

**DR. EMMA S. PERRY**  
Professor of Marine Biology  
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## ACADEMIC DEGREES

### Ph. D. Biology

UNIVERSITY OF SOUTH FLORIDA

**1990-1997**

TAMPA, FLORIDA

DISSERTATION: Clypeasteroid intraskeletal matrix proteins.

The intraskeleton matrix proteins were extracted from a variety of clypeasteroid taxa. These proteins were then characterized and the data used to investigate the relationships between these proteins.

### B. Sc. Biology (Zoology) Hons.

UNIVERSITY OF EXETER

**1987-1990**

EXETER, DEVON, UNITED KINGDOM

## PROFESSIONAL EXPERIENCE

### Professor of Marine Biology

UNITY COLLEGE

**2015-present**

UNITY, MAINE

### Associate Professor of Marine Biology and Physiology

UNITY COLLEGE

**2004-2015**

UNITY, MAINE

### Assistant Professor of Marine Biology and Physiology

UNITY COLLEGE

**1997-2004**

UNITY, MAINE

BI 1014 Biology I, BI 1024 Biology II, BI 2033 Marine Biology, BI 3883 Tropical Marine Ecology, BI 4023 Coral Ecology and Management, BI 3253 Invertebrate Zoology, BI 3293 Entomology, BI 1213 Biological Imaging, BI3111 Themes in marine science: Coral Culturing.

### Graduate Teaching Assistant

UNIVERSITY OF SOUTH FLORIDA

**1991-1996**

TAMPA, FLORIDA

## GRANT AWARDS

|   |                          |
|---|--------------------------|
| Sequencing Tardigrades for publications, Flagship Faculty Grants for Scholarship  | \$1,484                  |
| Can foraging shorebirds provide us with a cheap index of marine community health? A pioneering effort to link bird activity and meiofaunal community structure, PADI Grant, 2018                    | \$5,522                  |
| NSF IUSE MATH: SUMMIT-P A national consortium for synergistic undergraduate mathematics via multi-institutional interdisciplinary teaching partnerships (Marine Biology & Calculus @ Unity College) | \$2.65 Million           |
| The intertidal distribution of intertidal tardigrades on Prince Edward Island, CA, Faculty Research award   | \$984.30                 |
| The relationship between morphology and ecology of <i>Echiniscoides sigismundi</i> and <i>E. wyethi</i> on Allen Island, Up East Foundation, 2016   | \$14,968                 |
| Faculty Undergraduate Mentor Award  | \$1000                   |
| Distribution and ecology of <i>Echiniscoides wyethi</i> on Allen Island, Up East Foundation, 2015   | \$14,880.36              |
| NSF ROA #1433142 supplemental funding to visit Kansas for 2 weeks (for myself and a bryologist)   | \$6679                   |
| Preliminary Biodiversity Surveys to Establish Baseline Trophic Structure at Allen Island, St. George, Knox Co., Maine, USA, Up East Foundation (with A.Arnett, D. Potter, A. Baker)                 | \$4,875.00 (\$13,035.00) |
| The Tardigrades of Maine, Faculty Research Award, Unity College 2014  | \$1,292.85               |
| The Tardigrades of Maine, Faculty Research Award, Unity College 2013  | \$819.46                 |
| A Preliminary Survey of the Tardigrades of Maine, Faculty Research Award, Unity College 2011  | \$1,624                  |
| Population study of <i>Mysis</i> Shrimp, Faculty Research Award, Unity College 2006   | \$2,500                  |
| SMARTer Kids grant for Smart Roomware products, 2002  | \$689                    |
| Institute of Biomolecular Science, Summer Fellowship Awards 1992, 1993.   | \$1,417                  |
| Institute of Biomolecular Science, Travel Grant, Summer 1993  | \$300                    |
| Dept. Biology, Travel Grant, Summer 1993  | \$200                    |
| Sigma Xi, Tampa Chapter   | \$100                    |

