Dylan W. Scott

EDUCATION

The Graduate Center at CUNY, Ph.D. in Biology (EEB) New York, New York
Expected 2017, CUNY Science Scholarship
Advisor: Dr. David Lohman
Clark University, M.A. in Biology, 2012 Worcester, Massachusetts
The role of the 3' UTR in altering mRNA stability of nitrogen assimilating genes in the marine diatom *Thalassiosira pseudonana*.
Advisor: Dr. Deborah Robertson
Clark University, B.A. in Environmental Science (Conservation Biology), 2011, *cum laude*
Worcester, Massachusetts

SELECTED RESEARCH EXPERIENCE

Masters and undergraduate student, Department of Biology, Clark University.
Advisor: Deb Robertson.
The role of the 3' UTR in altering mRNA stability of nitrogen assimilating genes in the marine diatom *Thalassiosira pseudonana*.

Research Assistant, Clark University. Assisted in setting up diatom cultures, miscellaneous lab duties, and construction of phylogenetic trees for one semester.

LABORATORY EXPERIENCE

Trained in the use of microscope, multiple centrifuges, pH meter, autoclave, spectrophotometer, MacVector and Codon Code Aligner, and diatom transformation (particle bombardment). Experienced in QT-RT PCR, standard PCR, Sanger sequencing, gel electrophoresis and extraction, plasmid construction, gene specific primer construction, bacteria transformation, plasmid isolation (mini and midi preparation), RNA extraction, cDNA synthesis, DNA extraction, and DNA precipitation and resuspension.

FIELD WORK

Negros Occidental & Palawan, Philippines, May 2013
Quantifying the depth of edge influence of fragmented tropical forests

SELECTED COURSEWORK

Graduate:
Evolution, Population/Ecological Genomics, Systematics, Community Ecology, Animal Behavior

Undergraduate:
Biology Research Seminar (in lieu of Biology 101) and Introductory Biology, Introductory Chemistry (two semesters), Pollutants in Human Environment, Sustainability Science, Environmental Politics, Earth Systems Science, Introduction to Hydrology, Evolution, Ecology, Forest Ecology, Ecology of Infectious Disease, Population Genetics, Microbiology, Marine Biology, Plant Diversity Marine Science, Topics in Marine Biology, Animal Behavior, and three semesters of Directed Research.

GRANTS, FELLOWSHIPS AND AWARDS

Summer 2010 Bickman Fellowship to conduct undergraduate research at Clark University.

SELECTED WORK EXPERIENCE

2013 - Teaching Assistant, Department of Biology, City College of New York.

2012 Teaching Assistant, Department of Biology, Clark University.

SELECTED POSTERS AND PRESENTATIONS

Talks:

Quantifying the depth of edge influence in fragmented Southeast Asian rainforests. **University of the Philippines Diliman; Palawan State University**, May 2013.

Examining the role of the 3'–UTR in altering mRNA stability of the nitrogen assimilatory enzyme nitrate reductase in the marine diatom *Thalassiosira pseudonana***. Clark University. Biology Department Seminar/Master's Defense**, May 2012.

The role of the 3' UTR in altering mRNA stability of nitrogen assimilating genes in the marine diatom *Thalassiosira pseudonana*. **Northeast Algal Society 51st Annual Symposium**, April 2012.

The role of the 3' UTR in altering mRNA stability of nitrogen assimilating genes in the marine diatom *Thalassiosira pseudonana*. Clark University. **Graduate School Conference**, April 2012.

Poster Presentations:

Advisor and chief collaborator. Examining the Role of the 3' Untranslated Region in Post Transcriptional Regulation of Nitrite Reductase in the Marine Diatom *Thalassiosira pseudonana*. **Academic Spree Day, Clark University**, April 2012.

Scott DW, Robertson DL. Transformation of the marine diatom *Thalassiosira pseudonana*. **Academic Spree Day, Clark University**. April, 2011.

Scott DW, Aryal R, Robertson DL. Construction of an eGFP reporter plasmid for monitoring in vivo transcription in the marine diatom *Thalassiosira pseudonana*. **Fall Fest, Clark University**. November, 2010.

SELECTED COMMITTEES

2013 - Student Representative of the EEB sub-program committee