

**CURRICULUM VITAE**

**Elizabeth A. Fucich, Ph.D.**

**Current Title:** Postdoctoral Fellow

**Business Address:** Louisiana State University Health Sciences Center  
Department of Physiology  
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**Education:**

2008 – 2012 Bachelor of Science in Biochemistry, *magna cum laude*  
Minors in Biological Sciences and Spanish  
Department of Chemistry & Biochemistry  
University of Southern Mississippi  
Hattiesburg, MS

2012 – 2017 Doctor of Philosophy in Neuroscience  
Department of Pharmacology  
University of Texas Health Science Center  
San Antonio, TX

2017 – Postdoctoral Fellowship  
Department of Physiology  
Louisiana State University Health Sciences Center  
New Orleans, LA

2018 Diversity Workshop for Graduate Faculty  
Postbaccalaureate Research Education Program in Biomedical  
Sciences  
Louisiana State University Health Sciences Center  
New Orleans, LA

2019 Instructional and Assessment Strategies for Physiology Teaching  
Excellence Workshop Series  
Department of Physiology  
Louisiana State University Health Sciences Center  
New Orleans, LA

**Academic, Professional, and Research Appointments:**

- 2010 – 2012 Undergraduate Researcher  
Laboratory of David J. Echevarria  
Department of Psychology  
University of Southern Mississippi
- 2013 – 2017 Graduate Research Assistant  
Laboratory of David A. Morilak  
Department of Pharmacology  
University of Texas Health Science Center
- 2017 – Postdoctoral Fellow  
Laboratory of Patricia E. Molina  
Department of Physiology  
Louisiana State University Health Sciences Center

**Membership in Professional Organizations:**

- 2011 Member, Mississippi Academy of Sciences  
2011 – Member, Society for Neuroscience  
2015 – 2018 Member, American Association for the Advancement of Science  
2017 – Member, American Physiological Society  
2017 – Member, Research Society on Alcoholism  
2018 – Member, Association for Women in Science—Southern Louisiana Chapter

**Awards and Honors:**

- 2008 – 2012 National Merit Presidential Scholarship, USM  
2008 – 2012 President's List & Dean's List, USM  
2008 – 2012 Mississippi Eminent Scholars Grant, USM  
2008 – 2012 Mississippi Tuition Assistance Grant, USM  
2010 JoAnne J. Trow Scholarship, Alpha Lambda Delta National Honor Society – *1 of 35 recipients chosen nationally, chosen for highest scholarship value offered*  
2010 James G. Stemler Study Abroad Scholarship, Alpha Lambda Delta National Honor Society – *1 of 10 recipients chosen nationally*  
2010 Honors College Study Abroad Award, USM  
2011 Honors College Research Scholarship, USM  
2012 Best Paper Employing Statistical Analysis, First Place, Undergraduate Research Conference, USM  
2012 Who's Who in American Colleges & Universities, USM  
2012 Dean's Award, Integrated Multi-disciplinary Graduate Program, UTHSCSA – *given to top applicants*  
2015 Trainee Professional Development Award, Society for Neuroscience  
2015 Data Blitz Presenter, American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL – *1 of 12 abstracts selected*  
2015 Voice Poster Presenter, American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL – *1 of 20 basic science abstracts selected*  
2015 – 2018 Program for Excellence in Science Participant, AAAS/Science  
2016 Best Abstract and New Horizons Podium Presenter, Fort Sam Houston Graduate School Faculty Development and Research Symposium, San Antonio, TX – *1 of 2 abstracts selected from PhD candidates and junior faculty*  
2016 Student Poster Award, Frontiers of Translational Science Research Day, UTHSCSA

- 2016 Student Poster Award, Second Place, Center for Biomedical Neuroscience Retreat, UTHSCSA
- 2016 William Thomas Booth Memorial Travel Award, UTHSCSA
- 2016 Outstanding Student Poster Award, Dept. of Pharmacology Graduate Student Symposium, UTHSCSA
- 2016 Matthew P. Rowan Memorial Graduate Student of the Year Award, UTHSCSA
- 2018 Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award, American Physiological Society
- 2018 Joseph Erlanger Trainee Award, Experimental Biology Annual Meeting, San Diego, CA – *1 of 4 abstracts selected by the APS Central Nervous System Section*
- 2018 Junior Investigator Award, Research Society on Alcoholism
- 2018 Postdoctoral Preparation Institute Travel Awardee, Federation of American Societies for Experimental Biology
- 2019 Junior Investigator Award, Research Society on Alcoholism
- 2019 Trainee Professional Development Award, Society for Neuroscience

