

## **Student Research Projects**

Rhawn Denniston  
Cornell College

### **2019**

- Linking Observational Records of Rainfall to Cave Flooding Events, cave KNI-51, Australian Tropics – Paige Kluge
- Testing the Impact of Temperature and Humidity Variations on Isotopes in Speleothems from Tropical Australian Caves – Chloe Martin
- HONORS THESIS: Testing the Influence of Major Volcanic Eruptions on the Indo-Australian Summer Monsoon using the Last Millennium Ensemble (with Dr. Caroline Ummenhofer, Woods Hole Oceanographic Institution)– Cali Pflieger,
- Environmental Signals in Buraca Gloriosa cave, central Portugal – Jace Bricker
- Environmental Signals in Companheira and Ibn Amar caves, southern Portugal – Gabrielle Hiatt

### **2018**

- HONORS THESIS: Boron Isotope-Based Shallow Ocean pH Estimates from Miocene and Pliocene Caribbean Corals – Kira Fish
- Isotopic Signals of Volcanic Eruptions in the Australian Summer Monsoon as Recorded in Tropical Australian Stalagmites – Savhana Chrisco
- Environmental Monitoring of Three Tropical Western Australia Caves: Implications for Speleothem Paleoclimate Reconstructions – Cole Zrinsky
- Calibrating the Links between Rainfall and Thresholds for Cave Flooding in Three Tropical Western Australia Caves – Matthew Stivland
- The Response of the Indo-Australian Summer Monsoon to the AD 1257 Mount Salamas Eruption as Indicated by the Last Millennium Ensemble (with Dr. Caroline Ummenhofer, Woods Hole Oceanographic Institution)– Cali Pflieger,
- Paleofire Reconstructions from Tropical Australian Stalagmites (with Dr. Elena Argiriadis, Ca' Foscari University, Venice)– Anhia Nguyen
- Reconstructing Late Holocene Cave Flooding Events using Mud Layers in KNI-51 Stalagmites – Paige Kluge
- Reconstructing Late Holocene Cave Flooding Events using Mud Layers in KNI-51 Stalagmites – Chloe Martin

### **2017**

- Testing the Influence of Major Volcanic Eruptions on the Indo-Australian Summer Monsoon using Sub-Annually-Resolved Stable Isotope Analyses of Tropical Australia Stalagmites – Cole Zrinsky
- Stable Isotopic Analysis of Aragonite Stalagmites from Central Nepal – Daniel Klever
- Trace Elements in Late Holocene Aragonite Stalagmites from the Australian Tropics – Stephanie Voller
- Trace Elements in Late Holocene Aragonite Stalagmites from the Australian Tropics – Cali Pflieger
- Investigating Rainwater, Dripwater, and Australian Cave Environments – Danielle Polson
- Investigating Rainwater, Dripwater, and Australian Cave Environments – Shay Rule

### **2016**

- Assessing Southern Hemisphere Behavior of the Indo-Pacific Tropical Rain Belt during the Late Holocene through Stable Isotope and U-Th Analyses of a Tropical Australia Stalagmite – Elena Skosey-LaLonde

- Maintaining a Cave Environmental Monitoring Program, Western Australia – James Garrett

## 2015

- Design and Installation of Cave Environmental Monitoring Program, Western Australia – James Garrett
- Paleoclimate Stalagmite Records from Cape Range, Western Australia Spanning Portions of the Last Five Glacial Cycles - James Garrett
- HONORS THESIS: Monthly-Resolved Paleoceanographic Variability Reconstructed from Pristine Miocene Corals from the Dominican Republic - Thomas Weiss
- HONORS THESIS: Stable Isotopic and Petrographic Analysis of Bounding Surfaces in Nevada Stalagmites - Chris Felt

## 2014

- Millennial-Scale Climate Variability of Marine Isotope Stages 2-5b from Blanchard Springs Caverns, northern Arkansas - Vreni Reidel
- Paleomonsoon Implications of Carbon Isotopic Variability in Late Holocene Aragonite Stalagmites from the Central Australian Tropics - Stephanie Lucker

