

Ashley E. Burch

EDUCATION

The University of Mississippi, Oxford, MS August 2014
Doctor of Philosophy in Experimental Psychology (Ph.D.)

The University of Mississippi, Oxford, MS December 2011
Master of Arts in Experimental Psychology (M.A.)

Augusta State University, Augusta, GA December 2006
Bachelor of Arts in Psychology (B.A.)

PROFESSIONAL POSITIONS

Assistant Professor August 2019 – Present
East Carolina University
Department of Health Services and Information Management, Greenville, NC

Research Assistant Professor January 2019 – July 2019
East Carolina Heart Institute
Department of Cardiovascular Sciences, Greenville, NC

Adjunct Research Assistant Professor September 2017 – December 2018
East Carolina University
Cardiac Psychology, Department of Psychology, Greenville, NC

Postdoctoral Scholar November 2015 – August 2017
East Carolina University and East Carolina Heart Institute
Cardiac Psychology, Department of Psychology, Greenville, NC

Postdoctoral Fellow November 2014 – November 2015
The University of Connecticut Health Center
Behavioral Medicine, Pat and Jim Calhoun Cardiology Center, Farmington, CT

Research Compliance Assistant November 2009 – August 2014
The University of Mississippi
Office of Research and Sponsored Programs, Oxford, MS

Lab Coordinator August 2009 – August 2014
The University of Mississippi
Psychophysiology Lab, Department of Psychology, Oxford, MS

Study Coordinator September 2007 – July 2009
The University of Utah
Neurophysiology Lab, Department of Neurology, Salt Lake City, UT

Research Technician October 2005 – May 2007
Medical College of Georgia
Stroke and Hypertension Research Lab, Department of Physiology, Augusta, GA

GRANTS

Alpha Phi Foundation	SUBMITTED 2018
Title: Understanding the Heart Beats of Women: Focus on Activity and Sleep Quality	
Role: Co-Investigator	
National Institute of Health, NIDDK	SUBMITTED 2018
Title: Physical Activity, Treatment Adherence, and Arrhythmia Burden Among ESRD Patients Initiating Dialysis	
Role: Principal Investigator	
ZOLL, Medical	2018
Title: Patient Centered Launch	
Role: Principal Investigator	
FUNDED: \$14,400	
ZOLL, Medical	2018
Title: Women's Cardiac Health Initiative	
Role: Principal Investigator	
FUNDED: \$21,000	
Heart Rhythm Society	2017-2018
Title: Atrial Fibrillation Screening Initiative	
Role: Co-Principal Investigator	
FUNDED: \$20,000	
Medtronic	2016-2018
Title: Patient Activity in Implantable Cardioverter Defibrillators Patients	
Role: Co-Principal Investigator	
FUNDED: \$87,305	
ZOLL, Medical	2016-2018
Title: Consulting for Studies Using Wearable Cardioverter Defibrillators	
Role: Co-Principal Investigator	
FUNDED: Year 1: \$124,704	
FUNDED: Year 2: \$124,972	
ZOLL, Medical	2016
Title: Wearable Cardioverter Defibrillators Trial Design Consultant	
Role: Independent Consultant	

PUBLICATIONS

Peer-Reviewed Journal Publications

- *Kropp, C.M., Huber, N.L., Sager, D., Tripp, C., **Burch AE**, Naniwadekar, A., Nekkanti, R., Sadaf, M.I., Mounsey, J.P., Sears, S.F. (in Progress). Atrial Fibrillation Rates in Walk-up Persons to Rural Pharmacies: Community Screening & Associated Risk Factors. *Heart and Lung*.
- Sears, S.F, Kropp, C.M., Tripp, C., Sager, D., Nekkanti, R., Hammerle, J.C., Wuensch, K., **Burch, A.E.** (in Review). Evaluation and Acceptance of Mobile-Electrocardiogram Use in Implantable Cardioverter Defibrillator Patients. *American Journal of Cardiology*.
- *Sager, D.S., **Burch, A.E.**, Alhosaini, H., Vaughan, T., & Sears, S.F. (in Review). Changes in cardiac anxiety and self-care practices in heart failure patients following implantation of wireless hemodynamic monitoring sensors. *European Journal of Cardiovascular Nursing*

