CHRISTOPHER P. WARD

University of Houston–Clear Lake
2700 Bay Area Blvd., Houston, TX 77058
E-mail: wardchris@uhcl.edu

EDUCATION

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

PROFESSIONAL EXPERIENCE

2025-present	**Chair**, Department of Psychological and Nursing Sciences, University of Houston–Clear Lake
2021-2025	**Chair**, Department of Psychology, University of Houston–Clear Lake
2019-present	**Professor,** Department of Psychology, University of Houston–Clear Lake
2013-2021	**Director,** Psychology Graduate Program, University of Houston–Clear Lake
2012-2019	**Associate Professor,** Department of Psychology, University of Houston–Clear Lake
2012-2022	**Adjunct Faculty,** Department of Psychiatry & Behavioral Sciences, Baylor College of Medicine
2010-2016	**Director,** Animal Research Facility, University of Houston–Clear Lake
2008-2012	**Assistant Professor,** Department of Psychology, University of Houston–Clear Lake
2006-2008	**Research Assistant Professor,** Department of Physiological Sciences, University of Florida
2004-2006	**Lecturer,** Department of Psychiatry, Harvard Medical School
2004-2006	**Assistant Professor,** Department of Psychology, Stonehill College
2003-2006	**Health Science Specialist,** VA Boston Healthcare System
2003-2004	**Research Fellow,** Department of Psychiatry, Harvard Medical School
2001-2003	**Instructor,** Department of Psychology, University of Southern Mississippi

GRANTS and CONTRACTS

External

2025-2032 NIH/National Center for Advancing Translational Sciences (UM1 TR005443); *Greater Gulf Coast Translational Science Alliance* ($28,781,574; PI: R.J. Urban; Role: Campus co-Lead)
Status: Awarded

2014-2025 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* ($300,000; PI: D. Malin; Role: Co-PI)
Status: Active

2024-2025 CustomGPT, *AI Research Grant* ($3,000; PI: N. Kelling; Role: Co-I)
Status: Completed

2016-2018 NIH/National Institute of Drug Abuse (N44DA-16-1208); *XDA - eXperimental Design Assistant, Phase II* ($1,000,000; PI: W. Buras; Role: Sub-Contractor - $350,000)
Status: Completed

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 NIH/National Institute of Drug Abuse (N43DA-14-0044); *XDA - eXperimental Design Assistant* ($149,936; PI: W. Buras; Role: Sub-Contractor - $46,350)
Status: Completed

2010-2013 NIH/National Institute of Mental Health(R15 MH087934-01A1); *Sleep Loss and Hippocampal Function* ($284,000; 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

Intramural

2024-2025 OER Grant Program, UHCL ($5,000; PI: A. Kelling; Role: Co-I)
Status: Completed

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: 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

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

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

PUBLICATIONS
* Student authors

Tsai, P.H.*, Morales, E.R.*, Reed, Y.Y.*, Qamar, H.*, Jones, E.F.*, Saja, G.*, Ward, C.P., Burstein, E.S., Moreno, G.L., & Malin, D.H. (2025). 5-HT2A receptor inverse agonist attenuates morphine withdrawal syndrome and its aversiveness in rats. Behavioural Pharmacology. DOI: 10.1097/FBP.0000000000000832

Kelling, A.S., Snyder, R.J., Ward, C.P., Bloomsmith, M.L., & Maple, T.L. (2024). An examination of salivary cortisol concentrations and behaviour in three African elephants Loxodonta africana at Zoo Atlanta. *Journal of Zoo and Aquarium Research*, *12*(2), 79–87.

Malin, D. H., Tsai, P. H.*, Campbell, J. R.*, Moreno, G. L., Chapman, H. L.*, Suzaki, A.*, Keivan, M. S.*, Gibbons, K. M.*, Morales, E. R.*, Burstein, E. S., & Ward, C. P. (2023). Pimavanserin reverses multiple measures of anxiety in a rodent model of post-traumatic stress disorder. *European journal of pharmacology*, *939*, 175437.

