

Fabian Camillis Batista

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EDUCATION

M.S. Marine & Atmospheric Science, *In Progress*, Cumulative GPA 3.4/4.0
School of Marine and Atmospheric Sciences, Stony Brook Univ., Stony Brook, NY

B.S. Chemistry Awarded May 2004
Humboldt State University, Arcata, CA

PROFESSIONAL EXPERIENCE

Research Assistant II 06/2004 – 08/2006
National Ocean Sciences Accelerator Mass Spectrometry Facility (NOSAMS)
Woods Hole Oceanographic Institution, Woods Hole, MA
Supervisor: Dr. Ann P. McNichol, Staff Chemist
Duties: Prepared client samples for radiocarbon analyses by AMS. Solely responsible for operating automated high vacuum lines for isolation and purification of CO₂ from combusted samples and producing amorphous graphite. Pressed graphite targets from carbon based samples for analysis on the AMS.

Water Laboratory Technician 02/2001 – 05/2001
Redwood Sciences Laboratory, USDA Forest Service, Arcata, CA
Supervisor: Rand Eads
Duties: Filtered water samples taken from creeks with continuous turbidity-threshold monitoring programs. Wet and dry suspended sediment weight contained in water samples from monitored sites were used to assess progress of environmental restoration efforts and watershed health.

TEACHING EXPERIENCE

Teaching Assistant Fall 2006, Spring 2007
Chemistry Dept., Stony Brook University, Stony Brook, NY
Supervisor: Dr. Mohammed Ahktar
Duties: Responsible for supervising two undergraduate general chemistry laboratory sections and reviewing laboratory procedures prior to commencement.

General Chemistry Supplemental Instructor Fall 2003
HHMI/AMP Teaching Program, Humboldt State University, Arcata, CA
Supervisor: Dr. Richard Paselk
Duties: Lead discussions and helped general chemistry undergraduates with problem sets and studying for exams.

Tutor Fall 2003, Spring 2004
The Learning Center, Humboldt State University, Arcata, CA
Duties: One-on-one tutoring with students taking mathematics, chemistry or physics courses.

Instructional Aide II

Fall 2003

CalSOAP, College of the Redwoods, Eureka, CA

Duties: Responsible for attending a high school algebra and chemistry course, tutoring students from these and other subjects to develop good homework habits. General assistance with problem sets.

Tutor

Fall 2003, Spring 2004

Precollegiate Academic Development Program, Humboldt State Univ., Arcata, CA

Duties: Responsible for assisting students with homework in science and mathematics courses in after school tutoring sessions.

RESEARCH & INTERNSHIPS

Research Assistantship

Fall 2006 – present

School of Marine and Atmospheric Sciences, Stony Brook Univ., Stony Brook, NY

Advisors: Dr. Cindy Lee, Dr. J. Kirk Cochran

Project: Developing laboratory experiments to evaluate mechanisms for observed distribution coefficients of particle reactive nuclides on particulate organic matter components.

Minority Summer Fellowship

Summer 2003

Geology & Geophysics Dept., Woods Hole Oceanographic Inst., Woods Hole, MA

Advisor: Dr. Ann P. McNichol

Project: Evaluated the effect of acid pretreatment methods on the radiocarbon and stable isotope results of sedimentary organic matter.

Multicultural students At Sea Together (MAST) Internship

Summer 2002

Marine and Environmental Science Dept., Hampton University, Hampton, VA

Advisor: Dr. Benjamin Cuker

Project: 21-day cruise on Chesapeake Bay to develop sailing skills and collect hydrographic data in transect along the thalweg. This is part of an annual internship for students of environmental and marine science from underrepresented backgrounds. This internship is funded by the PEW Foundation.

Minority Undergraduate Scholarship & Training (MUST) Internship

Summer 2001

Dept. of Ocean, Earth and Atmospheric Sciences, Old Dominion Univ., Norfolk, VA

Advisors: Dr. K. Johannesson, Dr. Greg Cutter

Project: Surveyed the total arsenic concentration and speciation (III or V), dissolved phosphate, and pH in surface waters of the Great Dismal Swamp National Wildlife Refuge, Suffolk, VA. This internship is funded by NSF-REU program.

Salmon Restoration Internship

Summer 2000

California Conservation Corps, CA Dept. of Fish & Game, Fortuna, CA

Supervisor: Michelle Rose

Project: Constructed in-stream structures to enhance stream diversity and complexity for increased quality of salmonid habitat. This work is part of on-going efforts to improve and maintain spawning and juvenile habitat for threatened or endangered fish species.

