

## James Edward Ivey, Ph.D.

### Professional Preparation

Darton College	Albany, GA	Biology	A.A. 1983
University of Georgia	Athens, GA	Economics	B.A. 1985
University of Southern Mississippi	Hattiesburg, MS	Marine Science	M.S. 1996
University of South Florida	St Petersburg, FL	Marine Science	Ph.D. 2009

### Professional Appointments

Instructor, Environmental Science Program	2018-present
Visiting Professor, Environmental Science Program	2016-2018
Adjunct Professor, Environmental Science Program	2015-2016

#### *Saint Petersburg College*

Adjunct Professor, Natural Sciences,	2012-2016
--------------------------------------	-----------

#### *Florida Fish and Wildlife Research Institute*

Research Associate, Harmful Algal Bloom section	2008-2016
---	-----------

### Products

#### *Publications*

- Millie, D. F., G. R. Weckman, W. A. Young, J. E. Ivey, D. P. Fries, E. Ardjmand, and G. L. Fahnenstiel. 2013. Coastal 'Big Data' and nature-inspired computation: Prediction potentials, uncertainties, and knowledge derivation of neural networks for an algal metric. *Estuarine, Coastal and Shelf Science*. **125**: 57-67.
- Millie, D. F., G. R. Weckman, W. A. Young, J. E. Ivey, H. J. Carrick, and G. L. Fahnenstiel. 2012. Modeling microalgal abundance with artificial neural networks: Demonstration of a heuristic 'Grey-Box' to deconvolve and quantify environmental influences. *Environmental Modeling & Software*. **38**: 27-39.
- Ivey, J. E. 2009. Closure Between Apparent and Inherent Optical Properties of the Ocean with Applications to the Determination of Spectral Bottom Reflectance. Dissertation. University of South Florida. 278 pp.
- Otis, D. B., K.L. Carder, D.C. English, and J.E. Ivey. 2004. CDOM transport from the Bahamas Banks. *Coral Reefs*. **23**: 152-160.
- Carder, K L., C. C. Liu, Z. Lee, D. C. English, J. Patten, F. R. Chen, J. E. Ivey, and C. O. Davis. 2003. Illumination and turbidity effects on observing faceted bottom elements with uniform Lambertian albedos. *Limnol. Oceanogr.* **48**: 355-363.

### *Other products*

Awarded \$300,000 in grants as PI and Author 2008-2012

Awarded two FIO ship time grants 2018-2020

Co-PI on Noyce Stem education grant in conjunction with USF College of Education

Planned, promoted, and participated in a regional workshop on Grey Box modeling of time-series data

Interviewed for 2016 TV program, "What on Earth", regarding research into Black Water Event in 2002.

Generated grant report for EPA on Detection Methods Detection of *Karenia brevis* blooms in the Gulf of Mexico: Evaluation and Comparison of Molecular, Optical and Hybrid Technologies

Designed and built three autonomous water quality platforms and transferred their data stream to GCOOS and SECOORA

### **Synergistic Activities**

Program coordinator for USF Environmental Science Graduate and Undergraduate Programs 2017-2018

Faculty Advisor, Living Green LLC, 2016-2019

Awarded Ultimate Extra Effort Award for FWRI in 2015

Over 33 cruises and field exercises including FSLE, CoBOP, and COPE exercises

Have extensive experience with oceanographic instrumentation

Managed employees, interns, and volunteers at FWRI

Reviewer for the scientific journal, *Harmful Algal Blooms* and *Applied Optics*