

Corey Nelson
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(218) 251-0054

Education

Arizona State University, Tempe, AZ Aug 2014 – Present
University of Minnesota, Minneapolis, MN Sep 2008 – May 2011
Bachelor of Science Degree - Biology
Concordia College, Moorhead, MN Aug 2007 – Apr 2008

Work Experience

School of Life Sciences, Arizona State University June 2014 – Present

- **The Lab of Ferran Garcia-Pichel, Microbial Ecology Research Technician** June 2014 – Present

Responsibilities included:

- Preparing microbiological growth media and maintaining cultural collection of algae
- Assisting in preparation and conducting of field sampling campaigns in the Sonoran and Chihuahuan Deserts
- Isolating and characterizing soil algae and bacteria through use of microscopy and DNA analysis
- Scaling up of algal cultures and monitoring of experiments in regeneration of impacted soils in greenhouse and natural setting
- Conducting analytical procedures in soil science (basic nutrients, chemical and biochemical determinations)

Contact Number: (480) 727-7762 Email: ferran@asu.edu (Dr. Ferran Garcia-Pichel)

Lab Support, OnAssignment Dec 2013 – June 2014

- **Teva Pharmaceuticals, Contract QC Technician** Mar 2013 – June 2014

Responsibilities included:

- Maintained cGMP (Good Manufacturing Principles) principles and utilize applicable SOP's while sampling of Raw Materials for QC analysis
- Perform analytical testing (e.g. dimensional, visual) on packaging components and labeling material as outlines in RMS and test methods
- Data Entry and Lab Maintenance

Contact Number: (602) 222-3558 Email: Emma.Beatty@labsupport.com (Emma Beatty)

- **United Dairymen of Arizona, Contract Microbiology Lab Technician** Dec 2013 – Jan 2013

Responsibilities included:

- Using ANSR pathogen detection to test dairy samples for Salmonella and Listeria
- Bacteriological plating of dairy samples to check for microbial growth

- Determining Total Suspended Solids (TSS) and Chemical Oxygen Demand (COD) for plant wastewater
 - Data Entry and Lab Maintenance
- Contact Number: (602) 222-3558 Email: Emma.Beatty@labsupport.com (Emma Beatty)

Plant Biology Department, University of Minnesota

Sep 2008 – Oct 2013

- **The Lab of Robert Blanchette, Forest Pathology Department
Research Technician**

July 2013 – Oct 2013

Responsibilities included:

- Assisting in creation of a PCR diagnostic tool to screen *Pinus strobus* seedlings for resistance to White Pine Blister Rust disease caused by the fungus, *Cronartium ribicola*
 - Assisting in DNA Analysis in Deteriorations Studies of Historical and Archaeological Wood samples from Egypt, Turkey, and the Southwestern U.S.
 - Maintenance of Sample Cultures collected from Historical and Archaeological sites
- Contact Number: (612) 625-5736 Email: robertb@umn.edu (Dr. Robert Blanchette)

- **The Lab of David McLaughlin, Mycology Department
Research Assistant**

July 2010 – Oct 2013

Responsibilities included:

- Assist in Acquiring Ultrastructural Data for Organisms Being Studied in a Multi-university Project on Fungal Evolution
 - Preparation and Cryopreservation of Various Plant Pathogen and Fungal Organisms
 - Data Entry in the Mycological Collection Database
 - Assistance in the Research Projects Involving *Dacryopinax sp.* and *Coemansia reversa* for AFTOL project (Assembling the Fungal Tree of Life)
 - Maintenance and Culturing of Fungal cultures for International Storage and Research
 - Preparing Living Organisms for Ultrastructural Examination in the Imaging Center
 - Assisting with Processing Electron Micrographs for Data Acquisition
 - Lab maintenance and Ordering Lab Supplies
- Contact Number: (612) 625-5736 E-mail: davem@umn.edu (Dr. David McLaughlin)

- **The Lab of Georgiana May, Ecology Department
Lab Technician**

Feb 2012 – Jan 2013

Responsibilities included:

- Assistance in Papua New Guinea Endophyte Project on Endophyte Distribution
 - Culturing and Maintenance of Several Thousand Endophyte Samples
 - Extracting and Preparing Genomic DNA from Harvested Endophytes
 - Amplifying Endophyte DNA through PCR using ITS1f and LR3 Primers for Sequencing
 - Grouping Sequenced Endophytes by OTU's using Geneious and MOTHUR Bioinformatics Programs
- Contact Number: (612) 624-3461 E-mail: gweiblen@umn.edu (Dr. George Weiblen)

- **The Lab of Carolyn Silflow, Plant Biology Department
Lab Assistant**

Sep 2008 – May 2010