**Erin Brooke Jones, Ph.D.**

Bio-physical Oceanographer

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**EDUCATION**

2015 **Ph.D. Marine Science-Physical Oceanography**

Department of Marine Science

University of Southern Mississippi

Dissertation: *Assessing biogeochemical impacts and environmental conditions associated with cross-shelf high chlorophyll blooms in the Northern Gulf of Mexico*

2008 **B.S. Biological Sciences*, cum laude***

University of Southern Mississippi

Thesis: *An optimized protocol for the purification of Eumetopias jubatus serum IgG*

**REFEREED PUBLICATIONS**

Jones, E.B. and J.D. Wiggert (2015), Characterization of a high chlorophyll plume in the northeastern Gulf of Mexico. *Remote Sensing of Environment, 159*, 152-166.

Lohrenz, S., Chakraborty, S., Huettel, M.,  Herrera Silveira, J., Gundersen, K.,  Redalje, D.,  Wiggert, J., Jones (Denton), E.B., and  J. Lehrter. Primary Production. In: Benway, H. M., Coble, P. G. (Editors), 2014. Report of The U.S. Gulf of Mexico Carbon Cycle Synthesis Workshop, March 27-28, 2013, Ocean Carbon and Biogeochemistry Program and North American Carbon Program, pp. 21-25.

**AWARDS AND FELLOWSHIPS**

2014 USM-DMS Marine Science Student Scholar Award 2014-2015 (total of $30,000)

2010- Three time NASA Graduate Student Researchers Program fellowship recipient 2010-2013 (total of $90,000)

**INVITED TALKS**

2015 *Ocean color signals associated with a 2007 high-chlorophyll plume in the Northern Gulf of Mexico*, Marine Technology Society, 04/09/2015

**RESEARCH EXPERIENCE**

2016- **Postdoctoral Research Associate**

Project lead for DAP (Defining Abnormal events of oceanographic biological physical Properties in the Gulf of Mexico)

Developed method to scale model output and satellite data for Gulf of Mexico

Computed coincident anomaly fields for satellite data and model output (2013-2015)

Cross-analyzed satellite data, model output, and NOAA cruise measurements

Assisted in progress report generation

Co-prepared training/information webinar for federal scientists and managers

2008-**Graduate Research Assistant**

2015 Designed/implemented multi-year biogeochemical research study in the Gulf of Mexico

Analyzed impacts of physical conditions and biological processes to marine ecosystems over time (daily, week, annual, decadal)

Assisted students and student researchers with course work and analysis techniques

Produced annual progress and final reports for NASA

Collaborated with academic scientists, federal scientists and Gulf of Mexico managers

Presented findings to government and academic audiences (e.g. publications, talks, posters)

2014 **Attendee of the Cornell Satellite Remote Sensing Training Program**

Intensive training for environmental remote sensing analysis and interpretation

2013-**Coastal Carbon Primary Productivity Workgroup member**

2015

2011**Attendee of the Helmholtz-Zentrum Geesthacht Summer School**

‘Climate Change and Impact on the North Sea’

2009**Field Assistant-MAGmix Research Cruise**

CTD rosette sampling

Prepared samples for HPLC, CDOM, DOC, and POM assays

2007-**Research Assistant**

2008 Immuno-Molecular study of immune systems of Steller Sea Lion and Bottlenose Dolphin

Training of newer student researcher

**SERVICE**

2016 Manuscript review, Remote Sensing of Environment

2012 Secretary for USM-student chapter of the Marine Technology Society

2009 Conference volunteer, OCEANS ’09, Biloxi, MS

**PROFESSIONAL SKILLS**

Physical and biogeochemical ocean modeling (POM, ChesROMS)

Statistical software,

Programming (FORTRAN, MATLAB, Perl, Python, Unix Scripting)

SeaDAS satellite image analysis software

SOEST Generic Mapping Tools (GMT)

**PROFESSIONAL AFFILIATIONS**

The Oceanography Society student member, 2011-present

American Geophysical Union student member, 2010-present

American Society of Limnology and Oceanography student member, 2010-present

Golden Key International Honour Society 2009-Present