

Emily V.W. Setton

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Home Address

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Education

High School: Neenah High School, 2013. Summa Cum Laude (highest honors)

Undergraduate: University of Wisconsin—Madison, 2013-present. Expected graduation 2017

Majors: Biology, Anthropology

Certificates: Archaeology

Research

Biology 152 Independent Research Project, Dr. John Hawks' Lab, 2015

Assessing Sagittal Keel Thickness and Chewing Hypothesis in Inuits

Sharma Lab, 2016 (in review)

Expression and function of spineless orthologs correlate with distal deutocerebral appendage morphology in Arthropoda

Related Employment

Zoology Department, UW—Madison. Main office student hourly, 2013-2014

Evolutionary Biology hiring project, data entry, invoice reconciliation, copying, filing

Mail and package delivery

Zoology Department, UW—Madison. Zoology 102 student hourly, 2014-present

Laboratory set up, take down, and maintenance

Stockroom inventory, specimen inventory

Data entry / cataloging

Copying

Awards and Honors

Summa Cum Laude, Neenah High School, 2013

USPC Lakeshore Region Show Jumping Scholarship, \$75, 2014

USPC National Youth Congress Delegate, 2015

Biology 152 grant to print research poster, \$70, 2015

Laudier Histology Student Travel Grant, \$550, 2016

USPC Lakeshore Region Upper Level Prep Scholarship, \$75, 2016

USPC Lakeshore Region Show Jumping Scholarship, \$75, 2016

Teaching Experience

United States Pony Clubs (USPC)

Un-mounted (prep sessions, lectures, symposia): 2007-present

Mounted: 2009-present

Horseback riding lessons: 2009-present

Research interests and Philosophy

I am interested in how both environment and culture affect human morphology and induce phenotypic plasticity. Macroevolution, pathology, anatomy, and morphology are of interest to me, regardless of the organism studied. Currently, the relationships between genetic mechanisms of terrestrialization and subsequent changes in body plan has my attention. I am also interested in how appendicular versus respiratory fates are determined and the relationship, if any, between fitness and segment number. Current research focuses on the positional and genetic homology of respiratory and appendicular structures in model versus non-model arthropods.

My philosophy, when approaching any task, is to complete all work thoroughly and never take shortcuts. I pride myself on my ability to work independently and problem-solve, but I recognize that one learns through asking questions of peers and superiors. Thus, I make an effort to ask well-formulated questions to ensure a job is done properly and that I learn through my work.

Other Employment

Working Student, Meadow Brook Farm. Summers of 2012, 2013, 2014, 2015

Groom and general animal care

AI / breeding / foaling assistance

Maintenance and cleaning

Exercise rider

Advertising

Regent Market Co-op. April 2015-present

Cashier, bartending, stocking, inventory, data entry (manual), ordering, "key person" (closing shift leader)

Lake Shore Region Junior Board Chair. Volunteer. 2014-present

Data entry (excel)

Event coordination

Grant and application writing

Lead board meetings

Staff management / Leadership

Acting treasurer

Present to regional and national boards

Presentations

Poster, Biology 152 Research Poster Fair—UW—Madison, 2015. Advisor: Sarah Traynor

Assessing Sagittal Keel Thickness and Chewing Hypothesis in Inuits

Talk, 20th International Congress of Arachnology—Colorado School of Mines—Golden, CO, 2016. Advisor: Prashant P. Sharma

Developmental Genetics of Respiratory Structures in Arachno-pulmonate and Non-Arachno-pulmonate Orders

Talk. 2017 SICB Annual Meeting—New Orleans Convention Center—New Orleans, LA. 2017. Advisor: Prashant P. Sharma. (*Pending*)

Conservation of Sp6-9 function in patterning prosomal appendage fate of the spider Parasteatoda tepidariorum

Poster. Shoemaker and Setton. 2017 SICB Annual Meeting—New Orleans Convention Center—New Orleans, LA. 2017. Advisor: Prashant P. Sharma. (*Pending*)

Differential expression of dachshund in epipod and telopod derivatives suggests non-homology of crustacean gills and spider spinnerets

References

Gale Oakes

UW—Madison Dept. of Zoology.

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Peggy Nowicki

UW—Madison Dept. of Zoology

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Retired.

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