R.W., & Strecker, R.E. (2009). Experimental sleep fragmentation and sleep deprivation in rats increases exploration in an open field test of anxiety while increasing plasma corticosterone levels. *Behavioral Brain Research*, 197, 450-453.
- McKenna, J.T., Tartar, J.L., Ward, C.P., Thakkar, M.M., Cordeira, J.W.\*, McCarley, R.W., & Strecker, R.E. (2007). Sleep fragmentation elevates behavioral, electrographic and neurochemical measures of sleepiness. *Neuroscience*, 146(4), 1462-1473.
- McCoy, J.G., Bebis, A.C.\*, Tartar, J.T., Ward, C.P., McKenna, J.T., Baxter, M.G., McGaughy, J., McCarley, R.W., & Strecker, R.E. (2007). Experimental sleep fragmentation impairs attentional set-shifting in a rodent model of obstructive sleep apnea. *Sleep*, 30(1), 52-60.
- Tartar, J.L., Ward, C.P., McKenna, J.T., Thakkar, M.M., Arrigoni, E., Brown, R.E., McCarley, R.W., & Strecker, R.E. (2006). Hippocampal synaptic plasticity and spatial learning are impaired in a rat model of sleep fragmentation. *European Journal of Neuroscience*, 23(10), 2739- 48.
- Ward, C.P., Harsh, J.R., York, K.M., Stewart, K.L.\*, & McCoy, J.G. (2004). Modafinil facilitates performance on a delayed non-matching to position swim task in rats. *Pharmacology, Biochemistry, and Behavior*, 78(4), 735-741.
- McCoy, J.G., Strawbridge, C., McMurtrey, K.D., Brower, V.G., & Ward, C.P. (2003). A Re-evaluation of the effects of tetrahydropapaveroline on ethanol consumption in rats. *Brain Research Bulletin*, 60(1-2), 59-65.
- Ward, C.P., Redd, K.\*, Williams, B., Caler, J., Luo, Y., & McCoy, J.G. (2002). Ginkgo biloba extract: Cognitive enhancer or anti-stress buffer. *Pharmacology, Biochemistry, and Behavior*, 72(4), 913-922.
- Williams, B., Luo, Y., Ward, C., Redd, K.\*, Gibson, R.\*, Kuczaj, S., & McCoy, J.G. (2001). Environmental enrichment improves spatial memory and induces hippocampal CREB expression. *Physiology and Behavior*, 73, 649-658.

**PUBLICATIONS IN PREPARATION**

Bautista, J.\*, Kelling, A., Mathews, H.\*, Nghiem, D.M.\*, Shahin, J.\*, McGhiey, D.\*, Ward, C.P. (submitted). A minimally invasive electroencephalographic procedure for rats.

Kelling, A.S., Snyder, R.J., Ward, C.P., Bloomsmith, M.A., Laudenslager, M.L., & Maple, T.L. (revise and resubmit). An examination of salivary cortisol concentrations and behavior in captive African elephants (*Loxodonta africana*) at Zoo Atlanta.

Nghiem, D.M.\*, Malin, D.H., McGhiey, D.\*, Tijerina, R.\*, Odom, E.\*, Henceroth, M.\*, & Ward, C.P. Effect of caffeine and sleep on memory formation through the novel object recognition task.

Bistricky, S.L., Walther, C., Balderas, J., Prudon, J., Ward, C.P. Distinct sleep deficits and depression yield distinct neurocognitive responses to social information.

Wooden, J.I.\*, Ward, C.P. Effects of sleep deprivation on ultrasonic vocalizations during play behavior in rats.

**SELECTED PUBLISHED ABSTRACTS and PROFESSIONAL PRESENTATIONS**

Campbell, J.\*, Tsai, P.\*, Chapman, H.L.\*, Bailey, V.E.\*, Bratvedt, L.D.\*, Ward, C.P., Burstein, E., Malin, D.H. (2019). A 5HT<sub>2A</sub> receptor inverse agonist reduces anxiety measures in a rodent model of PTSD. *Society for Neuroscience Abstracts*.

