

Curriculum Vitae

Andrew J. Rodriguez

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Education

Master of Science (MS) Plant Pathology, 2011

Concentrations Mycology and Molecular Genetics
Dept. of Plant Pathology / Crop Physiology
Louisiana State University
Baton Rouge, LA

Bachelors of Science (BS) ,2009

Biological Sciences
Louisiana State University
Baton Rouge, LA

Professional Experience

Lecturer I, College of Science Biology Department Aug 2018-Present

Biology 1404 Biosciences I Lecture / Biology 1404 Biosciences I lab / Biology 1061 Introductory Microbiology lab /
Biology 3722 Microbiology Lab
University of Texas at San Antonio
San Antonio, TX

Adjunct Professor in Biology, Department of Science and Mathematics Aug 2019-Present

Biology 1106 General Biology I Lab/ Biology 2421 Introduction to Microbiology Lecture / Biology 2421 Introduction to
Microbiology Lab / Biology 1308 Life Sciences 1 Lecture / STEM 311 Jag Tracks III / Biology 1306 General Biology I
Lecture
Texas A&M University at San Antonio
San Antonio, TX

Adjunct Professor in Biology, STEM Department Aug 2019-Present

Biol 1020 Gen Biol II lecture (online)/ Biol 1150 Anatomy & Physiology I lab (online)/ Biol 1160 Anatomy & Physiology
II Lecture (online)
Fletcher Technical Community College
1407 LA-311, Schriever, LA 70395

Faculty Instructor in Biology, Department of Science and Mathematics Aug 2013 – June 2018

Biology 141 Introductory Biology (sci majors) / Biology 143 Introductory Laboratory / Biology 210 Microbiology
(sci majors) / Biology 212 Microbiology Laboratory / Biology 251 Anatomy & Physiology I Lecture / Biology 253
Anatomy & Physiology I Lab / Biology 252 Anatomy & Physiology II Lecture / Biology 254 Anatomy & Physiology
II Lab
Delgado Community College, City Park Campus
New Orleans, LA 70119

Adjunct Professor, Department of Science and Math / Horticulture Department Aug 2013-May 2015

Horticulture 110 Soil Science / Horticulture 200 Applied Botany / Horticulture 214 Pest Management
Delgado Community College, City Park Campus
New Orleans, LA 70119

Private Tutor, Jan 2013 – Present

High school Algebra, Biology, and Chemistry
New Orleans, LA

Research Associate, Jan 2012 – Dec 2012

Conservation Genetics Laboratory
 School of Renewable Natural Resources
 Louisiana State University
 Baton Rouge, LA 70803

Research Assistant, Jan 2012 – Dec 2012

Coastal Waters Consortium
 Baton Rouge, LA 70803

Research Graduate Assistant, Jan 2010 – Dec 2011

Mycology Laboratory, Dr. M. Catherine Aime Lab
 Department of Plant Pathology / Crop Physiology,
 Louisiana State University,
 Baton Rouge, LA 70803

Undergraduate Research, Jan 2009 – Dec 2009

Mycology Laboratory, Dr. M. Catherine Aime Lab,
 Department of Plant Pathology / Crop Physiology
 Louisiana State University
 Baton Rouge, LA 70803

Presentations

Classroom Lectures, Aug 2013- Present

Presenting new material to students in fields of Biology and Botany
 Department of Science and Mathematics
 Delgado Community College, City Park campus
 New Orleans, LA 70119

Departmental Seminar, Oct 2011

Wheat Blast: Origin, Impact, and Management
 Department of Plant Pathology / Crop Physiology
 Louisiana State University
 Baton Rouge, LA 70803