*Tripp, C., **Burch, A. E.**, Erath, J., Hain, A., Sears, S.F. (in Print). Physical Activity in Adults with Wearable Cardioverter Defibrillators in the Post-Myocardial Infarction Period. *Journal of Cardiopulmonary Rehab and Prevention*

Burch, A. E., Scherr, D., Rieth, A., Griffin, J., Bianco, N. R., Odeneg, T., & Sears, S. F. (2019). Wearable cardioverter defibrillator-guided 6-minute walk test performed at home is accurate and reliable: Results of the TRENDS study. *Journal of Cardiopulmonary Rehab and Prevention*.

*Huber, N. L., **Burch, A. E.**, Spar, D. S., Bianco, N., & Sears, S. F. (2019). Children with Wearable Cardioverter Defibrillators: Examining Activity Levels via Accelerometer. *Progress in Pediatric Cardiology*, 101137.

Burch, A. E., Spar, D. S., & Sears, S. F. (2017). Wearable cardioverter defibrillators in schools: A guide for parents and educators. *Pacing and Clinical Electrophysiology*, 40(12), 1479-1482.

la Uz, C. M., **Burch, A. E.**, Gunderson, B., Koehler, J., & Sears, S. F. (2017). How active are young cardiac device patients? Objective assessment of activity in children with cardiac devices. *Pacing and Clinical Electrophysiology*, 40(11), 1286-1290.

Burch, A. E., Rash, C. J., & Petry, N. M. (2017). Cocaine-using substance abuse treatment patients with and without HIV respond well to contingency management treatment. *Journal of substance abuse treatment*, 77, 21-25.

Burch, A. E., Rash, C. J., & Petry, N. M. (2015). Sex effects in cocaine-using methadone patients randomized to contingency management interventions. *Experimental and clinical psychopharmacology*, 23(4), 284.

Burch, A. E., Morasco, B. J., & Petry, N. M. (2015). Patients Undergoing Substance Abuse Treatment and Receiving Financial Assistance for a Physical Disability Respond Well to Contingency Management Treatment. *Journal of Substance Abuse Treatment*, 58, 67-71.

Burch, A. E. & Allen, M. T. (2014). Stress task specific impairments of cardiovascular functioning in obese participants. *International Journal of Psychophysiology*, 94(1), 1-8.

Allen, M. T., Bocek, C. M., & **Burch, A. E.** (2011). Gender differences and the relationships of perceived background stress and psychological distress with cardiovascular responses to laboratory stressors. *International Journal of Psychophysiology*, 81(3), 209-217.

Rigsby, C. S., **Burch, A. E.**, Ogbi, S., Pollock, D. M., and Dorrance, A. M. (2007). Intact female stroke-prone hypertensive rats lack responsiveness to mineralocorticoid receptor antagonists. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*, 293(4) R1754-R1763.

Conference Abstracts

Burch AE, Kutiyfa V, Erath JW ,Assmus B, Bonderman D, Russo AM. (August, 2019). *Return to Physical Activity among Women Following Newly Diagnosed Dilated Cardiomyopathy or Myocardial Infarction*. European Society of Cardiology, Paris, France.

Kutyifa V, Erath JW, **Burch AE**, Assmus B, Bondermann D, Russo AM. (August, 2019). *Failure to Achieve Adequate Heart Rate Control in Women During Therapy Optimization*. European Society of Cardiology, Paris, France.

