

VITAE

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POSITION: Sr. Research Scientist Marine Laboratory, Sanibel-Captiva
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EDUCATION

<u>University</u>	<u>Major</u>	<u>Dates</u>	<u>Degree</u>
Humboldt State University	Biology	1997	B.S.
University of Oregon	Biology	2003	Ph.D.

AWARDS

2002. University of Oregon Doctoral Research Fellowship, Dept. of Biology Nominee.
2002. American Society for Limnology and Oceanography student poster award, Victoria, B.C.
1998-2001. NOAA Graduate Research Fellow, South Slough National Estuarine Research Reserve
1996. NSF Research Experience for Undergraduates (REU) Fellow

PROFESSIONAL EXPERIENCE

<u>Dates (yrs.)</u>	<u>Position</u>	<u>Employer/Affiliation</u>
2007-present	Research Scientist	SCCF Marine Laboratory
2006-2007	Interim Director	SCCF Marine Laboratory
2003-2006	Research Scientist	SCCF Marine Laboratory
2008-present	Affiliate Member	Coastal Watershed Institute, FGCU
2005-present	Adjunct Graduate Faculty	Florida Gulf Coast University
1999-present	Courtesy Faculty	Florida Gulf Coast University

RELATED RESEARCH (partial)

<u>Granting Agency</u>	<u>Title</u>	<u>Amount</u>
City of Sanibel	Bioavailable nutrients and macroalgae, Co-PI, PI: Loh, FGCU	\$152,000
City of Sanibel	Hydroacoustic survey of macroalgae, Co-PI, Coen	\$93,000
SFWMD	Optical Properties to Predict Light Levels and Thresholds	\$25,000
CHNEP	Identification of microbes critical to the enhancement of seagrass restoration	\$18,458
Seagrass Recovery	Methods manual for <i>Vallisneria americana</i> restoration	\$15,000
WCIND	Restoration of propeller scars in Charlotte Harbor	\$10,000
SFWMD	Impact and Response to Lake Okeechobee Discharges, PI Co-PI Alberte, FGCU	\$100,000
SFWMD	Mangrove Restoration of Shell Point	\$25,000
City of Sanibel	Ecological Assessment of Clam and Dinkins Bayou	\$30,000
SFWMD	Feasibility of Mangrove Restoration on Sanibel Island	\$25,000
SFWMD	Red Drum Habitat Preferences, Co-PI, PI, Bortone (SCCF)	\$325,000
NOAA/NERRS	Microbial Ecology of South Slough Estuaries	\$45,000

SELECTED PUBLICATIONS

- Milbrandt, E.C., P.G. Coble, R.M. Comny, A.J. Martignette, J. Siwicke, in prep, Novel mechanism for formation of high CDOM, high salinity water in shallow subtropical estuaries. *Limnology and Oceanography*.
- Milbrandt, E.C., in review, The effects of root zone manipulations on turtle grass (*Thalassia testudinum*) transplants. *FL Scientist*, Charlotte Harbor Special Issue.
- Milbrandt, E.C., J.M. Greenawalt, P.D. Sokoloff, 2008, Short-term indicators of seagrass transplant stress in response to rhizosphere and bacterial community disruption. *Botanica Marina* 51:103-111.
- Milbrandt, E.C., J.T. Evans, 2007, Hydrological restoration and ecological response in an impounded mangrove lagoon. *Ecosystem Restoration and Creation Conference Proceedings*.
- Milbrandt, E.C., J.M. Greenawalt, P.D. Sokoloff, S.A. Bortone, 2006, Impact and response of southwest Florida mangroves to the 2004 hurricane season, *Estuaries and Coasts* 29(6A):979-984.
- Proffitt, C.E., E.C. Milbrandt, S.E. Travis, 2006, Reproduction and recruitment of *Rhizophora mangle* (Red Mangroves) in Charlotte Harbor following hurricane Charley, *Estuaries and Coasts* 29(6A):972-978.
- Milbrandt, E.C. and M.L. Tinsley, 2006, The role of saltwort (*Batis maritima*) on mangrove forest succession, *Hydrobiologia* 568:369-377.
- Milbrandt, E.C., 2005, Bacteria communities as an indicator of estuarine and sediment conditions, in Bortone, S.B., *Estuarine Indicators*, CRC Press, Boca Raton, 2004.
- Milbrandt, E.C., 2003, *Microbial Ecology of South Slough: community composition of bacteria and patterns of occurrence*, Ph. D. dissertation, University of Oregon.
- Milbrandt, E.C., 2003, *Genetic Diversity of Bacteria in Restored and Mature Estuarine Wetland Sediments*, Report to Sanctuary and Reserves Division, National Oceanic and Atmospheric Association, 18 pp.
- Milbrandt, E.C., 2002, Communities of bacteria as a metric for gauging restoration success, *Earth Systems Monitor* 12(2): 5-8.