

## Student Research Projects

Rhawn Denniston  
Cornell College

### 2021

- Stable and Radiogenic Isotope Analysis of Nepalese Stalagmites – Emma Hughes
- Stable and Radiogenic Isotope Analysis of Nepalese Stalagmites – Tommy Foster
- Using Climate Model Simulations to Explore Late Holocene Variability in the Indian Summer Monsoon in Nepal – Carson Wiggins (with Dr. Caroline Ummenhofer, Woods Hole Oceanographic Institution)

### 2020

- Late Holocene Evolution of the Indian Summer Monsoon in Nepal – Carson Wiggins

### 2019

- Linking Observational Records of Rainfall to Cave Flooding Events, cave KNI-51, Australian Tropics – Paige Klug
- HONORS THESIS: 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 Portuguese Caves – Jace Bricker
- Environmental Signals in Portuguese Caves – Gabrielle Hiatt
- Two Centuries of Sub-Annual Resolution Stable Isotopic Variability in a Tropical Australian Stalagmite – Kat Armstrong
- Paleofire Reconstructions from Tropical Australian Stalagmites (with Dr. Elena Argiriadis, Ca' Foscari University, Venice)– Jamie Thompson (Macalester College)

### 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 Klug
- 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