- Erath JW, Kutiyfa V, Assmus B, **Burch AE**, Bonderman D, Russo AM. (August, 2019). *Inadequate Heart Rate Control Begets Sustained Ventricular Arrhythmias in a Large Cohort of Women*. European Society of Cardiology, Paris, France.
- *Mooney SN, Cortez A, Abdel-Salam MT, Cash CM, Crumpler MD, Sutton AA, Smith DI, Varju EV, Sabu S, Birchall KE, Mounsey JP, **Burch, AE**. (July, 2019). *Impact of Perceived Atrial Fibrillation Symptom Burden on Quality of Life*. ECU Student Summer Research Symposium, Greenville, NC.
- Burch AE**, Kutiyfa V, Erath JW, Assmus B, Bonderman D, Russo AM. (May, 2019). *A Decline in Physical Activity Precedes Sustained Ventricular Arrhythmias in Women*. European Society of Cardiology Heart Failure, Athens, Greece.
- Schrotka L, Erath JW, Kutiyfa V, Assmus B, **Burch AE**, Russo AM, Bonderman D. (May, 2019). *Low Heart Rate at Follow Up Predicts Improvement of Ejection Fraction in a Large-Volume Cohort of Women with Wearable Cardioverter Defibrillator*. European Society of Cardiology Heart Failure, Athens, Greece.
- *Kropp CM, Huber NL, Sager D, Tripp C, **Burch AE**, Sadaf MI, Mounsey JP, Nekkanti R, Sears SF. (May, 2017). *Detection Of Previously Undiagnosed Atrial Fibrillation In Rural Pharmacies: Results Of The Heart Rhythm Society Screening Initiative*. Heart Rhythm Society, San Francisco, CA.
- Murray BA, Tichnell C, **Burch AE**, Burton A, Calkins H, Sears SF, James CA. (May 2019). *Genetic Counseling Is Associated With Increased Empowerment And Decreased Fear In Patients With Arrhythmogenic Cardiomyopathy (ACM)*. Heart Rhythm Society, San Francisco, CA.
- *Huber NL, Bianco N, Spar D, **Burch AE**, Sears SF. (April 2019). *Changes in physical activity in pediatric cardiac patients with a wearable cardioverter defibrillator over the first 60 days*. Society of Pediatric Psychology, New Orleans, LA.
- *Rhodes A, Kropp CM, **Burch AE**, Cahill J, Nekkanti R, Sears SF. (March, 2019). *Examination of Patient Activation among Implantable Cardioverter Defibrillator Patients*. Society of Behavioral Medicine, Washington DC.
- Erath JW, Kutiyfa V, Assmus B, **Burch AE**, Bondermann D, Russo AM. (March, 2019). *Sustained Ventricular Tachyarrhythmia Termination in a Large Cohort of Women with Wearable Cardioverter Defibrillator*. American College of Cardiology, New Orleans, LA.
- Burch AE**, Christiano C, Johnson S, Odenev T, Scherr D, Sears SF. (August, 2018). *Benefit of wearable cardioverter defibrillator in patients with end stage renal disease*. European Society of Cardiology, Munich, Germany.
- *Tripp C, **Burch AE**, Erath JW, Hain A, Sears SF. (May, 2018). *Activity Trends in Patients Recovering from Acute Myocardial Infarction: Recordings from a Wearable Cardioverter Defibrillator*. European Society of Cardiology Heart Failure, Graz, Austria.
- Burch AE**, Scherr D, Reith A, Griffin J, Bianco N, Odenev T, Sears SF (May, 2018). *6 Minute Walk Tests Performed at Home are Accurate and Reliable*. European Society of Cardiology Heart Failure, Graz, Austria.
- *Huber NL, Bianco N, Spar D, **Burch AE**, Sears SF. (May, 2018). *Activity in pediatric wearable cardioverter defibrillator users*. Heart Rhythm Society, Boston, MA.