## **TEACHING EXPERIENCE AND RESPONSIBILITIES**

### **Formal Course Responsibilities:**

- Summer 2015 Lecturer, Biological Bases of Brain Function—Fundamentals of Neuroanatomy, Neuroanatomical Techniques (2h)  
Course Director: William Clarke; Class Size: 7 undergraduates  
ASPET Summer Undergraduate Research Program, UTHSCSA
- Summer 2016 Lecturer, Biological Bases of Brain Function—Introduction: Neuroanatomy (1h)  
Course Director: William Clarke; Class Size: 9 undergraduates  
ASPET Summer Undergraduate Research Program, UTHSCSA
- Fall 2017 Instructor, Physiology of Neuronal Circuits Underlying Brain Disorders (PHYSIO 289)—Traumatic Brain Injury, Post-Traumatic Stress Disorder (3h)  
Course Director: Scott Edwards; Class Size: ~10 graduate students  
School of Graduate Studies, LSUHSC-NO
- Fall 2017 Instructor, Pathophysiology (HLSC 3410)—Disorders of Brain Function I & II (2h)  
Course Directors: Stefany Primeaux, Flavia Souza-Smith; Class Size: 132 undergraduates  
School of Nursing, LSUHSC-NO
- Fall 2017 Lecturer, Perspectives in Alcohol Research (PHYSIO 289)—Societal Aspects of Responsible Conduct of Research (1h)  
Course Director: Robert Siggins; Class Size: 20-30 graduate students and postdoctoral fellows  
School of Graduate Studies, LSUHSC-NO
- Spring 2018 Instructor, General and Oral Physiology (DHY 3202)—Autonomic Nervous System (1h)  
Course Director: Xingping Yue; Class Size: 20-30 undergraduates  
School of Dentistry, LSUHSC-NO

- Spring 2018 Instructor, Pathophysiology (CARE XVII HLSC 3410)—Disorders of Brain Function I & II (2h)  
Course Directors: Stefany Primeaux, Flavia Souza-Smith; Class Size: 51 undergraduates  
School of Nursing, LSUHSC-NO
- Spring 2018 Instructor, Pathophysiology (HLSC 3410)—Disorders of Brain Function I & II (2h)  
Course Directors: Stefany Primeaux, Flavia Souza-Smith; Class Size: 104 undergraduates  
School of Nursing, LSUHSC-NO
- Spring 2018 Lecturer, Perspectives in Alcohol Research (PHYSIO 289)—Cannabinoid Type 2 Receptors in Dopamine Neurons Inhibits Psychomotor Behaviors, Alters Anxiety, Depression and Alcohol Preference (1h)  
Course Director: Robert Siggins; Class Size: 20-30 graduate students and postdoctoral fellows  
School of Graduate Studies, LSUHSC-NO
- Fall 2018 Instructor, Pathophysiology (HLSC 3410)—Disorders of Brain Function I & II, Stress (3h)  
Course Directors: Stefany Primeaux, Flavia Souza-Smith; Class Size: 115 undergraduates  
School of Nursing, LSUHSC-NO
- Fall 2018 Instructor, Physiology Journal Club (PHYSIO 290) (1h)  
Course Director: Liz Simon; Class Size: ~10 graduate students  
School of Graduate Studies, LSUHSC-NO
- Fall 2018 Lecturer, Perspectives in Alcohol Research (PHYSIO 289)—Animal Models in Alcohol Studies (1h)  
Course Director: Robert Siggins; Class Size: 20-30 graduate students and postdoctoral fellows  
School of Graduate Studies, LSUHSC-NO
- Spring 2019 Instructor, Pathophysiology (CARE XVII HLSC 3410)—Disorders of Brain Function I & II, Stress (3h)  
Course Directors: Stefany Primeaux, Flavia Souza-Smith; Class Size: 57 undergraduates  
School of Nursing, LSUHSC-NO
- Spring 2019 Instructor, Pathophysiology (HLSC 3410)—Disorders of Brain Function I & II, Stress (3h)  
Course Directors: Stefany Primeaux, Flavia Souza-Smith; Class Size: 109 undergraduates  
School of Nursing, LSUHSC-NO
- Spring 2019 Lecturer, Perspectives in Alcohol Research (PHYSIO 289)—Mu Opioid Receptors in GABAergic Neurons of the Forebrain Promote Alcohol Reward and Drinking (1h)  
Course Directors: Robert Siggins, Elizabeth Avegno; Class Size: 20-30 graduate students and postdoctoral fellows  
School of Graduate Studies, LSUHSC-NO