PUBLICATIONS

Fabres, J., Tesi, T., **Batista, F.**, Lee, C., Calafat, A., Palanques, A., Meserocchi, S. Seasonal and event controlled export of fresh organic matter from the shelf towards the Gulf of Lions continental slope. *Continental Shelf Research*, submitted.

Batista, F., McNichol, A. P., Gerlach, D. S. The effect of different acid treatments on the radiocarbon age of sedimentary organic matter. *Eos Trans. AGU*, 84(52), Ocean Sci. Meet. Suppl., Abstract OS41A-09, 2003. Poster presentation.

Batista, F., Cutter, G. A., Cutter, L. S., Johannesson, K. H. Arsenic concentrations and speciation in blackwaters of the great dismal swamp, southeastern Virginia, USA. *Eos Trans. AGU*, 82(47), Fall Meet. Suppl., Abstract ED42A-0172, 2001. Poster presentation.

PRESENTATIONS

Batista, F., McNichol, A.P., Gerlach, D.S. The Effect of Different Acid Treatments on the Radiocarbon Age of Sedimentary Organic Matter. Oral Presentation, WHOI Geology and Geophysics Paleo-lunch seminar, August 2003.

Batista, F. Radiocarbon dating: techniques and considerations and the effect of acid pretreatment on carbon isotope ratios in marine sedimentary organic matter. Chemistry Seminar Series, Humboldt State University, October 2003.

LABORATORY TECHNIQUES

- Proficient at HPLC analyses of amino acids and pigments.
- Preparation of organic and inorganic samples for carbon based radiometric dating.
- Proficient at isolation and purification of carbon dioxide in high vacuum systems.
- Proficient with elemental analysis of natural waters using Flame Atomic Absorption spectroscopy.
- Proficient at using UV-VIS spectroscopy for a variety of organic and inorganic analytes and determining kinetics processes.
- Familiar with GC/GC-MS and NMR techniques.

FIELD EXPERIENCE

Coastal zone sampling

- **Jamaica Bay, NY** (8 hours) June 2007
Sampled submarine groundwater discharge and cored coastal sediments in the tidal zone.

Cruises

- **R/V Oceanus** Northwest Atlantic (8 days) June 2006
Repeat hydrographic, coring and in-situ pumping cruise.
- **R/V Endeavor** Northwest Atlantic (7 days) June 2005
Repeat hydrographic, coring and in-situ pumping cruise.
- **R/V Coral Sea** Humboldt Bay (1 day) February 2004
Field sampling assignments associated with physical oceanography course.
- **R/V Coral Sea** Northeast Pacific (1 day) April 2004
Field sampling assignments associated with physical oceanography course.
- **R/V Chesapeake** Chesapeake Bay (21 days) June 2002
Hydrographic transect associated with sailing and marine science internship.

Freshwater sampling

- **Great Dismal Swamp NWR, Virginia** (8 hours) June 2001
Sampled swamp waters with a peristaltic pump for arsenic cycling project.

VOLUNTEER ACTIVITIES

- Senator, Graduate Student Organization Fall 2007, Spring 2008
School of Marine and Atmospheric Sciences, Stony Brook Univ., Stony Brook, NY
- Timekeeper, National Ocean Science Bowl April 2007
Stony Brook University, Stony Brook, NY
- Timekeeper, Bay Scallop Bowl, NY Regional Ocean Science Bowl February 2007
Stony Brook University, Stony Brook, NY
- Science Judge, Blue Lobster Bowl, MA Regional Ocean Science Bowl March 2006
Massachusetts Institute of Technology, Cambridge, MA
- Open House Tour Guide, NOSAMS Facility June 2005
Woods Hole Oceanographic Institution, Woods Hole, MA

REFERENCES

Dr. Cindy Lee, Professor
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, NY
cindylee@notes.cc.sunysb.edu

Dr. J. Kirk Cochran, Professor
School of Marine and Atmospheric Sciences
Stony Brook University, Stony Brook, NY
kcochran@notes.cc.sunysb.edu

Dr. Ann P. McNichol, Senior Researcher/Staff Chemist
NOSAMS, Woods Hole Oceanographic Institution
Woods Hole, MA
amcnichol@whoi.edu