

CURRICULUM VITAE

ANDY K. CANION

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EDUCATION

Pursuing Ph.D., Oceanography, Florida State University, Tallahassee, FL
2008 M.S. Marine Science, University of South Alabama, Mobile, AL
2004 B.S. Biology, Summa cum Laude, University of Mississippi, Oxford, MS

RELEVANT COURSEWORK

2004 Ocean Optics: Observing Ocean Biogeochemistry with Optics, Darling Marine Center, Damariscotta, ME
2005 Physiological Ecology of Marine Microalgae, Dauphin Island Sea Lab, Dauphin Island, AL
2005 Biometry, University of South Alabama, Mobile, AL
2005 Introduction to Time Series Analysis, Dauphin Island Sea Lab, Dauphin Island, AL
2006 Marine Analytical Methods, Dauphin Island Sea Lab, Dauphin Island, AL
2007 PRIMER-E Statistical Workshop: Analysis of Multivariate Data in Ecology, Weeks Bay Reserve, Fairhope, AL
2007 Chlorophyll Fluorescence Techniques, Dauphin Island Sea Lab, Dauphin Island, AL

PUBLICATIONS AND PRESENTATIONS

- Canion, A.K. 2008. Variability in Productivity Model Inputs on Multiple Timescales: Implications for Productivity Monitoring in Weeks Bay, Alabama. Masters Thesis, University of South Alabama, Mobile, AL.
- Canion, A.K. and C.A. Ochs. 2005. The Population Dynamics of Freshwater Armored Dinoflagellates in a Small Lake in Mississippi. *Journal of Freshwater Ecology*. 20: 617-626.
- Canion, A.K., MacIntyre, H.L., Phipps, S.W. Variability in Productivity Model Inputs on Multiple Timescales: Implications for Productivity Monitoring in Weeks Bay. 2008. ASLO Ocean Sciences Meeting, Orlando, FL.
- Canion, A.K., MacIntyre, H.L., Phipps, S.W. Hourly to Monthly Variability in Environmental Forcing Factors and the Response of Phytoplankton in Weeks Bay, Alabama.
- 2006 Mississippi-Alabama Bays and Bayous Symposium (Poster).
 - 2007 ASLO Aquatic Sciences Meeting, Santa Fe, NM (Poster).
- MacIntyre, H.L., Canion, A.K., Stutes, A.L., Smith, W., Dorsey, C. Estimating Microalgal Abundance and Productivity in Estuarine Waters from 2-D Bio-Optical Mapping. 2006. Mississippi-Alabama Bays and Bayous Symposium, Mobile, AL (Poster).

MacIntyre, H.L., Stutes, A.L., Liefer, J.L., Canion, A.K., Smith, W., Dorsey, C., Murray, D., Granade, H.R., Abraham, A., and R.W. Dickey. Water Quality, mixing and harmful algal blooms: Mobile Bay, Alabama. 2005. Estuarine Research Federation Meeting (Oral, presented by MacIntyre).

Canion, A.K. Comparative Population Dynamics of freshwater dinoflagellates of the genera *Peridinium* and *Peridiniopsis*.

- 2004 Mississippi Academy of Sciences Annual Meeting, Biloxi, MS (oral).
- 2004 Southeastern Phycology Colloquy, Dauphin Island, AL (oral).
- 2005 Graduate Student Symposium, LUMCON, Cocodrie, LA (oral).

AWARDS AND HONORS

2005 NOAA National Estuarine Research Reserve (NERR) Graduate Research Fellowship
2004 Competitive Graduate Fellowship, University of South Alabama
2004 Taylor Medal (Highest Academic Honor), University of Mississippi
2004 Frank Montgomery Hull Award for Excellence in Biology, University of Mississippi
2004 Sally McDonnell-Barksdale Honors College Graduate, University of Mississippi
2003 Phi Beta Kappa, University of Mississippi
2003 Beta Beta Beta Biological Honor Society

EMPLOYMENT HISTORY

Research Technician, Dauphin Island Sea Lab, AL (January – June 2008)

- Microalgal physiology and ecology

Teaching Assistant, Dauphin Island Sea Lab, AL (June 2005)

- Teaching assistant for an undergraduate marine botany course

Research Assistant, University of Mississippi, Oxford, MS (August - December 2002, June-August 2003)

- Assistant in a microbial ecology laboratory under Dr. Cliff Ochs (Research on effects of UV on competition between algae and bacteria)

Research Assistant, University of Mississippi, Oxford, MS (May - July 2002)

- Summer position in an organic chemistry laboratory under Dr. Daniel Mattern (Research on synthesis of donor-sigma-acceptor molecules)

Teaching Assistant, University of Mississippi, Oxford, MS (January - May 2002)

- Teaching assistant for a lab for non-biology majors

Assistant Lab Instructor, University of Mississippi, Oxford, MS (August - December 2001)

- Assistant to a graduate TA in a freshman general biology lab

PROFESSIONAL ACTIVITIES

2008 – Present	Member of the Thalassic Society at Florida State University
2006	Organization committee for the Graduate Student Symposium for Marine Science graduate students in the central Gulf of Mexico
2005 – 2006	President of the University of South Alabama Marine Science Graduate Student Organization
2004 – 2008	Member of the University of South Alabama Marine Science Graduate Student Organization
2003 – 2004	President of Students for Environmental Awareness, University of Mississippi
2003 – Present	Member of Advancing the Science of Limnology and Oceanography (ASLO)

FIELD EXPERIENCE

- Assisted with logistical planning, running underway bio-optical analyses and discrete sample collection on monthly research cruises in Mobile Bay and nearshore Gulf of Mexico from January 2005 – May 2008.
- Maintained moorings of optical instrumentation in Weeks Bay, Alabama, during 2-week deployments in March and July 2006

INSTRUMENT AND SOFTWARE EXPERIENCE

- Agilent 1100 HPLC system (including ChemStation software)
- Costec CNS Elemental Analyzer
- Ocean Optics USB2000 Spectrophotometer
- Photosynthetron (¹⁴C photosynthesis vs. irradiance curves)
- Satlantic ISUS optical nitrate meter
- Shimadzu TOC analyzer
- Turner TD700 fluorometer
- WET labs ac9 *in-situ* absorption and scattering meter
- YSI 6600 Water Quality Monitor
- Matlab
- Microsoft Office
- Minitab Statistical Software
- PRIMER-E Statistical Software