- *Huber NL, Sears SF, **Burch, AE**. (April, 2018). *Wearable cardioverter defibrillator in a pediatric sample: Use and activity*. Society of Pediatric Psychology, Orlando, FL.
- Burch AE**, Sears SF. (October, 2017). *Patients with an ICD want to know: Can I...?* American Association of Cardiovascular and Pulmonary Rehabilitation, Charleston, SC.
- *Sager D, **Burch AE**, Alhosaini H, Vaughn T, Sears SF. (October, 2017). *Managing Congestive Heart Failure with Wireless Implantable Hemodynamic Monitors: Patient emotional and behavioral effects*. American Association of Cardiovascular and Pulmonary Rehabilitation, Charleston, SC.
- Burch AE**, Sager DM., Sears SF, Vaughan T, Cieszko A, Alhosaini H. (2017). Wireless Pulmonary Artery Pressure Monitoring Improves Physical Activity of Heart Failure Patients. *Journal of Cardiac Failure*, 23(8), S82-S83.
- Burch AE**, de la Uz C, Gunderson D, Koehler J, Sears SF. (May, 2017). *Objective measurement of physical activity in children with implantable cardiac devices*. Heart Rhythm Society, Chicago, IL.
- *Kropp CM, Sears SF, Benton C, **Burch AE**, Rhodes A, Sager D. (May, 2017). *Smartphone screening for atrial fibrillation: Device satisfaction and acceptance in implantable cardioverter defibrillator patients*. Heart Rhythm Society, Chicago, IL.
- Bianco CM, **Burch AE**, Cameron YL, Grewal DS, Puneet SP, Sears SF, Nekkanti, R. (November, 2016). *Adherence to appropriate use criteria for transesophageal echocardiography use in suspected infective endocarditis*. American Heart Association, New Orleans, LA.
- Bianco CM, **Burch AE**, Mawardi G, Lamm KM, Alhosaini H. (August, 2016). *The impact of hemolysis on outcomes of cardiogenic shock patients supported with Impella Percutaneous Left Ventricular Assist Device*. Heart Failure Society of America, Orlando, FL.
- Burch AE**, Allen, MT. (September, 2012). *Impaired cardiovascular functioning in obese participants*. Society for Psychophysiological Research Meeting, New Orleans, LA.
- Singleton JR, Marcus RL, Smith SB, Arsenault C, **Burch A**, Smith AG. (April, 2008). *Structured exercise improves small fiber function in diabetic subjects without overt neuropathy*. Annual American Academy of Neurology (AAN) Meeting, Chicago, IL.
- Smith AG, Bixby B, **Burch A**, Arsenault CJ, Singleton JR. (April, 2008). *Diagnosis of early diabetic neuropathy*. Annual American Academy of Neurology (AAN) Meeting, Chicago, IL.

*indicates student led project

PROFESSIONAL SERVICES

Institutional Review Board (IRB) Member, East Carolina University	2015 – Present
Institutional Animal Care and Use Committee (IACUC) Member, University of Mississippi	2012 – 2014
Institutional Review Board (IRB) Member, University of Mississippi	2011 – 2014
Institutional Review Board (IRB) Executive Committee Member, University of Mississippi	2011 – 2014
University of Mississippi Annual Psychology Research Festival Organization Committee	2014
Faculty Search Committee Member, Tenure Track Developmental Psychology Faculty	2012
Event Coordinator, Annual Mississippi Regional IRB Meeting	2012
Regional Science Fair Judge	2011, 2012
Psychology Colloquium, University of Mississippi	2009 – 2014

Neurology Weekly Journal Club Member, University of Utah 2007 – 2009
Physiology Weekly Journal Club Member, Medical College of Georgia 2005 – 2007

TEACHING EXPERIENCE

Sensation and Perception, Teaching Faculty 2016 - 2017
Brain and Behavior, Instructor 2012 - 2014
Introductory Statistics, Guest Lecturer 2014
General Psychology Honors Course, Guest Lecturer 2010, 2011
History and Systems of Psychology, Guest Lecturer 2010, 2011

HONORS/FUNDED AWARDS

European Society of Cardiology, Best Moderated Poster Presentation
East Carolina University Faculty Summer (2018) Travel Grant
University of Mississippi Summer Research Assistantship
University of Mississippi Graduate Student Research Grant
University of Mississippi Graduate Student Travel Award
University of Mississippi Graduate School Honors Fellowship

MEMBERSHIPS AND AFFILIATIONS

European Society of Cardiology
American Society of Nephrology
Heart Rhythm Society
Society for Psychophysiological Research
Psi Chi