Henceroth, M.\*, Campbell, J.\*, Elayoubi, J.\*, Madison, C.\*, Anderson, A.\*, Izygon, J.\*, Nghiem, D.M.\*, Goyarzu, P. Ward, C., Malin, D. (2018). Neuropeptide FF Receptor Antagonist Attenuates Morphine and Nicotine Withdrawal Syndrome in Rat. Presented at Southwestern Psychological Association. Houston, TX.

Malin, D.H., Elayoubi, J.\*, Henceroth, M.M.\*, Campbell, J.R.\*, Madison, C.A.\*, Ward, C.P. (2017). A subtype-selective neuropeptide FF antagonist attenuates spontaneous morphine withdrawal syndrome. *Society for Neuroscience Abstracts*.

Malin, D.H. & Ward, C.P. (2017). Experimental Design Accelerator (XDA): Aiding rigorous & replicable preclinical research design on drug dependence. Presented at Behavior, Biology, and Chemistry. San Antonio, TX.

Roberts, C.\*, Harper, K.\*, Short, M., Ward, C., Bistricky, S. (2017). Bedtime Behaviors: The relationship of children's sleep disturbance behaviors and parental variables. Presented at Southwestern Psychological Association. San Antonio, TX.

Neyhart, E.\*, Shahin, J.C.\*, Bautista, J.J.\*, Izygon, J.J.\*, Nghiem, D.M.\*, Henceroth, M.M.\*, Malin, D.H., Ward, C.P. (2016). Disruption of sleep patterns in rats during continuous nicotine infusion. *Society for Neuroscience Abstracts*, 325.16.

- Shahin, J.C.\*, Bautista, J.J.\*, Izygon, J.J.\*, Nghiem, D.M.\*, Henceroth, M.M.\*, Burstein, E.S., Ward, C.P., Malin, D.H. (2016). Effects of nicotine withdrawal and Volinanserin on sleep quality in the rat. *Society for Neuroscience Abstracts*, 325.15.
- Havens, J.L.\*, Davis, T.\*, Throckmorton, J.\*, Vallejo, A.\*, Kelling, N.J., Ward, C.P. (2016). Effects of sleep deprivation on the autonomic response to a psychosocial stress task. *Sleep*, 39(supp), A97.
- Neyhart, E.\*, Shahin, J.\*, Butista, J.\*, Izygon, J.J.\*, Nghiem, D.M.\*, Henceroth-Chomiak, M.\*, Malin, D.H., Ward, C.P. (2016). Effect of continuous nicotine infusion on sleep patterns in rats. *Sleep*, 39(supp), A97.
- Havens, J.\*, Ward, C. (2016). The role of sleep deprivation and psychosocial stress on heart rate variability. Presented at Southwestern Psychological Association. Dallas, TX.
- Ward, C.P., Bautista, J.\* (2015). A minimally invasive electroencephalographic procedure for rats. Presented at the American Association for Laboratory Animal Science National Meeting. Phoenix, AZ. P221.
- Malin, D.H.\*, Ward, C.P., Hetherington, S.A., Izygon, J.J.\*, Nghiem, D.M.\*, Kelling, N., Buras, W.R. (2015). Interactive training software for designing, conducting and documenting rigorous preclinical experiments on drug dependence. *Society for Neuroscience Abstracts*, 25.06SA.
- Ward, C.P., Shahriari, S.R.\*, Peszka, J.J., Mastin, D.F., Ma, X., Harsh, J. (2015). Relationship of sleep disorders and behaviors to sleep starts. *Sleep*, 38(supp), A250.
- Izygon, J.J.\*, Nghiem, D.M.\*, Shahin, J.\*, McGheiy, D.\*, Madison, C.\*, Masood, A.\*, Henceroth, M.\*, Srinivasarao, G.\*, Malin, D., Ward, C.P. (2014). The effects of sleep deprivation on pre and post-training in a one-trial discriminative learning task. *Society for Neuroscience Abstracts*, 258.16.
- Bautista, J.\*, Malin, D., Mathews, H.\*, Nghiem, D.M.\*, Izygon, J.J.\*, Shahin, J.\*, Madison, C.A.\*, McGhiey, D.\*, Ward, C.P. (2014). A minimally invasive method for the analysis of sleep/wake behavior in rats. *Society for Neuroscience Abstracts*, 660.04.
- Vallejo, A.\*, Montemayor, B.\*, Shahin, J.\*, Masood, A.\*, Pido, J.\*, Kieltyka, K.\*, Wooden, J.\*, McDaniel, N.\*, Ward, C.P., Ma X. (2014). Role of sleep deprivation and psychological stress in the regulation of emotion. Presented at the Association for Psychological Science Annual Convention, San Francisco, CA.
- Montemayor, B.\*, Vallejo, A.\*, Ward, C. (2014). Effects of sleep deprivation on motor learning of a musical task. Presented at Southwestern Psychological Association. San Antonio, TX.