## PUBLICATIONS

- Perry, E.S., Miller, W.R. & Kaczmarek, Ł. (2019 in press) Recommended abbreviations for the names of genera of the phylum Tardigrada, Zootaxa <https://doi.org/10.11646/zootaxa.0000.0.0>
- Miller, W.R. & Perry, E.S. (2019) Adjustments to the Annotated zoogeography of non-marine Tardigrada. Part III: North America and Greenland by Kaczmarek, Michalczyk & McInnes (Zootaxa 4203). Zootaxa, 4543 (1):099-114
- Perry, E.S., Rawson, P., Ameral, N.J.^, Miller, W.R. and Miller J.D. (2018) *Echiniscoides rugostellatus* a new marine tardigrade from Washington, U.S.A. (Heterotardigrada: Echiniscoidea: Echiniscoididae), Proceedings of the Biological Society of Washington, 131: 182-193.
- Miller, W.R. and Perry, E.S. (2016) Marine Tardigrades of the Americas, Zootaxa, 4126 (3): 375-396 doi: 10.11646/zootaxa.4126.3.4
- Perry, E.S. and Miller, W.R. (2015) *Echiniscoides wyethi*, a new marine tardigrade from Maine, U.S.A. (Heterotardigrada: Echiniscoidea: Echiniscoididae), Proceedings of the Biological Society of Washington, 128 (1): 103-110. doi: 10.2988/0006-324X-128.1.103
- Perry, E.S., Miller, W.R. and Lindsay, S. (2015), Looking at tardigrades in a new light: using epifluorescence to interpret structure. Journal of Microscopy, 257: 117–122. doi: 10.1111/jmi.12190
- Creaser, E. S. 2013. *Why the Big Picture Matters*. Published online and emailed to every Sigma Xi member: <http://www.sigmaxi.org/programs/giar/newsletters/022013GIARNewsletter.shtml>
- Creaser, E.S. & Johnson, A. 2009. *Your life as an Environmental Biologist*. Published online: [www.thehighschoolgraduate.com/editorial/BO/environmental\\_biologist.htm](http://www.thehighschoolgraduate.com/editorial/BO/environmental_biologist.htm)
- Polson, E. S., Robbins, L. L. and Lawrence, J. M. 1993. *Intraskeletal matrix proteins in echinoderms*. Journal of the Marine Biological Association U.K., 73, 727-730.