Skills

- **Teaching Skills:**
 - o Ability to prepare for various Face to Face lectures and laboratories
 - o Certified for Hybrid / Online instruction with extensive knowledge of LMS such as Blackboard and Canvas
 - o Knowledgeable in topics of Microbiology, Anatomy and Physiology, General Biology, Genetics
- **Language Skills:**
 - o Fluent in spoken Spanish
 - o Intermediate – Advanced written Spanish
- **General Skills**
 - o Have helped to plan, conduct, and coordinate biological and physical investigations relating to fish and wildlife for studies regarding to oil spills and LA Wildlife and Fisheries
 - o Help to prepare environmental assessments and impact statements on projects by recommending actions to LA Wildlife and Fisheries dealing with Striped Bass
 - o Helped develop and implement testing protocols for identification of Hybrid Bass and Seaside Sparrow loci

- **Computer Skills:**
 - o Proficient in Microsoft Office and Adobe Creative Suites
 - o Various genomic sequence analysis and alignment programs such as Sequencher, Mega, Se-AL
 - o Proficient in Sequin for preparing and editing sequences for submission to NCBI's GenBank
 - o Proficient in Microscope Camera software for photographing various microorganisms
- **Managerial Skills:**
 - o Perform a variety of activities pertaining to the ecological aspects of wildlife studies by coordinating requirements with State and Federal fish and wildlife agencies (TX and LA Fish and Wildlife)
 - o Acting laboratory manager of lab with 16 people (including graduate students and Post Doctoral fellows)
 - o Immediate Supervisor of undergraduate student workers
 - o Performed training of all Student workers and coordinated equipment usage in laboratory
 - o Ordered materials and equipment for laboratory to perform its research duties
- **Field Skills:**
 - o Proficient in navigating wetland terrain along coast of Gulf of Mexico
 - o Conduct field work and assessments of fish (Striped Bass) and birds (Seaside Sparrows) relating to oil spill in Gulf of Mexico
 - o Proficient in capture, processing, and release of live animal specimens for physical investigations relating to fish, birds and other wildlife studies
 - o Proficient in collecting and identifying various fungal and Bacterial plant pathogens
- **Laboratory skills:**
 - o Proficient in use of microscope to morphologically identify microorganisms
 - o Proficient in troubleshooting PCR conditions and creating new protocols for use
 - o DNA/RNA extractions from various animal tissues (i.e., feathers, fins, skin, liver), bacterial and fungal cultures
 - o The use of recombinant DNA techniques for purposes of cloning bacterial and fungal genomic target sequences
 - o Proficient in Agarose and Polyacrylamide gel electrophoresis.
 - o Proficient in DNA Sequence analysis
 - o Proficient in carrying out all laboratory activities related to the process of Sanger DNA sequencing
 - o Microsatellite Genotyping
 - o Culturing and maintaining various microorganisms (i.e., fungal and bacterial strains) for short and long term Storage

Affiliations/Memberships

- Mycological Society of America,
Member, 2010-Present
- Coastal Waters Consortium,
Researcher, Jan 2012- Dec 2012
- American Phytopath Society - Southern Division
Member, Jan 2010 - present

Service

- Kiwanis Circle K service organization, 2008 – 2009
- Volunteer at Connections for Life, 2005 – 2006
- Vice President of Plant Pathology Graduate Student Association, 2010 – 2011
- Chairman of Fundraising Committee for Plant Pathology Graduate Student Association, 2010 – 2011

Training, Certification, And Awards

- Quality Matters- Applying the QM rubric certification, May 2020
- Teaching and Learning/eProfessor certification, Oct 2018
- Safe Environment Training Program, *2012-present*
- Blood Borne Pathogen, *2013 – 2018*

Research Interests

- Molecular biology
- Wetland research
- Plant Pathology

I am always interested in broadening my research experience by learning new material from prospective projects. I am very team oriented and know how to work well with others. I have learned many scientific techniques within the laboratory and field settings and I am capable of adapting these skills to other areas of research.

Publications

S.S. Taylor, S. Woltmann, A. Rodriguez and W.E. Kelso. 2013. Hybridization of White, Yellow and Striped Bass in the Toledo Bend Reservoir. *Southeastern Naturalist*.12(3):514–522.