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Education

Ph.D. Marine Bioscience, University of Delaware, Present.

M.S. Biology, University of West Florida, 2008.

B.S. Marine Biology, University of West Florida, 2002.

Employment

Graduate Student, University of Delaware. 2010 - Present.

Lab Technician, Mercury content of Rainwater, University of West Florida. 5/2010 - 8/2010.

Adjunct Professor, University of West Florida. 2009 - 5/2010.

Teacher, Gulf Breeze High School. 2008 - 2009.

Biologist and Nutrient Analysis, Student Contractor, Environmental Protection Agency, Gulf Ecology Division. 2006 - 2008.

Professional Papers and Presentations:

Papers

Doll, C., **Main C.R.**, Bianco, C., Coyne, K.J., Greenfield, D.I. 2012. Comparison of sandwich hybridization assay (SHA) and quantitative PCR (QPCR) for the detection and quantification of live and preserved samples of the harmful alga *Heterosigma akashiwo* (Raphidophyceae). *Limnology and Oceanography: Methods*. (In Review)

Main, C.R., Salvitti, L.R., Whereat, E. Coyne, K.J. 2012. Associations between phytoplankton species and *Vibrio* in Delaware's inland bays. (In Prep)

Main C.R., Doll, C., Bianco, C., Coyne, K.J., Greenfield, D.I. 2012. Comparison of algal growth phase, macronutrient and light limitation for the quantification of *Heterosigma akashiwo* (Raphidophyceae) using quantitative real-time PCR (qPCR) and sandwich hybridization assay (SHA) (In Prep)

Presentations

Talks (*Presenter)

Main, Christopher R.*, Salvitti, L.R., Whereat, E., Farestad, M., Coyne, K.J. Investigating Associations between Harmful Algal Bloom Species and *Vibrio* in the Delaware Inland Bays. 15th International Conference on Harmful Algae, Gyeongnam, Republic of Korea. 2012.

Greenfield, Dianne I.*, Coyne, K.J., Doll, C., **Main C.R.**, Bianco, C. Comparative Analyses Of Sandwich Hybridization Assay And Quantitative PCR For The Harmful Raphidophyte *Heterosigma akashiwo*. 15th International Conference on Harmful Algae, Gyeongnam, Republic of Korea. 2012.

Main, Christopher*. Detection of the EsV-1 virus and species determination for *Ectocarpus*, especially from the northern Gulf of Mexico. Southeastern Phycological Colloquy, Valdosta State University, Valdosta, GA. 2009.

Poster (*Presenter)

Coyne, K.J.*, **Main, C.R.**, Bouchard, J.N., Polson, S.W., Warner, M.E., Transcriptome Profiling of *Heterosigma akashiwo*: Regulation of Gene Expression by Light and Nitrogen Source. 15th International Conference on Harmful Algae, Gyeongnam, Republic of Korea. 2012.

Main, C.R.*, Coyne, K.J. THE VIBRIO HABS CONNECTION: INVESTIGATING INTERACTIONS BETWEEN HARMFUL ALGAL BLOOM SPECIES AND PATHOGENIC *VIBRIO*. 6th Symposium on Harmful Algae in the US Austin, TX. 2011.

Doll, C.*, Greenfield, D., **Main, C.**, Coyne, K. J. DETERMINING FACTORS THAT INFLUENCE MOLECULAR QUANTIFICATION OF THE HARMFUL RAPHIIDOPHYTE *HETEROSIGMA AKASHIWO* USING A SANDWICH HYBRIDIZATION ASSAY (SHA). 6th Symposium on Harmful Algae in the US Austin, TX. 2011.

Coyne, K. J.*, Salvitti, L., Tilney, C., **Main, C.**, Warner, M., Kelly, D., Mangum, A., Ozbay, G. CARBON ACQUISITION STRATEGIES OF THE TOXIC DINOFLAGELLATE, *KARLODINIUM VENEFICUM*, UNDER CLIMATE CHANGE CONDITIONS. 6th Symposium on Harmful Algae in the US Austin, TX. 2011.

Awards and Scholarships:

Okie Fellowship, University of Delaware. 2010 - 2011.

Outstanding Graduate Teaching Assistant of the Year, University of West Florida. 2006.

Graduate Research Assistantship, University of West Florida. 2006.

Pace Graduate Scholarship, University of West Florida. 2004 - 2006.

Volunteer and Outreach

Ecology Field Trip, Cab Calloway School of the Arts. 2012

Governors School of Delaware. 2011 - 2012

Sussex County Science Fair, Judge. 2011 - 2012.

Sussex Academy of Arts and Science Fair, Judge. 2011.

Annual West Panhandle Regional Science and Engineering Fair, Judge. 2004 - 2007.