- Vallejo, A.\*, Montemayor, B.\*, Ward, C. (2014). Role of sleep deprivation and psychological stress in the regulation of emotion. Presented at Southwestern Psychological Association. San Antonio, TX.
- Wooden, J.I.\*, Kieltyka, R.\*, Pido, J.\*, Montemayor, B.\*, Ward, C.P. (2013). Sleep deprivation increases 50 kHz ultrasonic vocalizations emitted during play behavior in rats. *Society for Neuroscience Abstracts*, 779.06.
- Mathews, H.L.\*, Ward, C.P., Thompson, L.D.\*, Negrete, A.P.\*, Bautista, J.\*, Goyarzu, P., Malin, D.H. (2013). Nicotine withdrawal alters sleep and EEG in the rat. *Society for Neuroscience Abstracts*, 815.26.
- Wooden, J.\*, Ward, C.P. (2013). Online training of manual sleep staging in rodents. *Sleep*, 36(supp), A109.
- Mathews, H.L.\*, Malin, D.H., Feiler, P.\*, Thompson, L.\*, Bautista, J.\*, Negrete, A.\*, Goyarzu, P., Ward, C.P. (2012). Effect of nicotine withdrawal on sleep quantity and quality in rats. *Society for Neuroscience Abstracts*, 486.25.
- Hood, K.N.\*, Taylor, J.\*, Nungaray, K.\*, Agüero, E.\*, Wooden, J.\*, Montemayor, B.\*, Vallejo, A.\*, Pido, J.\*, Puzdrowski, R.L., Ward, C.P. (2012). Effect of sleep fragmentation on the social transmission of food preference in rats. *Society for Neuroscience Abstracts*, 487.01.
- Nungaray, K.\*, Agüero, E.\*, Hood, K.\*, Taylor, J.\*, Wooden, J.\*, Bautista, J.\*, Mcdaniel, N.\*, Vallejo, A.\*, Kieltyka R.\*, Ward, C.P. (2012). Effect of sleep fragmentation on spatial learning and memory in juvenile rats. *Society for Neuroscience Abstracts*, 487.21.
- Hood, K.N.\*, Daggett, J.M.\*, Campbell, J.\*, Montemayor, B.\*, Vaksman, Y.\*, Malin, D.H., Ward, C.P. (2011). The effects of caffeine on a one-trial learning task. *Society for Neuroscience Abstracts*, 934.04.
- Ward, C.P., Miller, T.W.\*, Daggett, J.M.\*, McCoy, J.G., Christie, M. (2011). Effect of sleep deprivation on learning strategies in the water maze. *Society for Neuroscience Abstracts*, 721.03.
- Malin, D.H., Schaar, K.L.\*, Daggett, J.M.\*, Chang, Y.H.\*, Claussen, C.\*, Barclay, P.\*, Cohen, N.\*, Berguzar, B.Y.\*, Ward, C.P. (2010). An effective procedure for latent working memory in the water maze. *Society for Neuroscience Abstracts*, 806.5.
- Ward, C.P., Miller, T.W.\*, Schaar, K.L.\* (2010). Spatial strategies utilized by sleep deprived rats. *Sleep*, 33(supp), A43.
- Ward, C.P., Poch, D.\*, Claussen, C.M.\*, Luther, T.\*, Ghura, S.\*, Pinales, R.\*, Harris, M.\* (2009). Relationship between virtual water maze learning and sleep. *Society for Neuroscience Abstracts*, 376.5.