## 2013

- Stalagmite Records of the Penultimate Glacial Cycle from Western Iberia - Setsen Altan-Ochir
- HONORS THESIS: Ultra-High Resolution Isotopic Records of Late Holocene Indo-Australian Summer Monsoon Dynamics - Kristian Passaro

## 2012

- Sea Level Variability over the Last Glacial Cycle (literature study) - Daniel Pawlak
- Tropical Sea Surface Temperature Variability over the Last Glacial Cycle (literature study) - David Allen
- HONORS THESIS: Coupled Stable Isotopes and Mud Layer Analysis of Aragonite Stalagmites from Tropical Western Australia - Angelique Gonzales
- HONORS THESIS: Climate of the Last Glacial Cycle from Portugal Reconstructed using Stalagmites from Glory Hole Cave - Amanda Houts
- HONORS THESIS: The Last Glacial Maximum through Middle Holocene Climate Record from Stalagmites from Cape Range, Western Australia - Ni An

## 2011

- Modeling Oxygen Isotopic Ratios in Recent Stalagmite Aragonite from Northern Australia - Andrew Roers
- Constraining Initial Thorium Ratios in Northern Australia Stalagmites - Julian Peota
- Towards a Unified Paleoclimate Reconstruction from Portuguese Stalagmites - Lucas Anderson
- Tropical Cyclones Reconstructions using Mud Layers in a 300-900 Yr Old Tropical Western Australia Stalagmite - Mike Barthelmes
- Tropical Cyclones Reconstructions using Mud Layers in a 300-600 Yr Old Tropical Western Australia Stalagmite - Dan Cleary

**2010**

- Comparison of Middle Holocene Oxygen Isotopic Time Series from Australian Stalagmites - Elizabeth Greaves
- High-Precision U/Th Dates of GH Cave Stalagmites, Portugal - Megan Denner
- Sub-Decadal Climate Reconstructions from Late Holocene Aragonite Stalagmites from the Ning Bing Range, Kimberley, Western Australia - Nick Campbell

**2009**

- Preliminary Dates on a Suite of Stalagmites from the Ning Bing Range, Kimberley, Western Australia - Bipul Timilsina

**2008**

- Refining a U-Th Chronology for a Western Australia Stalagmite Paleoclimate Series - Emily Krauter
- Trace Element Characteristics of a Kimberley Australia Stalagmite - Abby Michaelson
- Investigating Late Pleistocene Australian Monsoon Variability - Rebecca Ellerbroek

**2006**

- Growth Histories of Stalagmites from Western Australia: Implications for Reconstructing the Australian Monsoon over the Last Glacial Cycle - Kristyn Rodzinyak
- A Comparison of U/Ca and Sr/Ca-Based Sea Surface Temperatures from Caribbean Fossil Corals - Michael Lommler

**2005**

- An Arkansas Stalagmite Penultimate Deglaciation Record: Pt I - Lara Moellers
- An Arkansas Stalagmite Penultimate Deglaciation Record: Pt II - Diana Krogmeier
- Reconstructing Growth Histories of Portuguese Stalagmites: Relationships to Heinrich Events - Charles Trodick
- U/Th Dating of Select Great Basin Stalagmites - Amanda Gibson

**2004**

- Collection, Preparation, and Preliminary Chronology of Stalagmites from Coastal Portugal - Alyssa Borowske
- U-Pb Dating Pristine Neogene Corals from Dominican Republic - Peter Cole
- Construction of Chronologies and Stable Isotopic Trends of Ozark Stalagmites - Brian Hoye

**2003**

- High-Resolution Stable Isotopic Analysis of Sea Surface Temperatures from Neogene Corals from Dominican Republic - Stephanie Penn
- High-Res. Stable Isotopic Analysis of a New Zealand Stalagmite - Alexa Clements

**2002**

- A Late Holocene Speleothem Record from Devils Ice Box Cave, Central Missouri - Michelle DuPree