Fall 2019 Lecturer, Perspectives in Alcohol Research (PHYSIO 289)—Amygdalar Mechanisms Underlying TBI-Related Behavioral Comorbidities (1h)  
Course Directors: Robert Siggins, Elizabeth Avegno; Class Size: 20-30 graduate students and postdoctoral fellows  
School of Graduate Studies, LSUHSC-NO

Fall 2019 Instructor, Pathophysiology (HLSC 3410)—Disorders of Brain Function I (1h)  
Course Directors: Stefany Primeaux, Flavia Souza-Smith; Class Size: ~120 undergraduates  
School of Nursing, LSUHSC-NO

**Undergraduate, Medical, or Graduate Students Trained:**

2014 Allison Dugan Garrison, PhD (Rotating Graduate Student)  
*Current Clinical Regulatory Affairs Specialist at OsteoMed*

2014 Kathleen Winters McDonough (ASPET Summer Undergraduate Research Program Student)  
*Current PhD Candidate in Neuroscience at UT Medical Branch*

2015 Angelica Salinas (Rotating Graduate Student)  
*Current PhD Candidate in Neuroscience at UTHSCSA*

2018 – 2019 Peter F. Winsauer (Summer Undergraduate Student)  
*Current undergraduate (Biomedical Engineering) at Texas A&M University*

2018 – 2019 Mariza Francis (Undergraduate Student Worker)  
*Current undergraduate (Neuroscience) at Tulane University*

2019 Thomas Kylo (Rotating Graduate Student)  
*Current graduate student (Neuroscience) at LSUHSC-NO*

**High School Students Trained:**

2014 – 2016 Madeleine Saunders (Voelcker Biomedical Research Academy Student)  
*Current undergraduate (Forensic Chemistry, Pre-Medicine) at University of Mississippi*

2017 Mariza Francis (Summer Research Program Student)  
*Current undergraduate (Neuroscience) at Tulane University*

**Additional Experience:**

2011 – 2012 Peer Educator and Mentor, Department of Residency Life, USM  
*As an upperclassman, I worked with underclassmen one-on-one and in small groups (12h/week) to provide academic assistance in core coursework as well as upper level biology and chemistry coursework. I additionally provided students support in transitioning to college life and career planning, connected them to campus resources for academic assistance and professional development, and provided near-peer advisement for navigating coursework at USM.*

**RESEARCH AND SCHOLARSHIP**

**Completed Grants and Contracts:**

09/01/2013 – 08/31/2014

Integrated Graduate Training Program in Neuroscience

NIH/Jointly Sponsored Neuroscience Institutes T32NS082145

Goal: To provide broadly-based neuroscientific training and stipend support for 2 early-stage (second year) graduate students in the Integrated Graduate Training Program in Neuroscience at UTHSCSA.

Role: Trainee

07/01/2015 – 06/30/2016

Institute for Integration of Medicine & Science: A Partnership to Improve Health (TL1 component of the Clinical and Translational Science Award)

NIH/NCATS TL1TR001119

Goal: To support the research training of promising graduate students working in areas of translational science.

Role: Trainee

04/17/2017 – 09/16/2018

Biomedical Alcohol Research Training Program

NIH/NIAAA T32AA007577

Goal: To educate and train pre- and postdoctoral fellows pursuing MD and/or PhD degree(s) for careers as independent scientists in the field of alcohol research.

Role: Trainee

**Current Grants and Contracts:**

09/17/2018 – 04/16/2020

Stress Effects on Traumatic Brain Injury: Neural Mechanisms of Escalated Alcohol Drinking

NIH/NIAAA F32AA026779-01A1

Goal: To investigate the role of stress exposure prior to traumatic brain injury (TBI) in exacerbating cellular pathophysiology and increases in anxiety and alcohol self-administration behavior.

Role: PI

**Journal Publications (Refereed):**

Thompson PM, Cruz DA, **Fucich EA**, Olukotun DY, Takahashi M, Itakura M. SNAP-25a/b isoform levels in human brain dorsolateral prefrontal cortex and anterior cingulate cortex. *Molecular Neuropsychiatry*. 2015 Dec 1;1(4):220-34.

**Fucich EA**, Paredes D, Morilak DA. Therapeutic effects of extinction learning as a model of exposure therapy in rats. *Neuropsychopharmacology*. 2016 Dec 1;41(13):3092-102.

**Fucich EA**, Paredes D, Saunders MO, Morilak DA. Activity in the ventral medial prefrontal cortex is necessary for the therapeutic effects of extinction in rats. *The Journal of Neuroscience*, 2018 Feb 7;38(6):1408-17.

