

# Christian Marr

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## EDUCATION

**University of Wyoming, Laramie, WY** Summer 2015/Spring 2016

- Non-degree seeking student

**University of South Florida St. Petersburg, FL** Spring 2014

- Non-degree seeking, graduate-level student

**Bachelor of Science** December 2013

**Stetson University, DeLand, FL**

- Major: Biology; focus on Environmental Science and Molecular Biology
- Minor: French

**College of Coastal Georgia, Brunswick, GA** June/July 2013

- Transient student

**Alexander W. Dreyfoos School of the Arts, West Palm Beach, FL** May 2010

- Theatre Major

## RESEARCH/INTERNSHIP EXPERIENCE

**Lab Technician/Mycoremediation Researcher : Mushroom Mountain (Tradd Cotter lab)** Summer 2017-present

- Investigation of fungi species with affinity for plastic and petroleum polymer and other pollutant biodegradation
- Other mycoremediation/mycotech project involvement, including water filtration systems and myco-pesticides
- Facilitation of the Mycoflora 2.0 project involvement; allocating resources and equipment for creation of an in-house Fungarium, specimen submission and preservation, genetics data production, citizen science education and involvement, etc.
- Expansion of culture library; purification of clone cultures of interest; culture substrate transfers; general fungi and microbio lab techniques
- Cultivation of edible and medicinal fungi; farmers markets and customer service and education; foraging certification; workshop facilitation

### **Tampa Bay Mycology Society**

- Founded Summer 2016 along with Arian Farid, mycology grad student at University of South Florida
- Conduct forays, workshops, cultivation projects, meetings, etc. throughout Tampa Bay area
- Collaboration with Fungi Academy in San Marcos, Guatemala to spread public education, political awareness, and local conservation

**Herbarium Assistant: University of South Florida Herbarium (Dr. Alan Franck lab)** Summer 2016

- Expansion and reclassification of herbarium fungi, lichen, and bryophyte collections; transcription of records to electronic database

**Internship: Maui Malama Family Farm, Hawaii and University of Wyoming** Winter 2015/Spring 2016

- Organic coastal biodynamic cultivation techniques of food, medicinal, and native crops and fungi and earth ship sustainable structure construction
- Soil remediation and microrestoration, aquaponics/hydroponics, greenhouse production and management, bee keeping, seed production, permaculture, farm systems design, etc.

**AmeriCorps Member: Wyoming Conservation Corps, University of Wyoming** Summer 2015

- Collaboration with state and national parks for various projects: Trail building/maintenance, campground and habitat restoration, ecological and historical education, chainsawing (removal of beetle kills trees and environmentally disturbing species), fencing (wild-life friendly, elk boundary, buck and rail, etc), mapping, surveying
- Wilderness leadership and park management skills development

**Science Educator: Museum of Science and Industry, Florida** Fall 2014/Spring 2015

- Educator for Science Technology Engineering Arts Math (STEAM) initiative

- Developer/participant in educational programs/performances
  - Operation of museum exhibits and interactive experiences for guests
- Apprenticeship: Willow's Herbal Delights (Willow Lamonte), Florida Fall 2014**
- Cultivation of rare and environmentally/medically beneficial plants
  - Study of plant guilds, organic methods, and rehabilitation techniques; education and outreach
- Lab Technician: University of South Florida College of Marine Science (Dr. Mya Breitbart lab), Florida Spring 2014**
- Investigated plant pathogens (*Begomovirus*) using insect vectors
  - Performed cloning and polymerase chain reaction (PCR) assays
  - "Vector-enabled metagenomic (VEM) surveys using whiteflies (Aleyrodidae) reveal novel begomovirus species in the New and Old Worlds" published in *Viruses* journal
  - "Begomovirus-Associated Satellite DNA Diversity Captured Through Vector-Enabled Metagenomic (VEM) Surveys Using Whiteflies (Aleyrodidae)" published in *Viruses* journal
- Internship: Volusia County Environmental Management, Florida Fall 2013**
- Investigated native plant populations and participated in restoration planning and efforts in coastal and upland habitats
  - Educational outreach; instructional materials development; funding application/allocation
- Internship: Little Saint Simons Island National Preserve, Georgia Summer 2013**
- Organic Coastal Garden planning/management
  - Naturalist Education Program involvement
- Undergraduate Research: Stetson University (Dr. Alicia Slater lab), Florida Spring 2012 - Fall 2013**
- Investigated effects of climatic oscillations on population genetic structure of the stonefly (*Hesperoperla Pacifica*)
  - Performed DNA extractions, restriction enzyme digest, PCR assays, DNA primer design
- Internship: BioTools Company, Florida Summer 2012**
- Elucidated protein structures using vibrational spectroscopy

### CERTIFICATIONS/TRAINING

Wild Mushroom Safety Certified June 2017  
 Red Cross Wilderness First Aid certified May 2015  
 USF Biosafety Principles and Practices Training February 2014  
 USF Environmental Health and Safety Lab and Research Training January 2014  
 Habitat Conservation Plan training (Volusia County) October 2013  
 American Heart Association CPR/AED and First Aid certified February 2013  
 Institutional Animal Care and Use Committee training and certification March 2012  
 PADI Open Water Diver and SDI Nitrox certified Summer 2009/2014

### AWARDS/ACCOMPLISHMENTS

- Segal Education Award, AmeriCorps 2015
- Faculty Scholarship at Stetson University 2010-2013
- Florida Medallion Scholars Award 2010-2013
- Palm Beach Community Trust Scholarship 2010-2013

### OTHER WORK EXPERIENCE

- Child Care and Ski and Ride School Assistant at Winter Park Resort (Winter Park, Co) – 2017-2018
- Tutor, independently and contracted through Chegg and Varsity Tutors – 2016-present
- Juicer/Server at Juice Bar (Memphis, Tn) - 2017
- Juicer/Server at Swami Juice (Tampa, Fl) – 2014-2016
- Barista at Datz Delicatessen (Tampa, Fl) – 2014
- Resident Assistant for Stetson University Residential Life – 2012-2013
- Stetson University Campus Rep for Shirts for Greeks – 2012-2013
- Waitress/Hostess at *Rendez-Vous* (DeLand, Fl), a fine-dining French cuisine restaurant – 2011-2012