- Malin, D., Alexander, M.\* , Chang, Y.H.\* , Martinez, A.\* , Cohen, N.Y.\* , Claussen, C.\* , Salodkar, A.\* , Lee, D.R.\* , Goyarzu, P., Ward, C.P. (2009). Visual non-spatial working memory in the Morris water maze. *Society for Neuroscience Abstracts*, 875.11.
- Ward, C.P., York, K.M., Vance K.K.\* , Calzadilla, A.S.\* , Walch, F.J.\* , Song, J.J.\* , Sharf, M.\* (2009). Risk of Obstructive Sleep Apnea in Wind Musicians. *Sleep*, 32(supp), A233.
- Ward, C.P., Connolly, N.P.\* , Christie, M.A., McCarley, R.W., & Strecker, R.E. (2008). Spatial Memory Impairments Due to Sleep Fragmentation Depend on Rat Strain and Task Difficulty. *Sleep*, 31(supp), A131.
- Reynolds, C.R.\* , Giammalvo, S., Ward, C.P.,& Hayward, L.F. (2007). Respiratory variability in neonatal rats is state dependant. *Society for Neuroscience Abstracts*, 33, 627.11.
- Ward, C.P. & Hayward, L.H. (2007). Changes in Heart Rate Variability in Spontaneously Hypertensive Rat Following Acute Sleep Deprivation. *Sleep*, 30(supp), A35.
- McCoy, J.G., Ward, C.P., McKenna, J.T., Connolly, N.\* , McCarley, R.W., Strecker, R.E. (2007). Effects of Experimental Sleep Fragmentation and Intermittent Hypoxia on Water Maze Performance in Rats. *Sleep*, 30(supp), A203.
- McKenna, J.T., Cordeira, J.\* , Tartar, J.L., Ward, C.P., McCoy, J.G., Lee, E., Thakkar, M.M., McCarley, R.W., & Strecker, R.E. (2007). Measurement of the propensity to sleep by means of a modified rodent multiple sleep latency test. *Sleep*, 30(supp), A20.
- Ward, C.P., Heard, M.\* , Tartar, J.L., McKenna, J.T., McCarley, R.W., & Strecker, R.E. (2006). Effect of experimental sleep fragmentation on spatial working memory in rats. *Society for Neuroscience Abstracts*, 32, 361.11.
- McCoy, J.G., Mitchell, D.C.\* , Harsh, J.R., Pratt, D.\* , Ward, C.P., & Echevarria, D.J. (2006). Lack of effect of modafinil on attentional set-shifting in rats. *Society for Neuroscience Abstracts*, 32, 160.17.
- Strecker, R.E., Tartar, J.L., Ward, C.P., Legare, S.L.\* , Blanchette, A.J.\* , Cordeira, J.W.\* , Bebis, A.J.\* , & McCarley, R.W. (2006). Treadmill-induced sleep disruption increases open field exploration while increasing plasma corticosterone levels in rats. *Society for Neuroscience Abstracts*, 32, 136.10.
- McKenna, J.T., Cordeira, J.W.\* , Tartar, J.L., Ward, C.P., Thakker, M.M., Winston, S., Cookson, A., Lydon, R., McCarley, R.W., & Strecker, R.E. (2006). Basal forebrain c-fos expression is increased in cholinergic neurons during spontaneous and induced wakefulness. *Society for Neuroscience Abstracts*, 32, 458.18.