Girotti M, Adler SM, Bulin SE, **Fucich EA**, Paredes D, Morilak DA. Prefrontal cortex executive processes affected by stress in health and disease. *Progress in NeuroPsychopharmacology & Biological Psychiatry*, 2018 Jul 13;85:161-79.

**Fucich EA**, Morilak DA. Shock-probe defensive burying test to measure active versus passive coping style in response to an aversive stimulus in rats. *Bio-protocol*, 2018 Sep 5;8(17):e2998.

**Fucich EA\***, Mayeux JP\*, McGinn MA, Gilpin NW, Edwards S, Molina PE. A novel role for the endocannabinoid system in ameliorating motivation for alcohol drinking and negative behavioral affect following traumatic brain injury in rats. *Journal of Neurotrauma*, 2019 Jan 14.

**Fucich EA**, Stielper ZF, Cancienne H, Edwards S, Gilpin NW, Molina PE, Middleton JW. Endocannabinoid degradation inhibitors ameliorate neuronal and synaptic alterations following traumatic brain injury. *Journal of Neurophysiology*. In revision.

**Fucich EA**, Stielper ZF, Mozingo SF, Francis M, Winsauer PF, Middleton JW, Edwards S, Gilpin NW, Molina PE. Predator odor exposure exacerbates traumatic brain injury outcomes in rats. In preparation.

**Abstracts:**

- 2012 **Fucich EA**. Effect of acute alcohol exposure on cortisol levels in zebrafish (*Danio rerio*). University of Southern Mississippi Undergraduate Research Conference, Hattiesburg, MS, **Winner of Best Paper Employing Statistical Analysis, First Place**.
- 2012 Jouandot II DJ, Lamb EA, **Fucich EA**, Echevarria DJ. Effect of acute alcohol exposure on cortisol levels in zebrafish (*Danio rerio*). Society for Neuroscience Annual Meeting, New Orleans, LA, Online program, abstract number 191.08.
- 2013 Girotti M, Donegan JJ, **Fucich EA**, Morilak DA. Ketamine restores active coping behavior after stress in the rat defensive burying test—evidence for a role of STAT3. Center for Biomedical Neuroscience Retreat Spring 2013, San Antonio, TX.
- 2013 Girotti M, Donegan JJ, **Fucich EA**, Morilak DA. Ketamine restores active coping behavior after stress in the rat defensive burying test—evidence for a role of STAT3. Society for Neuroscience Annual Meeting, San Diego, CA, Online program, abstract number 280.06.
- 2013 **Fucich EA**, Donegan JJ, Morilak DA. Modeling cognitive therapy in the rat: use of fear extinction training to reverse chronic stress-induced deficits on the attentional set-shifting test. Pharmacology Department Graduate Student Symposium, San Antonio, TX, October 25, 2013
- 2014 **Fucich EA**, Donegan JJ, Morilak DA. Modeling cognitive therapy in the rat: use of fear extinction training to reverse chronic stress-induced deficits on the attentional set-shifting test. UT Austin Institute for Neuroscience Symposium, Austin, TX.
- 2014 **Fucich EA**, Donegan JJ, Morilak DA. Modeling cognitive therapy in the rat: use of fear extinction training to reverse chronic stress-induced cognitive inflexibility and coping style choice. Center for Biomedical Neuroscience Retreat Spring 2014, San Antonio, TX.
- 2014 **Fucich EA**, Donegan JJ, Morilak DA. Modeling cognitive therapy in the rat: use of fear extinction training to reverse chronic stress-induced cognitive inflexibility and coping style choice. Mikiten Graduate Research Forum, San Antonio, TX.
- 2014 **Fucich EA**, Donegan JJ, Morilak DA. Modeling cognitive therapy in the rat: use of fear extinction training to reverse chronic stress-induced cognitive inflexibility and coping style choice. Pharmacology Department Graduate Student Symposium, San Antonio, TX.

