SYDNEY E. ASHTON

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EDUCATION

2017 –	Ph.D. in Neuroscience University of Maryland School of Medicine , Baltimore, MD.
2013 – 2017	B.S. in Biology with Distinction James Madison University, Harrisonburg, VA. <i>Cum laude,</i> Honors College. Major GPA 3.70
2009 – 2013	High School Diploma Washington High School, Charles Town, WV. <i>Summa cum laude,</i> National Honor Society

RESEARCH EXPERIENCE

2018 -	Graduate Research Assistant, University of Maryland School of Medicine
	Faculty Mentor: Margaret McCarthy, Ph.D.

2015 – 2017 Honors Thesis Student, James Madison University

Faculty Mentor: Rocky Parker, Ph.D.

Thesis: Sex and seasonal differences in mRNA expression of sex steroid hormone receptors in the red-sided garter snake (Thamnophis sirtalis parietalis)

HONORS AND AWARDS

2017 – 2019	Institutional Training Grant, Training Program in Neuroscience T32NS063391, University of Maryland School of Medicine
2017	Charlotte Mangum Support Award, Society for Integrative and Comparative Biology, New Orleans, LA
2016	Best Student Presentation, First Place, UMBC Undergraduate Research Symposium in the Chemical and Biological Sciences, Baltimore, MD
2013 – 2017	Madison Achievement Award, James Madison University, Harrisonburg, VA
2012	Governor's Honors Academy of West Virginia, the State of West Virginia and the West Virginia Department of Education

PUBLICATIONS

VanRyzin, JW, AE Marquardt, KJ Argue, HA Vecchiarelli, **SE Ashton**, SE Arambula, MN Hill, and MM McCarthy. (2019). Microglial Phagocytosis of Newborn Cells Is Induced by Endocannabinoids and Sculpts Sex Differences in Juvenile Rat Social Play. *Neuron*.

Ashton, SE, BJ Vernasco, IT Moore, and MR Parker. (2018). Sex and seasonal differences in mRNA expression of estrogen receptor a (ESR1) in red-sided garter snakes (Thamnophis sirtalis parietalis). *General and comparative endocrinology*.

INVITED TALKS

SE Ashton & MR Parker. (2017). Searching for sex differences in snake skin. 57th Annual Meeting of the Society of Integrative and Comparative Biology. New Orleans, LA.

POSTER PRESENTATIONS

SE Ashton & MM McCarthy. (2019). Investigating developmental origins of sex differences in the rewarding properties of juvenile rat social play. 49th Annual Meeting of the Society for Neuroscience, Chicago, IL.

MM McCarthy, JW VanRyzin, KE Kight, EL Reinl, AE Marquardt, SE Arambula, **SE Ashton,** KT Davis, LA Pickett, and A Holley. (2019). Characterization of a CRISPR-generated rat model containing eGFP-Iba1 for study of microglia. 49th Annual Meeting of the Society for Neuroscience, Chicago, IL.

SE Ashton & MM McCarthy. (2019). Exploring sex differences in the rewarding properties of juvenile rat social play. Sex Differences, Dimorphisms, Divergences: Impact on Brain and Behavior in Health and Disease, Erice, Italy.

SE Ashton & MR Parker. (2017). Searching for sex differences in snake skin. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA.

SE Ashton & MR Parker. (2016). Searching for sex differences in snake skin. 19th Annual UMBC Undergraduate Research Symposium in the Chemical and Biological Sciences, Baltimore, MD.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

2020 -	Society for Behavioral Neu	uroendocrinology
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2017 – Society for Neuroscience

2015

2016 – 2017 Society for Integrative and Comparative Biology

TEACHING AND MENTORSHIP EXPERIENCE

2019	Mentor, Program in Neuroscience Rotation Students, University of Maryland School of Medicine
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2015 – 2017	Biology Tutor, James Madison University Organisms, Ecology and Evolution, Cell and Molecular Biology
2017	Teaching Assistant, Freshman Symposium in Biology, James Madison University
2017	Teaching Assistant, Honors First Year Seminar, James Madison University

Teaching Assistant, Cell & Molecular Biology Lab, James Madison University

University Service and Community Outreach

2020	Judge, Annual Roland Park Middle School Science Fair, Baltimore City Public Schools
2020 –	Examiner, Program in Neuroscience Mock Qualification Exam, University of Maryland School of Medicine
2019	Student Representative, Program in Neuroscience Seminar Series Selection Committee, University of Maryland School of Medicine
2019	Ethics Leader, Graduate School Orientation, University of Maryland School of Medicine
2019	UMB Representative, GBSfN Meeting Planning Committee , Greater Baltimore SfN Chapter
2019 –	Brain Awareness Week Chair, Neuroscience Outreach and Volunteer Association (NOVA), University of Maryland School of Medicine
2019 –	Scientist Pen Pal, Letters to a Pre-Scientist

2019 –	Committee Member, Program in Neuroscience Student Training Committee, University of Maryland School of Medicine	
2019 –	Mentor, Científico Latino Graduate School Mentorship Initiative for underrepresented students applying to STEM PhD programs	
2019 –	Core Scientist and Organizer, Rural STEM Education Program, Johns Hopkins University	
2018 –	Program in Neuroscience Representative, Graduate Student Association, University of Maryland School of Medicine	
2017 –	Member, Neuroscience Outreach and Volunteer Association (NOVA), University of Maryland School of Medicine	
2017	Service Committee Chair, Beta Beta Beta National Biological Honor Society, James Madison University Psi Beta Chapter	
2016 – 2017	Admissions Service Committee Chair, Student Ambassadors, James Madison University	
2016 – 2017	Herpetology Outreach Program (HOP), James Madison University	
2016 – 2017	Member, Beta Beta National Biological Honor Society, James Madison University Psi Beta Chapter	
2015 – 2016	Membership Board, Student Ambassadors, James Madison University	
2015 – 2017	Member, Student Ambassadors, James Madison University	