

Steven Traynum

Marine Science Program
University of South Carolina
709 Buckingham Rd.
Columbia SC, 29205
803-727-3877
Steven.Traynum@msci.sc.edu

Education:

- 2005-present Masters of Science Candidate, University of South Carolina
Dr. Richard Styles - Advisor
- 2005 B.S. Marine Science with honors from the Honors College of the
University of South Carolina - Cum Laude, 3.67 GPA

Employment:

- 2006-present Graduate Teaching Assistant: Marine Science Program, University
of South Carolina. Advisor - Dr. Richard Styles
- 2005-2006: Graduate Research Assistant: Dr. Richard Styles, Boundary Layer
Stress and Sediment Transport Laboratory, Department of
Geological Sciences and Marine Science Program, University of
South Carolina, Columbia, SC.
- 2004 Outdoor Program Guide: Spring Canyon Christian Camp and
Conference Center, Buena Vista, CO.
- 2004-2005: Undergraduate research assistant, Dr. Richard Styles, Boundary
Layer Stress and Sediment Transport Laboratory, Department of
Geological Sciences and Marine Science Program, University of
South Carolina, Columbia, SC.
- 2003-2004: Undergraduate research assistant, Dr. Douglas Williams,
Department of Geological Sciences and Marine Science Program,
University of South Carolina, Columbia, SC.
- 2003: Web Page designer, Marine and Aquatic Research Experience
(MARE), University of South Carolina, Columbia, SC.

Publications:

- Traynum, S., and R. Styles, 2007. Flow, stress, and sediment resuspension in a shallow tidal channel. *Estuaries and Coasts*: 30(1). (in press)

Traynum, S., and R. Styles, (submitted). Exchange flow between two estuaries connected by a shallow tidal channel. *Journal of Coastal Research*.

Presentations:

Traynum, S., and R. Styles, 2006. Flow between two estuaries connected by tidal creeks and its response to coastal wind stress. South Eastern Estuarine Research Society Meeting. Poster. October 2006, Savannah, GA.

Traynum, S, H. Bull, and R Styles, 2006. Exchange flow characteristics between two estuaries as a function of wind, discharge and sea-level. American Geophysical Union Ocean Sciences Meeting. Oral Presentation. February 2006, Honolulu, HI.

Traynum, S and R Styles, 2005. Sediment exchange near a tidal node during high discharge conditions. Estuarine Research Federation 2005 Meeting. Oral Presentation Norfolk, VA.

Traynum, S. and R Styles, 2005. Mixing and sediment transport near a tidal node during high discharge conditions. Poster, Discovery Day, University of South Carolina, 2005

Traynum, S., 2004: Microbial-mediated O₂ consumption in the Winyah Bay Estuary. Poster, Discovery Day, University of South Carolina, 2004.

Traynum, S., 2003: Seasonal variation of dissolved oxygen in Georgetown Harbor, SC. Poster, Discovery Day, University of South Carolina, 2003.

Traynum, S., Fowler, J., and Williams, D.F., 2003: MARE: Sophisticated undergraduate research at the University of South Carolina. Poster, South Carolina Academy of Sciences, 2003.

Honors/Awards:

2006-2007	Pi Fellowship Recipient
2001-2003, 2003-2005	Dean's Honor List, University of South Carolina
2004:	President's medal for volunteer services (over 100 hours)
2002:	Alpha Lambda Delta Honor Society

Organizations:

2001-2005:	Marine and Aquatic Research Experience for Undergraduates
2002-2004:	University of South Carolina Ultimate Frisbee Club, President 2003-2004
2002-2005:	Fellowship of Christian Athletes, Leadership
2002-2004:	Shandon Baptist Church College Ministry Leadership

2004: University of South Carolina Cycling Club
2002-2005: Member, Alpha Lambda Delta Honor Society

Services:

2006-2007 Pi Fellow – teaching 6th grade science at local middle school one day per week.
2006: Adventures in Marine Science Course Instructor, Carolina Master Scholars Continuing Education Program
2003: Over 100 hours volunteer services at Palmetto Health Baptist Hospital
2003: Over 100 hours volunteer services at Columbia Free Medical Clinic

Independent Studies/Research:

2005-present Exchange flow characteristics between two estuaries as a function of wind, discharge and sea-level.
2004-2005: Mixing and sediment transport near a tidal node during high discharge conditions. Honors College Senior Thesis. Director: Dr. Richard Styles.
Spring 2004: Seasonal variation of biological oxygen demand and respiration rates in Winyah Bay Estuary. Advisor: Dr. Douglas Williams.
Fall 2003: Seasonal variation of dissolved oxygen in Georgetown Harbor, SC. Advisor: Dr. Douglas Williams.