- 2014 **Fucich EA**, Donegan JJ, Morilak DA. Modeling cognitive therapy in the rat: use of fear extinction training to reverse chronic stress-induced cognitive inflexibility and coping style choice. Society for Neuroscience Annual Meeting, Washington, DC, Online program, abstract number 468.07.
- 2015 **Fucich EA**, Morilak DA. Modeling cognitive therapy in the rat: plasticity associated with fear extinction may underlie reversal of chronic stress-induced behavioral deficits. Center for Biomedical Neuroscience Retreat Spring 2015, San Antonio, TX.
- 2015 Thompson PM, Cruz DA, **Fucich EA**, Cuellar T. State and trait markers, not clinical diagnoses, are associated with brain SNAP-25 isoform pattern of expression, a translational approach. Society of Biological Psychiatry Annual Meeting, Toronto, Ontario.
- 2015 **Fucich EA**, Morilak DA. Modeling cognitive therapy in the rat: plasticity associated with fear extinction may underlie reversal of chronic stress-induced behavioral deficits. American Society for Biochemistry and Molecular Biology Science Communication and Outreach Symposium, San Antonio, TX.
- 2015 **Fucich EA**, Morilak DA. Modeling cognitive therapy in the rat: plasticity associated with fear extinction may underlie reversal of chronic stress-induced behavioral deficits. Pharmacology Department Graduate Student Symposium, San Antonio, TX.
- 2015 Paredes D, **Fucich EA**, Morilak DA. Effects of  $\alpha$ -1 receptor antagonist administration in the mPFC on the therapeutic effects of fear extinction on cognitive flexibility. Pharmacology Graduate Student Symposium, San Antonio, TX.
- 2015 **Fucich EA**, Morilak DA. Modeling cognitive therapy in the rat: plasticity associated with fear extinction may underlie reversal of chronic stress-induced behavioral deficits. Society for Neuroscience Annual Meeting, Chicago, IL, **Trainee Professional Development Award Poster Presentation**, Online program, abstract number 523.16.
- 2015 **Fucich EA**, Saunders MO, Morilak DA. Modeling cognitive therapy in rats: fear extinction reverses the chronic stress-induced shift from active to passive coping behavior. American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL, **Voice Poster Presentation—1 of 20 basic science abstracts selected.**
- 2016 **Fucich EA**, Paredes D, Saunders MO, Morilak DA. Modeling exposure therapy in the rat: fear extinction-induced infralimbic activity may underlie reversal of chronic stress-induced behavioral deficits. Frontiers of Translational Science Research Day, San Antonio, TX, **Student Poster Award.**
- 2016 Paredes D, **Fucich EA**, Morilak DA. Effects of  $\alpha$ -1 receptor antagonist administration in the mPFC on the therapeutic effects of fear extinction on cognitive flexibility. Center for Biomedical Neuroscience Retreat Spring 2016, San Antonio, TX.
- 2016 **Fucich EA**, Paredes D, Saunders MO, Morilak DA. Modeling exposure therapy in the rat: fear extinction-induced infralimbic activity may underlie reversal of chronic stress-induced behavioral deficits. Center for Biomedical Neuroscience Retreat Spring 2016, San Antonio, TX, **Student Poster Award, Second Place.**



- 2016 **Fucich EA**, Saunders MO, Morilak DA. Modeling cognitive therapy in rats: fear extinction reverses the chronic stress-induced shift from active to passive coping behavior. San Antonio Military Health System and Universities Research Forum, San Antonio, TX.
- 2016 **Fucich EA**, Paredes D, Saunders MO, Morilak DA. Modeling exposure therapy in the rat: fear extinction-induced infralimbic activity may underlie reversal of chronic stress-induced behavioral deficits. Mikiten Graduate Research Forum, San Antonio, TX.
- 2016 **Fucich EA**, Paredes D, Saunders MO, Morilak DA. Modeling exposure therapy in the rat: fear extinction-induced infralimbic activity may underlie reversal of chronic stress-induced behavioral deficits. Pharmacology Graduate Student Symposium, San Antonio, TX, **Outstanding Student Poster Award**.
- 2016 **Fucich EA**, Saunders MO, Morilak DA. Modeling exposure therapy in rats: fear extinction-induced infralimbic activity underlies reversal of chronic stress-induced shift towards passive coping. San Antonio Life Sciences Institute Neuroscience Symposium, San Antonio, TX.
- 2016 Morilak DA, **Fucich EA**, Saunders MO. Modeling exposure therapy in rats: fear extinction-induced infralimbic activity underlies reversal of chronic stress-induced shift towards passive coping. Society for Neuroscience Annual Meeting, San Diego, CA, Online program, abstract number 460.09.
- 2016 **Fucich EA**, Paredes D, Morilak DA. Modeling exposure therapy in rats: fear extinction-induced infralimbic protein synthesis underlies reversal of chronic stress-induced cognitive inflexibility. Society for Neuroscience Annual Meeting, San Diego, CA, Online program, abstract number 460.08.
- 2017 Francis M, **Fucich EA**, Stielper ZF, Stoulig PJ, Monteagudo-Romero L, Gilpin NW, Edwards S, Molina PE. Effect of traumatic brain injury and alcohol on neuroinflammation and oxidative stress in the hippocampus. Summer Research Poster Day, New Orleans, LA, **High School Student Poster Award, Second Place**.
- 2017 **Fucich EA**, Stielper ZF, Stoulig PJ, Monteagudo-Romero L, Francis M, Middleton JW, Gilpin NW, Molina PE. Dimorphic effects of traumatic brain injury on anxiety-like behavior are exacerbated by pre-exposure to traumatic stress. Greater New Orleans Society for Neuroscience Annual Retreat, New Orleans, LA.
- 2017 Stielper ZF, **Fucich EA**, Stoulig PJ, Edwards S, Molina PE, Gilpin NW. Mild traumatic brain injury escalates alcohol consumption in alcohol-drinking female rats. Graduate Research Day, New Orleans, LA.
- 2017 **Fucich EA**, Stielper ZF, Stoulig PJ, Monteagudo-Romero L, Francis M, Middleton JW, Gilpin NW, Molina PE. Dimorphic effects of traumatic brain injury on anxiety-like behavior are exacerbated by pre-exposure to traumatic stress. Graduate Research Day, New Orleans, LA.
- 2017 Paredes D, **Fucich EA**, Morilak DA. Fear extinction as a model of exposure therapy in rats: developing a sub-maximally effective fear extinction procedure to test adjunct pharmacotherapies. Society for Neuroscience Annual Meeting, Washington, DC, Online program, abstract number 330.11.