- Tartar, J.L., Legare, S.L.\*, Cordeira, J.W.\*, Bebis, A.C.\*, Ward, C.P., McCarley, R.W., & Strecker, R.E. (2006). Sleep fragmentation decreases anxiety related behavior while increasing corticosterone in rats. *Sleep*, 29(supp), A128.
- Ward, C.P., Blanchette, A.J.\*, Tartar, J.L., Strecker, R.E., McCarley, R.W., Saper, C.B., & Lu, J. (2005). Effect of lesions of the ventrolateral preoptic nucleus on water maze performance. *Society for Neuroscience Abstracts*, 31, 309.13.
- McKenna, J.T., Tartar, J.L., Ward, C.P., Thakkar, M.M., Cordeira, J.\*, Ling, L., McGuire, M., McCarley, R.W., & Strecker, R.E. (2005). A rodent model of obstructive sleep apnea: measures of vigilance states and adenosine. *Society for Neuroscience Abstracts*, 31, 700.11.
- Tartar, J.L., McCoy, J.G., Ward, C.P., McKenna, J.T., Andrito, N., Thakkar, M.M., Brown, R.E., McCarley, R.W., & Strecker, R.E. (2005). Polysomnographic changes in a rat model of sleep fragmentation. *Society for Neuroscience Abstracts*, 31, 309.2.
- Strecker, R.E., Bebis, A.C.\*, Tartar, J.L., McCoy, J.G., Ward, C.P., Buckley, E.N.\*, McKenna, J.T., Christie, M.A., Thakkar, M.M., Baxter, M.G., McGaughy, J., McCarley, R.W. (2005). Sleep fragmentation impairs complex learning in an extra-dimensional set-shifting task. *Society for Neuroscience Abstracts*, 31, 309.1.
- Ward, C.P., McCoy, J.G., Tartar, J.L., McKenna, J.T., McCarley, R.W., & Strecker, R.E. (2005). Hippocampal-Dependent Memory in a Rat Model of Obstructive Sleep Apnea. *Sleep*, 28(supp), A7.
- Tartar JT, McKenna JT, Ward CP, Strecker RE, McCarley RW, & Brown RE. (2005). Changes in hippocampal synaptic plasticity after sleep interruption in a rat model of obstructive sleep apnea. *Sleep*, 28(supp), A139.
- Ward, C.P., McKenna, J.T., McGaughy, J.A., Baxter, M.G., McCarley, R.W., & Strecker, R.E. (2004). Total Sleep Deprivation Prior to Acquisition Impairs Water Maze Retention. *Society for Neuroscience Abstracts*, 30, 77.2.
- McKenna, J.T., Strecker, R.E., Ward, C.P., Thakkar, M.M., Ling, L., McGuire, M., Zelenchuk, A., Dauphin, L.J., Mulkern, K.J., & McCarley, R.W. (2004). Levels Of Basal Forebrain Adenosine In A Rodent Model Of Obstructive Sleep Apnea. *Society for Neuroscience Abstracts*, 30, 78.11.
- Ward, C.P., Shaw, P., Dauphin, L.J., McKenna, J.T., McCarley, R.W., & Strecker, R.E. (2004). Comparison of Sleep Homeostasis in BMAL1 KO Mice and *Drosophila* *cyc*<sup>01</sup> and *cyc*<sup>02</sup> mutants. *Sleep*, 27(supp), 845.
- Ward, C.P., Harsh, J.R., York, K.M., Stewart, K.L.\*, & McCoy, J.G. (2003). Modafinil facilitates working memory on a delayed non-matching to position swim task. *Society for Neuroscience Abstracts*, 29, 941.4.

