

Internships & Careers:
Ecology, Evolution, Behavior,
Conservation Biology, Eenvt. Science etc.

OUTLINE

- I. UMBC Researchers – esp Biology and Geography
- II. Summer Internships – Local
- III. Summer Internships – National esp. NSF REUs
- IV. Summer Courses – UMBC, Costa Rica, Field Stations
- VI. Specific Projects – Dr. Lohr, Dr. Studds, Dr. Omland
- V. Study Abroad – Katherine Heird (Costa Rica 2014 ?2015)

Office of International Programs

Internships & Careers: Ecology, Evolution, Behavior, Conservation Biology etc.

I. UMBC Researchers: Biology

Mendelson - sexual selection in fishes

Lohr - bird song and conservation biology

Omland - female bird song & conservation (esp. orioles)

Leips - fruit fly evolution & ecology

Cronin - color & vision in marine invertebrates

Burns - evolution of sex in arachnids (harvestmen)



UMBC Researchers: Geography (GES)

- Studds - migratory bird ecology & behavior
- Baker - forest ecology
- Swann - stream ecology
- Ellis - human dominated landscape ecology
- Holland - environmental policy (e.g. Costa Rica)
- Hawn - ecology of movement, urban arthropods
- etc. etc.

II. LOCAL INTERNSHIPS (MD & DC)

SMITHSONIAN

- Smithsonian Environmental Research Center
(“SERC” just south of Annapolis)
- Nation Museum of Natural History
(systematics of birds, insects, fish, dinosaurs, etc.)
- National Zoo
(including Migratory Bird Center & Conservation Genetics Lab)
- Smithsonian Conservation Biology Institute
(Front Royal, VA)

(also conservation organizations etc. DC: National Wildlife Federation, Conservation International, Audubon, EPA, Congress...)

II. LOCAL INTERNSHIPS (MD & DC)

US Department of Agriculture (Beltsville “BARC”)

Patuxent Wildlife Research Refuge (Laurel)

Maryland Zoo (Baltimore)

National Aquarium (Inner Harbor)

Institute Marine & Environmental Technology

(IMET, Inner Harbor, aquaculture, marine microbiology)

Local Nature Centers (every county)

Howard: Robinson Nature Ctr, Howard Co. Conservancy

Baltimore: Marshy Point Nature Center

Annapolis: Chesapeake Bay Foundation



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III. NATIONAL INTERNSHIPS



National Science Foundation
WHERE DISCOVERIES BEGIN

REU SITES (Research
Experience for Undergraduates)

http://www.nsf.gov/crssprgm/reu/list_result.jsp?unitid=5047

E.G. RAPTOR RESEARCH CENTER, Boise, Idaho

Research Topics: Raptor Biology, Ecology, Behavior, Conservation Biology, Wildlife Management, Ornithology, Sensory Ecology, Population Biology, Demography, Molecular Ecology – applications due Feb. 19

(REU SITES ARE PROBABLY QUITE COMPETITIVE, BUT IF YOU HAVE DECENT GRADES, HAVE CLEAR INTERESTS IN THAT AREA, IT IS EASY TO APPLY FOR 3-5)

http://www.nsf.gov/crssprgm/reu/reu_search.jsp

III. NATIONAL INTERNSHIPS FIELD JOBS

E.G. TEXAS A&M WILDLIFE JOBS

Bird Field Jobs – Ornithology Exchange

Iowa State – Natural Resource Jobs

<https://www.nrem.iastate.edu/employment/>

Likely other sites for marine biology, forestry, etc.

IV. Summer Courses – UMBC

BIOLOGY

- Biology 142 – Intro Ecology & Evolution
- Biology 461 – Population Genetics (Dr. Tracy Smith)

GEOGRAPHY

- GES ??



IV. Summer Courses – Field Stations

ORGANIZATION OF BIOLOGICAL FIELD STATIONS

<http://www.obfs.org> for example:

Virginia: Mountain Lake Biological Station

<http://mlbs.org/summercourses>

University of New Hampshire, Shoals Marine Laboratory

http://www.sml.cornell.edu/sml_students_creditcourses.html

Colorado: Rocky Mountain Biological Laboratory (combo course/research)

http://www.rmbf.org/file_uploads/Students/2014.pdf

Costa Rica: Organization for Tropical Studies, e.g., La Selva Rainforest Station

http://www.ots.ac.cr/index.php?option=com_content&task=view&id=162&Itemid=348

Specific Intern Opportunity: Upstate New York. Huyck Preserve
(beautiful field site, did my PhD there, UMBC intern 2010)

<http://www.huyckpreserve.org/odum-internship.html>



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INTERNATIONAL RESEARCH EXPERIENCE FOR STUDENTS - DETAILS:

WHEN? *Summer 2019, Summer 2020, Summer 2021*

WHO? Anyone interested in ecology, conservation & env. science

WHAT? Exciting fieldwork, early mornings, bugs, radio tracking birds

ALSO? Amazing forests, snorkeling in coral reefs, Bahamian culture

CLASS? Summer after sophomore yr. best, freshmen & juniors too*

APPLICATIONS? Due Feb. 20, 2020. (Thursday 5PM)

*****EMAIL APPLICATIONS TO: iresbahamas@umbc.edu**



Bahama Oriole Project



NOTE – students will have travel expenses covered and be paid a \$4,000 stipend.