- 2018 **Fucich EA**, Mayeux JP, McGinn MA, Stoulig PJ, Monteagudo-Romero L, Edwards S, Middleton JW, Molina PE. Inhibition of endocannabinoid degradation improves behavioral effects of traumatic brain injury that are associated with amygdalar hyperexcitability in rats. Experimental Biology, San Diego, CA, *The FASEB Journal* 2018 Apr 20;32(1\_supplement):877.5.
- 2018 **Fucich EA**, Stielper ZF, Stoulig PJ, Edwards S, Middleton JW, Gilpin NW, Molina PE. Neurobiological underpinnings of escalated alcohol drinking after traumatic brain injury. Research Society on Alcoholism Annual Meeting, San Diego, CA, *Alcoholism: Clinical & Experimental Research* 2018 May 31;42(S1):32A, abstract number 055.
- 2018 Stielper ZF, **Fucich EA**, Edwards S, Molina PE, Gilpin NW. Mild traumatic brain injury (TBI) alters amygdalar endocannabinoid proteins in alcohol drinking rats. Research Society on Alcoholism Annual Meeting, San Diego, CA, *Alcoholism: Clinical & Experimental Research* 2018 May 31;42(S1):32A, abstract number 056.
- 2018 Stoulig PJ, Stielper ZF, **Fucich EA**, Monteagudo-Romero L, Edwards S, Gilpin NW, Molina PE. Alcohol self-administration post traumatic brain injury induces astrocyte activation in the basolateral amygdala and central extended amygdala. Research Society on Alcoholism Annual Meeting, San Diego, CA, *Alcoholism: Clinical & Experimental Research* 2018 May 31;42(S1):105A, abstract number 345.
- 2018 **Fucich EA**, Stielper ZF, Stoulig PJ, Edwards S, Middleton JW, Gilpin NW, Molina PE. Neurobiological underpinnings of escalated alcohol drinking after traumatic brain injury. Research Society on Alcoholism Annual Meeting, San Diego, CA, *Alcoholism: Clinical & Experimental Research* 2018 May 31;42(S1):278A, abstract number 31.
- 2018 Winsauer PF, **Fucich EA**, Stielper ZF, Avegno EM, Gilpin NW, Molina PE. The effects of traumatic brain injury and psychological stress on amygdalar activity and anxiety-like behavior in rats. Summer Research Poster Day, New Orleans, LA.
- 2018 Stielper ZF, **Fucich EA**, Edwards S, Molina PE, Gilpin NW. Mild traumatic brain injury (TBI) alters amygdalar endocannabinoid proteins in alcohol drinking rats. Graduate Research Day, New Orleans, LA.
- 2018 Paredes D, **Fucich EA**, Morilak DA. Plasticity in the ventromedial prefrontal cortex underlies the therapeutic effects of fear extinction. Society for Neuroscience Annual Meeting, San Diego, CA, Online program, abstract number 507.07.
- 2018 Stielper ZF, **Fucich EA**, Edwards S, Molina PE, Gilpin NW. Mild traumatic brain injury (TBI) alters amygdalar endocannabinoid proteins in alcohol drinking rats. Greater New Orleans Society for Neuroscience Annual Retreat, New Orleans, LA.
- 2018 **Fucich EA**, Stielper ZF, Edwards S, Gilpin NW, Molina PE. Effect of stress on traumatic brain injury-related anxiety-like behavior and alcohol drinking in rats. Greater New Orleans Society for Neuroscience Annual Retreat, New Orleans, LA.
- 2019 Stielper ZF, **Fucich EA**, Edwards S, Molina PE, Gilpin NW. Mild traumatic brain injury (TBI) alters endocannabinoids in the amygdala of female alcohol drinking rats. *The FASEB Journal*. 2019 Apr 1;33(1\_supplement):848.3.