- Shaw, P., Ward, C.P., Mulkern, K.J., Dauphin, L.J., Stronge, A.M., McKenna, J.T., McCarley, R.W., & Strecker, R.E. (2003). Evaluation of Sleep Homeostasis in BMAL1 KO Mice. *Society for Neuroscience Abstracts*, 29, 16.3.
- Strawbridge, J.C., McMurtrey, K.D., McCoy, J.G., & Ward, C.P. (2003). Tetrahydropapaveroline in vivo: A possible biochemical link to alcoholism in mammals. *Journal of the Mississippi Academy of Sciences*, 48(1), 48.
- McCoy, J.G., Strawbridge, J.C., McMurtrey, K.D., & Ward, C. (2002). Tetrahydropapaveroline and Volitional Ethanol Consumption: A Re-Evaluation. *Society for Neuroscience Abstracts*, 28, 810.10.
- Ward, C. & McCoy, J. (2002). Ginkgo biloba Extract: Cognitive Enhancer or Anti-Stress Buffer. Presented at the American Psychological Society Annual Convention. New Orleans, LA.
- Ward, C., Luo, Y., Williams, B., Redd, K.\*, & McCoy, J. (2001). Effects of an Extract of Ginkgo Biloba (EGb761) on spatial memory, anxiety, and CREB Expression. Presented at the International Behavioral Neuroscience Society Meeting. Cancun, Mexico.
- Williams, B., Luo, Y., Ward, C., Redd, K.\*, Gibson, R.\*, Kuczaj, S., & McCoy, J. (2001). Environmental enrichment improves spatial memory and induces hippocampal CREB expression. Presented at the International Behavioral Neuroscience Society Meeting. Cancun, Mexico.
- LeBourgeois, M., Harsh, J., Baxter, C., & Ward, C. (2000). Children's sleep and parental practice: timing, order, and composition of bedtime routines. *Sleep*, 23(2 Suppl), A200.
- Ward, C., Mastin, D., Peszka, P., Harsh, J., McGahey, M., & Thompson, M. (1998). Correlates and Consequences of Sleep Starts. *Sleep*, 21(3 Suppl), 228.
- Mastin, D., Peszka, J., LeBourgeois, M., Ward, C., & Harsh, J. (1998). Sleep research and the word-wide web. *Sleep*, 21(3 Suppl), 293.
- Thames, S., Panjnani, K., & Ward, C.P. (1996). Structure-Property relationship Studies of Pendent Organosilane Polyarylates and Aramids. Presented at the American Chemical Society National Meeting, New Orleans, LA.

#### **NON-PEER REVIEWED PUBLICATIONS**

- Ward., C.P. (2019, February). Good sleep is key for teens' concentration, overall health. *Connection* [Newspaper].

## **OTHER PRESENTATIONS**

- 10/2018      Determination and Justification of Animal Numbers. University of Houston, Houston, TX.
- 2/2018      Sleep: Habits, Solutions, and Strategies. Friday Morning Continuing Education Series, UHCL, Houston, TX.
- 1/2017      Determination and Justification of Animal Numbers. University of Houston, Houston, TX.
- 11/2015      Faculty positions at liberal arts and comprehensive universities. Developmental Cognitive Neuroscience Brown Bag Lecture Series, University of Houston, Houston, TX.
- 11/2014      Why I Never Wake a Sleeping Student. Provost Scholarly Lecture Series, UHCL, Houston, TX.
- 11/2011      A discussion with composer Michael Gandolfi on “Of Angels and Neurons.” New England Philharmonic, Boston, MA.
- 11/2010      Reading your mind: the science of *Inception*. UH-Clear Lake Film and Speaker Series. Houston, TX.
- 7/2007      Consequences of sleep loss. University of Florida Neuro Noons Symposia Series, Gainesville, FL.
- 12/2005      Consequences of obstructive sleep apnea in a rodent model. University of Mississippi Medical Center, Jackson, MS.
- 11/2004      Health and cognitive benefits of proper sleep hygiene. Harvard University Health Services, Cambridge, MA.

## **TEACHING EXPERIENCE**

### **University of Houston–Clear Lake**

*Graduate:* Experimental Methodology; Quantitative Analysis I; Biological Basis of Behavior; Research Design and Statistics I & II; Psychoactive Drugs; Sleep and Dreaming; Neuroscience Research Methods

*Undergraduate:* Brain and Behavior; Behavioral Statistics; Learning; Writing in Psychology; Capstone in Psychology; Research in Behavioral Neuroscience

### **Baylor College of Medicine**

*Post-Graduate:* Research & Scientific Methodology (Dept. of Psychiatry & Behavioral Sciences)

**University of Florida**

*Undergraduate:* Physiological Psychology (Dept. of Psychology); Physiology and Molecular Biology of Animals (Dept. of Zoology)

**Stonehill College**

*Undergraduate:* Brain and Behavior; Introduction to Statistics; General Psychology; Internship in Psychology