Bistricky, S.L., Walther, C., Balderas, J., Prudon, J., Ward, C.P., Ingram, R.E., & Atchley, R.A. (2021). Dysfunctional sleep insufficiency and reduced P3 attentional response to positive social information. *Sleep and Biological Rhythms, 19*, 237-245.

McCoy, J.G. & Ward, C.P. (2021) Stress. In Fahmy, R. (Ed.), *NASM Certified Wellness Coach.* National Academy of Sports Medicine.

McCoy, J.G. & Ward, C.P. (2021) Emotion Processing. In Fahmy, R. (Ed.), *NASM Certified Wellness Coach*. National Academy of Sports Medicine.

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., McCarely, 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.

OTHER PUBLICATIONS

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

SELECTED PUBLISHED ABSTRACTS and PROFESSIONAL PRESENTATIONS

Tsai, P.H.*, Jones, E.F.*, Qamar, H.*, Saja, G.*, Morales, E.R.*, Reed, Y.Y.*, Ward, C.P., Moreno, G.L., Burstein, E.S., & Malin, D.H. (2025). *Society for Neuroscience Abstracts*

Tsai, P.H*, Morales, E.*, Nino, S.*, Deleon, I.*, Philip, K.*, Saji, G.*, Gonzalez, R.*, Reed, Y.*, Moreno, G., Ward, C.P., Malin, D.H. (2024). A 5-HT2A Inverse agonist reduces precipitated morphine withdrawal syndrome and its aversiveness. Presented at 86th College on Problems of Drug Dependence Annual Scientific Meeting. Montreal, QC, Canada.

James, J.M.*, Shahin, J.C.*, Chapman, H.L.*, Malin, D.H., Tsail, P.H.*, Suzaki, A.*, Burstein, E.S., Ward, C.P. (2022). A 5HT2A inverse agonist reverses nicotine withdrawal effects on sleep stages. *Society for Neuroscience Abstracts*, 232.04.

Malin, D.H., Tsai, P.H.*, Morales, E.R.*, Nguyen, J.R.*, Nino, S.A.*, Sadheora, K.S.*, Ward, C.P., Burstein, E.S., Moreno, G.L. (2022). A 5-HT2A inverse agonist attenuates morphine withdrawal syndrome in the rat. *Society for Neuroscience Abstracts*, 653.09.

Khamma, J.K.*, Petrosky, M.A.*, Ward, C.P., Moreno, G.L., and Kelling, A.S. (2020). Cortisol, DHEA, and heart rate variability in stressed and sleep deprived individuals. Accepted at Southwestern Psychological Association. Frisco, TX. [conference canceled]

Campbell, J.*, Tsai, P.*, Chapman, H.L.*, Bailey, V.E.*, Bratvedt, L.D.*, Ward, C.P., Burstein, E., Malin, D.H. (2019). A 5HT2A receptor inverse agonist reduces anxiety measures in a rodent model of PTSD. *Society for Neuroscience Abstracts,* 780.03.

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,* 422.04.

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-trail 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.*, Aguero, 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.*, Aguero, 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^{01} and cyc^{02} 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.

OTHER PRESENTATIONS

6/2024	Exploring the Impact of Mental Health on Physical Well-being. Professional Development Series, UHCL-Pearland, Pearland, TX
2/2023	The Science of Sleep. Friday Morning Continuing Education Series, UHCL, Houston, TX
6/2021	Invited Keynote Address. The struggle of sleep during the pandemic: interactions of stress, anxiety, and sleep. International Conference on Social Sciences and Humanities (ICSSH2021), Skopje, R. North Macedonia [virtual].