- 2019 Stielper ZF, **Fucich EA**, Middleton JW, Molina PE, Gilpin NW. Endocannabinoid degradation inhibition effects on cortical neuron activity following traumatic brain injury (TBI). Research Society on Alcoholism Annual Meeting, Minneapolis, MN, *Alcoholism: Clinical & Experimental Research* 2019 May 23;42(S1):103A, abstract number 308.
- 2019 **Fucich EA**, Stielper ZF, Edwards S, Gilpin NW, Molina PE. Effect of stress on traumatic brain injury-related anxiety-like behavior and alcohol drinking in rats. Research Society on Alcoholism Annual Meeting, Minneapolis, MN, *Alcoholism: Clinical & Experimental Research* 2019 May 23;42(S1):308A, abstract number 198.
- 2019 Middleton JW, **Fucich EA**, Stielper ZF, Cancienne H, Edwards S, Gilpin NW, Molina PE. Quantitative comparison and classification of neuronal properties after traumatic brain injury and rescue by cannabinoid degradation enzyme inhibitors. International Cannabinoid Research Society Annual Symposium, Bethesda, MD, Online program, abstract number P3-35.
- 2019 Stielper ZF, **Fucich EA**, Edwards S, Molina PE, Gilpin NW. Traumatic brain injury (TBI) alters endocannabinoids in the basolateral amygdala of female rats. International Cannabinoid Research Society Annual Symposium, Bethesda, MD, Online program, abstract number P3-47.
- 2019 **Fucich EA**, Stielper ZF, Mazingo SF, Edwards S, Gilpin NW, Molina PE. Predator odor exposure exacerbates traumatic brain injury outcomes in rats. Society for Neuroscience Annual Meeting, Chicago, IL, **Trainee Professional Development Award Poster Presentation**, Online program, abstract number 300.09.

#### **Invited Oral Presentations:**

- 2011 Effect of acute alcohol exposure on cortisol levels in zebrafish (*Danio rerio*). USM Department of Chemistry & Biochemistry Undergraduate Research Symposium Oral Presentation, Hattiesburg, MS.
- 2012 Effect of acute alcohol exposure on cortisol levels in zebrafish (*Danio rerio*). University of Southern Mississippi Undergraduate Research Conference Oral Presentation, Hattiesburg, MS.
- 2015 Modeling cognitive therapy in the rat: plasticity associated with fear extinction may underlie reversal of chronic stress-induced behavioral deficits. UTHSCSA Department of Pharmacology Seminar, San Antonio, TX.
- 2015 Modeling cognitive therapy in rats: fear extinction reverses the chronic stress-induced shift from active to passive coping behavior. **Data Blitz Oral Presentation—1 of 12 abstracts selected**. American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL.
- 2016 Modeling cognitive therapy in rats: fear extinction reverses the chronic stress-induced shift from active to passive coping behavior. **Best Abstract and New Horizons Podium Presentation— 1 of 2 abstracts selected from PhD candidates and junior faculty**. Fort Sam Houston Graduate School Faculty Development and Research Symposium, San Antonio, TX.

- 2016 Using rats to determine prefrontal mechanisms of behavioral therapy for stress-related psychiatric illness. LSUHSC-NO Department of Physiology Seminar, New Orleans, LA.
- 2018 Inhibition of endocannabinoid degradation improves behavioral effects of traumatic brain injury that are associated with amygdalar hyperexcitability in rats. **Joseph Erlanger Distinguished Lectureship Mini-Symposium Oral Presentation—1 of 4 abstracts selected.** Experimental Biology, San Diego, CA.
- 2018 Neurobiological underpinnings of escalated alcohol drinking after traumatic brain injury. Comorbidities Promoting Excessive Alcohol Use Symposium (**Organizer/Chair**). Research Society on Alcoholism Annual Meeting, San Diego, CA.
- 2018 Effects of psychological stress on traumatic brain injury outcomes in rats. LSUHSC-NO Department of Cell Biology & Anatomy Seminar, New Orleans, LA.
- 2018 Traumatic brain injury & psychological stress: impact on neurobehavioral outcomes. LSUHSC-NO Department of Physiology Seminar, New Orleans, LA.
- 2019 Effect of stress on traumatic brain injury-related anxiety-like behavior and alcohol drinking in rats. Alcohol Use Disorder and Traumatic Brain Injury: a Bench to Bedside Approach to Understanding and Treating Co-Morbidity Symposium. Research Society on Alcoholism Annual Meeting, Minneapolis, MN.