**University of Southern Mississippi**

*Graduate:* Biostatistics II (Dept. of Public Health)

*Undergraduate:* Behavioral Neuroscience; Psychology of Learning; Experimental Psychology; Introduction to Statistics in the Behavioral Sciences; Introduction to Psychology

**Thesis Advisement**

**Chaired or Co-Chaired\***

Krystal Schaar\*, '11; Jenny Daggett, '11; Terri Miller, '11; Kimberly Hood, '11; Hunter Mathews\*, '13; Jessica Wooden, '13; Arthur Vallejo, '13; Bertha Montemayor, '14; Jesus Bautsta, '14; Ryan Kieltyka, '14; Sarah Shahriari, '14; Jonathan Izygon\*, '15; Duyen Nghiem\*, '15; Jennifer Havens, '16; Daryl McGhiey\*, '16; Jacqueline Shahin\*, '16; Erin Neyhart, '16; Meagan Sosa, '16; Ryan Hughes\*, '17; Tasha Davis\*, '17, Clarissa Aguilar, present; Jack Throckmorton, present

**Member Thesis Committee**

Melodee Alexander, '09; Jennifer Minarcik, '10; Paul Barclay, '11, Elaine Barclay, '11, Alan Vela, '11; Michelle McPeake, '13, April Amos, '13; Sikirat Jabitta, '14; Mallori Henceroth '15; Joanne Elayoubi '16; Caitlin Madison, '16; Leah Jorewicz, '18

**Member Dissertation Committee**

Whitney Urane, present; Behnaz Darban, present

**EDITORIAL ACTIVITIES**

**Editorial Boards**

Journal of Sleep Medicine and Disorders  
International Journal of Neurology Research  
Austin Journal of Sleep Disorders

**Journals – ad hoc review**

Sleep; Behavioural Brain Research; Neuropsychopharmacology; Pharmacology, Biochemistry, and Behavior; Frontiers in Sleep and Chronobiology; BMC Neuroscience; Neuroscience Letters; Peptides; International Journal of Comparative Psychology; Neurobiology of Learning and Memory; Neurobiology of Disease; Journal of Ethnopharmacology; Nature and Science of Sleep; Behavioral and Brain Functions; Comparative Medicine; PLOS ONE; Acta Neurobiologicae Experimentalis; Patient Preference and Adherence; Experimental Neurology,

Journal of Neuroscience Methods; Journal of Herbal Medicine; Neuropsychiatric Disease and Treatment

**Textbooks – ad hoc review**

Pearson Allyn & Bacon; Prentice Hall; Sage

**Conference Abstract Reviewer**

Association of Professional Sleep Societies; Southwestern Psychological Association

**PROFESSIONAL SERVICE**

**Professional**

2019 Member, Organizing Committee, Sleep Research Society Data Blitz  
 2019 Feb Ad hoc Grant Reviewer, NASA  
 2018 Jul Ad hoc Grant Reviewer, NASA  
 2017-2020 Member, Membership Committee, Sleep Research Society  
 2010-2011 Member, Congressional Liaison Committee, Sleep Research Society  
 2009-2012 Member, Membership and Communication Committee, Sleep Research Society

**University of Houston System**

2015-present Vice Chair, Institutional Animal Care and Use Committee (IACUC)  
 2013-2015 Member, University Faculties Executive Committee  
 2010-2015 Member, Institutional Animal Care and Use Committee (IACUC)  
 2009-2010 Alternate Member, Institutional Animal Care and Use Committee (IACUC)