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 Neurones." New England Philharmonic, Boston, MA.
11/2010	Reading your mind: the science of *Inception*. UHCL 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: Biological Basis of Behavior; Research Design and Statistics I & II/Advanced Experimental Methods and Statistics; Psychoactive Drugs; Sleep and Dreaming; Neuroscience Research Methods; Experimental Methodology; Quantitative Analysis I

Undergraduate: Brain and Behavior; Behavioral Statistics/Statistical Methods in Psychology; Learning; Writing in Psychology; Capstone in Psychology; Sleep and Dreaming; Research in Behavioral Neuroscience; Introduction to Psychology; Learning Frameworks

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; Jacquelene Shahin*, '16; Erin Neyhart, '16; Meagan Sosa, '16; Ryan Hughes*, '17; Tasha Davis*, '17, Jack Throckmorton, '20; Holly Chapman*, '20; Baylee Vallot, '21; Dylan Rashell, '23;

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; Joseph Campbell, '19; Aoi Suzaki, '20; Paul Feiler, '22; Morgan Brokaw, '23

Member Dissertation Committee

Whitney Urane, '21; Amy Gorniak, '21; Behnaz Darban, '22; Edward Odom, '23

EDITORIAL ACTIVITIES

2022-present **Associate Editor**: Frontiers in Neuroscience (Sleep and Circadian Rhythms)

Journals – ad hoc review

Sleep; Behavioural Brain Research; Neuropyschopharmacology; 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 Neurobiologiae Experimentalis; Patient Preference and Adherence; Experimental Neurology, Journal of Neuroscience Methods; Journal of Herbal Medicine; Neuropsychiatric Disease and Treatment; Journal of Clinical Sleep Medicine; Hippocampus; Frontiers in Psychology

Textbooks – ad hoc review

Pearson Allyn & Bacon; Prentice Hall; Sage

Conference Abstract Reviewer

Association of Professional Sleep Societies; Southwestern Psychological Association

PROFESSIONAL SERVICE

Profession

2026 Aug Ad hoc Grant Reviewer, NASA
2024 Mar Ad hoc Grant Reviewer, NASA
2023 May Ad hoc Grant Reviewer, NASA
2022-2025 Member, Texas Transfer Advisory Committee, Psychology, THECB
2021 Jun Ad hoc Grant Reviewer, NASA
2020 Oct Ad hoc Grant Reviewer, NASA
2020 Member, Organizing Committee, Sleep Research Society Data Blitz 2020
2019 Member, Organizing Committee, Sleep Research Society Data Blitz 2019
2019 Feb Ad hoc Grant Reviewer, NASA
2018 Jul Ad hoc Grant Reviewer, NASA
2017-2021 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
2025-2027 Member, Faculty Council
2025-present Chair, Council of Chairs
2025-present Member, UHCL – Pearland Strategic Plan Work Group
2024-2025 Member, Space Allocation and Utilization Subcommittee
2024 Member, Emeritus Committee
2022-2024 Alternate Member, Institutional Animal Care and Use Committee (IACUC)
2020-2021 Chair, HSH Post-tenure Review Committee
2020-2021 Member, Faculty Development Leave Committee
2018-2021 Chair, Facilities and Support Services Committee
2018-2019 Representative of Program Directors for Dean's Administrative Team
2018-2019 Chair, HSH Committee on Educational Policy
2018-2022 Chair, Institutional Animal Care and Use Committee (IACUC)
2018-2021 Member, Faculty Senate
2017-2018 Vice Chair, Institutional Animal Care and Use Committee (IACUC)
2016-2020 Member, HSH Post-tenure Review Committee
2015-2017 Past-President, Faculty Senate (two terms)
2015-2017 Representative of Faculty for Dean's Administrative Team
2015-2017 Convener, School of Human Sciences and Humanities
2015-2016 Representative of Faculty, 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 Member, 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

2024 Chair, Search Committee for Psychology Faculty (three positions)
2022 Chair, Search Committee for Psychology Faculty (Lecturer)
2021-2022 Co-Chair, Search Committee for AVP of Facilities and Support Services
2021-2022 Member, Search Committee for Psychology Faculty (Cognitive/Neuroscience)
2021-2022 Chair, Search Committee for Department Administrative Assistant
2020-2021 Member, Search Committee for College Dean
2019 Co-Chair, Search Committee for AVP of Information Technology/CIO
2018-2019 Member, Search Committee for VP of Advancement
2018 Member, Search Committee for AVP 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

2023	President's Distinguished Service Award, UHCL
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

Society for Neuroscience
Sleep Research Society
Southwestern Psychological Association
Texas Branch American Association for Laboratory Animal Science
American Association of University Professors