## PUBLISHED ABSTRACTS FOR CONFERENCE PRESENTATIONS

- Perry, E.S.** 2018. An Initial Survey of marine tardigrades from Prince Edward Island, Canada. 14<sup>th</sup> International Tardigrade Conference, Copenhagen, Denmark
- Neitzel, S.B.^ & **Perry, E.S.** 2018. *Diphascon pingue brunsvicense* is a synonym for *Diphascon pingue*. 14<sup>th</sup> International Tardigrade Conference, Copenhagen, Denmark
- Perry, E.S.**, Meyer, H., Fontoura, P. & Miller W.R. 2018 Splitting the *Pseudechiniscus* line. 14<sup>th</sup> International Tardigrade Conference, Copenhagen, Denmark
- Shulze, S. & **Perry, E.S.** 2018 The first record of marine tardigrades from New Jersey, USA. 14<sup>th</sup> International Tardigrade Conference, Copenhagen, Denmark
- Diaz Eaton, C. & **Perry, E.S.** 2017. Diving into Calculus. CoRAL: A SUMMIT-P project. Joint Math Meetings, Atlanta,
- Perry, E.S.** 2017 The distribution of marine tardigrades in the intertidal zone of Allen Island, Maine. Northeast Natural History Conference, Worcester, MA
- McGarrigle, S.^, **Perry, E.S.**, McKnight, A., Bibles, B. and Welch, L. 2017. The effect of weather conditions on Common (*Sterna hirundo*) and Arctic (*Sterna paradisaea*) terns foraging patterns. Northeast Natural History Conference, Worcester, MA
- Meyer, H.A., Hinton, J.G. and **Perry, E.S.** 2017. New England Terrestrial Water Bears. Northeast Natural History Conference, Worcester, MA
- Gray, J.F.^ and **Perry, E.S.** 2017. Effects of forest changes on understory tardigrade populations in Waldo County, Maine. Northeast Natural History Conference, Worcester, MA
- Neitzel, S.B.^ and **Perry, E.S.** 2017. Determination of *Diphascon pingue* subspecies in Maine via modern morphometrics. Northeast Natural History Conference, Worcester, MA
- Rago, B.^ and **Perry, E.S.** 2017. Investigating the distribution of *Minibiotus intermedius* and *Macrobotus furcatus* in Acadia National Park. Northeast Natural History Conference, Worcester, MA
- Pittendreigh, J.^, Rago, B.^ and **Perry, E.S.** 2016. An initial survey of Tardigrada in Acadia National Park. 13th Acadia National Park Science Symposium, Schoodic Point, Maine.
- Perry, E.S.** & Miller W.R. 2015. The Tardigrade Fauna of Allen Island, Maine, U.S.A. 13<sup>th</sup> International Tardigrade Symposium, Modena, Italy.
- Tway, C; (**Creaser E.** faculty sponsor) 2011. Tardigrades of Mount Desert Island, Maine. Sigma Xi Student Research Conference, Raleigh Durham, North Carolina.
- Romney, C.; **Creaser, E.S.** & Arnett, A. 2008 *A Behavioral Response of Asterias forbesi*: Sensing Umami. Fifth NAEC, Florida Institute of Technology, FL
- Creaser, E.S.** 2006 Sigma Xi Grants-in Aid of Research. Council for Undergraduate Research 2006 National Conference: Learning through Research, DePauw University.
- Creaser, E. S.**, Malmberg, M. and Fox, D. 2000. *Integration of biology into an interdisciplinary environmental stewardship*

*curriculum*. American Zoologist, **39(5)**, 74A.

**Creaser, E. S.** 2000. *An unusual mucus gland on the tubefeet of Acrocnida brachiata, a burrowing brittlestar*. American Zoologist, **39(5)**, 52A.

**Polson, E. S.**, Robbins, L. L. and Lawrence, J. M. 1994. *Clypeasteroid skeletal matrix proteins (Abs)*. In: Echinoderms through time. David, B., Guille, A., Féral, J-P., Roux, M. (eds.), 835. Balkema, Rotterdam.

**Polson, E. S.**, Robbins, L. L. and Lawrence, J. M. 1992. *Shell matrix proteins - a potential tool for investigating the phylogenetic relationships of the Echinodermata*. The Paleontological Society, Special Publication **6**, 236. Abstracts and Program of the Fifth North American Paleontological Convention.

## **CHAPTERS REVIEWED**

Chapter 24: Circulation and Chapter 23: Transportation of Oxygen and Carbon Dioxide. *In: Animal Physiology 3ed.* Hill, R.W.; Wyse G.A. & Anderson M. *in press*. Sinauer Associates

Chapter 24: Circulation *In: Animal Physiology 2ed.* Hill, R.W.; Wyse G.A. & Anderson M. 2008. Sinauer Associates

## **INVITED WORKSHOP PRESENTATIONS**

Perry, E.S. 2018. Grant writing workshop. Sigma Xi Student Research Conference. San Francisco, CA

Creaser, E. S. 2010 and 2011 Successful Grant Writing using GIAR as a template, Sigma Xi Student Research Conference. Raleigh, NC

Creaser E. S. & Padgett, P. Successful Grant Writing: Using GIAR as a model Sigma-Xi annual meeting, Nov 2010 Raleigh, NC

Sigma-Xi annual meeting, Nov 2007 Orlando, FL – series of workshops explaining the role of GIAR to the different constituencies

North American AEE conference workshop – Adventure Bellydancing, April 11-13<sup>th</sup>, 2008

Inland Hospital Wellness, Waterville February 19<sup>th</sup>, 2008

Two sessions on in-service day March 19<sup>th</sup>, 2007; Fryeburg

Health and Wellness Presentation May 19<sup>th</sup>, 2007