**University of Houston–Clear Lake**

2018-2020 Chair, Facilities and Support Services Committee  
 2018-2019 Chair, HSH Committee on Educational Policy  
 2018-present Chair, Institutional Animal Care and Use Committee (IACUC)  
 2017-2018 Vice Chair, Institutional Animal Care and Use Committee (IACUC)  
 2016-2019 Member, HSH Post-tenure Review Committee  
 2015-2017 Past-President, Faculty Senate (two terms)  
 2015-2017 Convener, School of Human Sciences and Humanities  
 2015-2016 Faculty Representative, Campus Carry Workgroup  
 2014-2015 President, Faculty Senate  
 2013-2018 Member, Committee for Education Policy  
 2013-2014 President-Elect, Faculty Senate  
 2012-2013 Chair, Faculty Senate Budget Committee  
 2011-2012 Faculty Representative, University Mascot Advisory Team  
 2010-2013 Faculty Representative, University Planning and Budgeting Committee  
 2010-2013 HSH Representative, Faculty Senate  
 2010-2016 Coordinator, Student Data Collection Day  
 2009-2013 Faculty Supervisor, Departmental Statistics Teaching Assistants  
 2009-2013 Faculty Co-Advisor, Psi Chi  
 2008-2017 Member, Institutional Animal Care and Use Committee (IACUC)

**Search Committees**

2019	Co-Chair, Search for Assistant VP of Information Technology/CIO
2018-2019	Member, Search Committee for VP of Advancement
2018	Member, Search Committee for Associate VP of Marketing and Communications
2016-2017	Chair, Search Committee for Psychology Faculty (Neuroscience)
2016-2017	Member, Search Committee for Psychology Faculty (School Psychology)
2016-2017	Member, Search Committee for Psychology Faculty (Clinical Psychology)
2015-2016	Member, Search Committee for Psychology Faculty (School Psychology)
2015	Member, Search Committee for Environmental Health & Safety Technicians
2014-2015	Member, Search Committee for Psychology Faculty (School Psychology)
2014	Member, Search Committee for Psychology Faculty (School Psychology)
2013-2014	Chair, Search Committee for Psychology Faculty (Open)
2013-2014	Member, Search Committee for Psychology Faculty (Clinical Psychology)
2013-2014	Member, Search Committee for Nursing Faculty (two positions)
2013-2014	Member, Search Committee for Public Health Faculty
2013	Member, Search Committee for Environmental Health & Safety Coordinator
2012-2013	Member, Search Committee for Psychology Faculty (Cognitive Psychology)
2012-2013	Member, Search Committee for Psychology Faculty (Family Therapy)
2011-2012	Member, Search Committee for Psychology Faculty (Social Psychology)
2010-2011	Member, Search Committee for Psychology Faculty (Social Psychology)
2009-2010	Member, Search Committee for Psychology Faculty (Learning Psychology)
2009	Member, Search Committee for Grant Writer

**Previous Institutions**

2005-2006	Member, Student Affairs Committee, Stonehill
2005-2006	Faculty Advisor, Concert Band, Stonehill
2004-2006	Faculty Advisor, Psychology Society, Stonehill
2002-2003	Member, Search Committee for College Dean, USM
2001-2002	Member, Campus Advisory Committee for University President Search, USM
2001-2002	Member, Search Committee for Psychology Faculty, USM
2001-2002	Member, University Transportation Committee, USM
2001-2002	Member, University Technology Committee, USM

**AWARDS and HONORS**

2016	University Faculty Fellowship, UHCL
2009	Abstract selected by the American Academy of Sleep Medicine for press release
2007	Honorable Mention Abstract Award, Sleep Research Society
2006	SfN Abstract selected by the Education and Communication Committee for Neuroscience 2006 Press Book and press conference
2004	Trainee Merit Based Travel Award, Association of Professional Sleep Societies
2003	SfN Abstract selected by the National Center on Sleep Disorders Research for Sleep and Circadian Biology DataBlitz
2002	Department of Psychology Outstanding Graduate Research Award, USM
2001-2002	President, Graduate Student Association, USM
1998	Trainee Travel Award, Association of Professional Sleep Societies

1998 Honors Graduate, USM  
1995 Valspar Scholarship for Outstanding Undergraduate Research, USM  
1994-1998 Academic Excellence Scholarship, USM

**PROFESSIONAL SOCIETY MEMBERSHIP**

2013-present Texas Branch American Association for Laboratory Animal Science  
2013-present Southwestern Psychological Association  
2002-present Society for Neuroscience  
1998-present Sleep Research Society