

CURRICULUM VITAE

ELYSE ALYXANDRA WALKER



BIOGRAPHICAL INFORMATION

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Research Interests: harmful algal blooms; phytoplankton ecology and physiology; phytoplankton monitoring systems

EDUCATION

(expected 2013) Ph.D. in Marine Sciences, Stony Brook University, advisor: Dr. Christopher J. Gobler
2008 B.S. in Marine Science, University of South Carolina, mentor: Tammi Richardson

WORK EXPERIENCE

May 2008 – June 2009, June 2009 – Present Research Assistant, Mentor: Dr. Christopher J. Gobler, School of Marine and Atmospheric Sciences, Stony Brook University

Jan – May, Aug 2007 – May 2008 Undergraduate Student Worker (Volunteer Nov 2006 – Jan 2007), Mentor: Dr. Benjamin Twining, Department of Chemistry, University of South Carolina

June – Aug 2007 Internship, Mentor: Dr. Susan Wilde, South Carolina Department of Natural Resources, Waddell Mariculture Center

May – Aug 2006 Science Undergraduate Laboratory Internship, Mentor: Dr. Dana Woodruff, Battelle Marine Research Operations, Pacific Northwest National Laboratory

Jan – May 2006 Undergraduate Student Worker, Mentor: Dr. James Pinckney, Department of Biological Sciences, University of South Carolina

May – Oct 2005 Undergraduate Student Worker (Volunteer Jan – May 2005), Mentor: Dr. Tammi Richardson, Department of Biological Sciences, University of South Carolina

RESEARCH FUNDING

2011 – Present Research Assistant, National Oceanic and Atmospheric Administration Center for Sponsored Coastal Ocean Research, Principal Investigators: Dr. Sonya Dyhrman (Woods Hole Oceanographic Institute) and Dr. Christopher Gobler (Stony Brook University)

2009 – 2011 Fellow, New York Sea Grant, Principal Investigators: Dr. Jackie Collier and Dr. Christopher Gobler (Stony Brook University)

May – Aug 2006 Science Undergraduate Laboratory Internship, U.S. Department of Energy Office of Science, Mentor: Dr. Dana Woodruff, Battelle Marine Research Operations, Pacific Northwest National Laboratory

May – Aug 2005 Howard Hughes Undergraduate Research Scholarship (\$3000), Mentor: Dr. Tammi Richardson, Department of Biological Sciences, University of South Carolina

PUBLISHED PAPERS

Gobler, C.J., D.L. Berry, S.T. Dyhrman, S.W. Wilhelm, A. Salamov, A.V. Lobanov, Y. Zhang, J.L. Collier, A.B. Kustka, L.L. Wurch, A. Kuo, A. Terry, J. Pangilinan, E. Lindquist, S. Lucas, I. Paulsen, T.K. Hattenrath, S.C. Talmage, **E.A. Walker**, F. Koch, A.M. Burson, M.A. Marcoval, Y.-Z. Tang, G.R. LeClerc, G.M. Berg, K.J. Coyne, E.M. Bertrand, M.A. Saito, V. Gladyshev, I.V. Grigoriev (2011) Niche of harmful alga *Aureococcus anophagefferens* revealed through ecogenomics. *Proceedings of the National Academy of Sciences*: 108(11):4352-4357.

Richardson, T.L., E. Lawrenz, J.L. Pinckney, R.C. Guajardo, **E.A. Walker**, H.W. Paerl, H.L. MacIntyre (2010) Spectral fluorometric characterization of phytoplankton community composition using the Algae Online Analyzer®. *Water*

Research 44(8):2461-2472.

Twining, B.S., S.B. Baines, J.B. Bozard, S. Vogt, **E.A. Walker**, D.M. Nelson (2010) Metal quotas of plankton in the equatorial Pacific Ocean. *Deep-Sea Research II*.

Walker, E (2007) Nutrient limitation on the plankton communities from a river-dominated bay and a tidal estuary in South Carolina, USA. *MarSci* 4.

Richardson, T.L., J.L. Pinckney, **E.A. Walker**, D. Marshalonis (2006) Photopigment radiolabelling as a tool for determining in situ growth rates of the toxic dinoflagellate *Karenia brevis* (Dinophyceae). *European Journal of Phycology* 41(4):415-423.

PRESENTATIONS/SEMINARS

Walker, E.A., L.L. Wurch, S.T. Dyhrman, C.J. Gobler (November 2011) Quantitative expression patterns of nitrogen metabolism genes in the brown tide alga, *Aureococcus anophagefferens*. 6th *Symposium on Harmful Algae in the U.S.*: Austin, TX.