#### **Editorial Posts and Activities:**

- 2011 – 2012 Sciences Editor, Catalyst Undergraduate Research Journal, USM  
 2016 Reviewer, Current Opinion in Behavioral Sciences

#### **SERVICE ACTIVITIES**

##### **University/Institutional Service:**

- 2008 – 2009 Community Service Chair, Scholar 2 Scholar Presidential Scholarship Group, USM  
 2009 – 2010 President, Alpha Lambda Delta National Honor Society, USM Chapter  
 2010 Group Leader and Student Presenter, Honors College Senior Honors Orientation, USM  
 2011 – 2012 Student Vice President, Phi Kappa Phi National Honor Society, USM Chapter  
 2011 – 2012 Secretary & Community Outreach Chair, American Chemical Society Student Affiliates, USM Chapter—*submitted mini grant for STEM outreach project*  
 2013 – 2014 Ambassador and Committee Chairperson, Graduate Student Association, UTHSCSA—*coordinated largest graduate research forum to date*  
 2014 – 2015 Coordinator, Pharmacology & Neuroscience Trainee Whiteboard Sessions, UTHSCSA  
 2014 – 2015 President, Graduate Student Association, UTHSCSA—*coordinated UTHSCSA's first Biomedical Career Day*  
 2014 – 2015 Graduate School of Biomedical Sciences Student Representative, Parking and Traffic Safety Committee, UTHSCSA  
 2014 – 2015 Student Representative, Graduate Faculty Council, UTHSCSA  
 2015 Member, Pharmacology Graduate Student Symposium Committee, UTHSCSA  
 2015 – 2017 Graduate School of Biomedical Sciences Student Representative, Student Health Center Governing Board, UTHSCSA  
 2016 Interviewer, Voelcker Biomedical Research Academy Admissions Committee, UTHSCSA

2016 Chair, Pharmacology Graduate Student Symposium Committee, UTHSCSA  
 2017 Judge, Graduate Research Day, LSUHSC-NO  
 2017 Moderator, Alcohol & Drug Abuse Center of Excellence Retreat, LSUHSC-NO  
 2018 Judge, Graduate Research Day, LSUHSC-NO  
 2018 – Member, Physiology Mentoring/Training Task Force, LSUHSC-NO  
 2018 – Chair, Physiology Wellbeing Committee, LSUHSC-NO  
 2018 – Co-Chair, Professional & Educational Development and Outreach Committee, Association for Women in Science Southern Louisiana Chapter  
 2018 – Member, Social Committee, Association for Women in Science Southern Louisiana Chapter  
 2018 – President, Postdoctoral Association, LSUHSC-NO  
 2019 – Member, Selection Committee, Alcohol and Drug Abuse Center of Excellence Postdoctoral Fellow Seminar Series

**Community Service Activities:**

2008 Mentor, Big Brothers Big Sisters Mississippi, Hattiesburg, MS  
 2012 Volunteer, Society for Neuroscience Education and Outreach, San Antonio, TX  
 2014 Demonstration Leader, Science Expo, UTHSCSA  
 2017 Instructor, Art is Neuroscience Series, Supporting Multiple Art Resources Together, San Antonio, TX  
 2017 Field Tester, Controls in Animal Studies Professional Skills Training Course, American Physiological Society, Bethesda, MD  
 2017 Field Tester, Conflicts of Interest Professional Integrity & Publishing Ethics Skills Training Course, American Physiological Society  
 2017 Field Tester, Overlapping Publications Professional Integrity & Publishing Ethics Skills Training Course, American Physiological Society  
 2017 Representative, Alcohol & Drug Abuse Center of Excellence, Recovery Informational Fair, Xavier University  
 2018 Workshop Leader, Girls in STEM at Tulane, Tulane University  
 2018 Workshop Leader, Boys at Tulane in STEM, Tulane University  
 2018 Judge, Barbara A. Horwitz and John M. Horowitz Undergraduate Research Awards, American Physiological Society  
 2019 Mentor, Sci-Fly Mentoring, LSUHSC-NO  
 2019 Workshop Leader, Girls in STEM at Tulane, Tulane University