

## 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<br>Minors: Chemistry &<br>Music History and Theory |

### PROFESSIONAL EXPERIENCE

|              |   |
|--------------|---|
| 2021-present | <b>Chair</b> , Department of Psychology, University of Houston–Clear Lake                           |
| 2019-present | <b>Professor</b> , Department of Psychology, University of Houston–Clear Lake                       |
| 2013-2021    | <b>Director</b> , Psychology Graduate Program, University of Houston–Clear Lake                     |
| 2012-2019    | <b>Associate Professor</b> , Department of Psychology, University of Houston–Clear Lake             |
| 2012-present | <b>Adjunct Faculty</b> , Department of Psychiatry & Behavioral Sciences, Baylor College of Medicine |
| 2010-2016    | <b>Director</b> , Animal Research Facility, 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>Lecturer</b> , Department of Psychiatry, Harvard Medical School                                  |
| 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                           |
| 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   |

### GRANTS and CONTRACTS

#### External Awards

|           |  |
|-----------|--|
| 2016-2018 | National Institute of Drug Abuse/NIH (N44DA-16-1208); <i>XDA - eXperimental Design Assistant, Phase II</i> (\$1,000,000; PI: W. Buras; Role: Sub-Contractor - \$350,000) |
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- 2014-2021 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* (\$210,000; PI: D.H. Malin; Role: Co-PI)
- 2014-2015 AALAS Grants for Laboratory Animal Science; *A Minimally Invasive Electroencephalographic Procedure for Rats* (\$3,200; PI: C.P. Ward)
- 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)
- 2010-2013 National Institute of Mental Health/NIH(1 R15 MH087934-01A1); *Sleep Loss and Hippocampal Function* (\$284,000; PI: C.P. Ward)
- 2006-2007 Takeda Pharmaceutical; *Effectiveness of Ramelteon in Treatment of Alzheimer's* (\$194,916; Co-PIs: C.P. Ward & R.E. Strecker)
- 2001 Mississippi Psychological Association, Student Research Grant; *Effect of Ginkgo Biloba on Spatial Memory* (\$500; PI: C.P. Ward)

### Internal Awards

Received intramural grants from Stonehill College, University of Florida, and University of Houston-Clear Lake (7 awards; \$42,000 total)

### PUBLICATIONS

\* Student authors

- McCoy, J.G. & Ward, C.P. (in press) Stress. In Tartar, J.L. (Eds.) *Brain Health*. National Academy of Sports Medicine.
- McCoy, J.G. & Ward, C.P. (in press) Emotions. In Tartar, J.L. (Eds.) *Brain Health*. National Academy of Sports Medicine.
- Bistricky, S.L., Walther, C., Balderas, J., Prudon, J., Ward, C.P. (2021). Distinct sleep deficits and depression yield distinct neurocognitive responses to social information. *Sleep and Biological Rhythms*, 19, 237-245.
- 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.

## **SELECTED PUBLISHED ABSTRACTS and PROFESSIONAL PRESENTATIONS**

Over 60 conference presentations at regional, national, and international conferences including the Society for Neuroscience, Associated Professional Sleep Societies, and Southwest Psychological Association. Over 50 students have served as co-presenters.

## **TEACHING EXPERIENCE**

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

*Graduate and Undergraduate:* Courses in Neuroscience, Neuroscience Techniques, Research Methodology, Statistics, and special topics in Sleep and Dreaming

### **Baylor College of Medicine**

*Post-Graduate:* Course in Research Methodology

### **University of Florida**

*Undergraduate:* Courses in Neuroscience and Physiology

### **Stonehill College**

*Undergraduate:* Courses in Neuroscience, Research Methodology, Statistics, Internship, and Introductory Psychology

### **University of Southern Mississippi**

*Graduate:* Course in Statistics

*Undergraduate:* Courses in Neuroscience, Learning Theory, Research Methodology, Statistics, and Introductory Psychology

## **Thesis Advisement**

Chaired or Co-Chaired over 20 thesis projects; member of over 10 thesis committees; member of 3 dissertation committees

## **PROFESSIONAL SERVICE**

### **Professional**

2019-2020 Member, Organizing Committee, Sleep Research Society Data Blitz 2019 & 2020  
 2018-2020 Grant Reviewer, NASA (Jun '18, Feb '19, & Oct '20)  
 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)

### **University of Houston–Clear Lake** (*major committees/leadership only*)

2020-2021 Chair, HSH Post-tenure Review 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-present Chair, Institutional Animal Care and Use Committee (IACUC)

2018-2021 Member, Faculty Senate

2015-2017 Representative of Faculty for Dean’s Administrative Team

2015-2017 Convener, School of Human Sciences and Humanities

2013-2017 President, Faculty Senate (President Elect, President, Past-President-two terms)

2013-2018 Member, Committee for Education Policy

2012-2013 Chair, Faculty Senate Budget Committee

2010-2013 Faculty Representative, University Planning and Budgeting Committee

2010-2013 Member, Faculty Senate

2008-2017 Member, Institutional Animal Care and Use Committee (IACUC)

### **Search Committees**

Served as Co-Chairs for AVP of IT/CIO and AVP of Facilities; member of searches for college Dean, VP of Advancement, and AVP of Marketing/Communications; Chair of two faculty searches, member of over 10 faculty searches

### **AWARDS and HONORS**

2016 University Faculty Fellowship, UHCL

2007 Honorable Mention Abstract Award, Sleep Research Society

2004 Trainee Merit Based Travel Award, Association of Professional Sleep Societies

2002 Department of Psychology Outstanding Graduate Research Award, USM

1998 Trainee Travel Award, Association of Professional Sleep Societies

1998 Honors Graduate, USM

### **PROFESSIONAL SOCIETY MEMBERSHIP**

2013-present Southwestern Psychological Association

2002-present Society for Neuroscience

1998-present Sleep Research Society