Walker, E. (August 2007) Harmful Algae and Aquaculture. *Waddell Mariculture Center Internship Symposium*: Bluffton, SC.

Walker, E. & D. Woodruff (August 2006) Methodology Development for Monitoring the Diatom *Pseudo-nitzschia* spp. in Coastal and Estuarine Waters of the Pacific Northwest. *Battelle Marine Research Operations Seminar*: Sequim, WA.

Walker, E. (March 2006) SEAS RD: Undergraduate Opportunities in Research. *Southeastern Estuarine Research Society Conference*: St. Augustine Beach, FL.

Walker, E. & T. Richardson (August 2005) Phytoplankton Community Composition at Clambank Creek, SC, as Measured by HPLC and Spectral Fluorometry. *Howard Hughes Undergraduate Award Symposium*: Columbia, SC.

POSTERS

Walker, E. & C. Gobler (April 2011) Using molecular tools to resolve the causes of chronic brown tides on Long Island's south shore. *Stony Brook Southampton Coastal and Estuarine Research Program Symposium*: Southampton, NY.

Walker, E. & C. Gobler (April 2010) Using molecular tools to resolve the causes of chronic brown tides on Long Island's south shore. *Stony Brook Southampton Coastal and Estuarine Research Program Symposium*: Southampton, NY.

Walker, E. & C. Gobler (April 2009) Brown tide blooms in New York estuaries, 2007 – 2008. *Stony Brook Southampton Coastal and Estuarine Research Program Symposium*: Southampton, NY.

Walker, E. & D. Woodruff (October 2007) Identification and enumeration of *Pseudo-nitzschia* in Pacific Northwest coastal waters using the FlowCAM® continuous imaging particle analyzer. 4th *Symposium on Harmful Algae in the U.S.*: Woods Hole, MA.

Walker, E. & T. Richardson (April 2005) Growth Rates of the Toxic Dinoflagellate *Karenia brevis* in Response to Variations in Light and Grazing. *Discovery Day*: Columbia, SC.

SCHOLARSHIPS, AWARDS AND GRANTS

Fall 2008 – Spring 2009 Stony Brook University's School of Marine and Atmospheric Sciences Dean's Fellowship (\$3,500)

2008 Who's Who Among Students in American Universities & Colleges, Nomination by the University of South Carolina

Fall 2007 University of South Carolina's Marine Science Program Travel Grant (\$500)

Fall 2007 Magellan Voyager research travel grant (\$500)

April 2005 1st Place Poster in the Earth Science Category at Discovery Day (\$300)

2004-2008 McKissick Scholars Scholarship (\$2000 per semester)

2004-2005 Federal Pell Grant (\$500 per semester)

TEACHING EXPERIENCE

Spring 2009 Teaching Assistant, Marine Sciences, Stony Brook University

Sept 2008 – May 2009 Math/Science Tutor, Educational Opportunities Program, Stony Brook University

Fall 2008 Teaching Assistant, Biology Department, Stony Brook University

2004 – 2008 Math/Music/Biology Tutor, Various Undergraduate Students

2004, 2001-2002 Volunteer (Husbandry, Education, Docent), Poulsbo Marine Science Center, Poulsbo, WA

FIELD EXPERIENCE

May – Aug 2007 Animal Husbandry at Waddell Mariculture Center, Bluffton, SC
May – Aug 2006 Research at Battelle Marine Research Operations, Sequim, WA
2004 - 2008 Research at Belle W Baruch Marine Field Lab, Georgetown, SC
2001-2002, 2004 Field Sampling with Poulsbo Marine Science Center, Poulsbo, WA
July 2003 Natural Resources Technology Class, West Sound Technical Institute, Bremerton, WA

SOCIETIES

May 2010 – Present New York Academy of Science (NYAS)
Feb 2010 – Present Association for Women in Science (AWIS)
Sept 2007 – May 2008 Peer Reviewer, MarSci (journal for undergraduate research in the marine and aquatic sciences)
2007 – Present International Society for the Study of Harmful Algae (ISSHA)
Jan 2006 – May 2008 Southeastern Estuarine Research Society (SEERS)
Sept 2004 – Apr 2005 American Chemical Society (ACS)
Aug 2004 – May 2008 Member (Research Coordinator May 2005 – May 2007), Students Engaged in Aquatic Science (SEAS), previously Marine and Aquatic Research Experience (MARE)

CERTIFICATIONS

2010 Responsible Conduct of Research Training (RCR)
2005, 2007 Hazardous Waste Certification
2005 Radiation Safety Certification
2004, 2008 OSHA Lab Safety Certification
2003 PADI Open Water SCUBA Certification