

Claudia L. Banks

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EDUCATION

University of Texas at Austin, TX

Ph.D., Jackson School of Geosciences
Advisor: Brian Horton

Fall 2020 – May 2025

University of Florida, FL

Bachelor of Science, Geology
Advisor: Joseph Meert
Summa Cum Laude (GPA: 3.87/4.00)

Fall 2016 – May 2020

RESEARCH EXPERIENCE

Geology Research Assistant, University of Florida

March 2018 - May 2020

Laser ablation ICP-MS analysis and data reduction on igneous and sedimentary zircon from the Singhbhum Craton

Processed and analyzed zircons in detrital river sediments retrieved from the Singhbhum craton in India

- milled, sieved, decanted sediments using equipment such as the retsch mill, pan sieve, and water table

- separated zircons using heavy liquids (tetrabromoethane)

Petrographic analysis of granitoids from the Singhbhum Craton using Scanning Electron Microscope and petrographic microscope

TEACHING EXPERIENCE

Teaching Assistant; Intro to Geology (GEO303), University of Texas at Austin

Fall 2020

CONFERENCE PRESENTATIONS

Claudia L. Banks, Scott R. Miller, Joseph G. Meert, Paul A. Mueller, Manoj K. Pandit, Anup K. Sinha (2019, September). *Formation of the Singhbhum Craton: Magmatic and Tectonic Setting of Archean Granitoids in the Singhbhum Craton*. Poster session presented at the Annual Convention of the Geological Society of America, AZ

Scott R. Miller, Joseph G. Meert, Paul A. Mueller, Manoj K. Pandit, Anup K. Sinha, Anthony F. Pivarunas, **Claudia L. Banks** (2018, November). *A comprehensive comparison of published ages for major units of the Singhbhum craton including new detrital zircon ages*. Poster session presented at the Annual Convention of the Geological Society of America, IN

PUBLICATIONS

Banks, C., Miller, S., Mueller, P., Meert., Pandit, M., Kamenov, G., Sinha, A., Magmatic and Tectonic Setting of Archean Granitoids in the Southeastern Singhbhum Craton, India: Developing constraints with major and trace element geochemistry and geochronology, *in review for UF Journal of Undergraduate Research*

Miller, S., **Banks, C.**, Mueller, P., Meert., Pandit, M., Kamenov, G., Sinha, A., Refining the 3.5-3.0 Ga evolution of the Singhbhum Craton, Eastern India: Geochronologic and geochemical evolution through U-Pb, Lu-Hf, Sm-Nd, and Pb-Pb isotope characteristics of TTG & granite, *in review for Precambrian Geology*

SHORT COURSES

Seismic Stratigraphy Short Course, University of Florida

October 2019

ExxonMobil Reservoir Characterization Short Course, University of Georgia

October 2019

GEOLOGICAL FIELD EXPERIENCE

Field Topics in Death Valley, University of Florida

March 2020

Addressed processes in southeastern California such as the evolution of non-marine sedimentary basin in a strike-slip/extensional tectonic setting

STEMSEAS Student, Columbia University

July 2019

Ship-based, a 7-day exploratory experiences for undergraduates from diverse backgrounds aboard NSF-funded R/V Atlantis. Run by the Division of Marine and Large Programs, Lamont–Doherty Earth Observatory, Columbia University

Geology Summer Field Camp, University of Florida

May-June 2019

Summer geology field camp in northern New Mexico. Application of field procedures and techniques to the solution of geologic problems and construction of geologic maps

Structural Geology/Tectonics, University of Florida

April 2019

Provided regional-scale development of a collisional mountain belt and how an understanding of how the mesoscopic structures and fabrics fit into the larger scale tectonic development of the Appalachians

Field Geology of Big Bend, University of Florida

March 2019

Provided an overview for regional-scale geological development of Big Bend National Park and the Llano-Austin area

Field Methods, University of Florida

October 2018

Identified and mapped lithologies using micro and macro-scale observations in Appalachian Trail at Pond Mountain in Tennessee using rock descriptions and a Brunton compass

Geoclubs Missouri/Arkansas, University of Florida

August 2018

Identified field examples of Precambrian and Phanerozoic volcanic structures and rocks in St. Francois Mountains and the regional-scale development of the Ozark Plateau

HONORS AND AWARDS

UF Department of Geological Sciences Danker Award Recipient

2020

University Scholars Program, University of Florida

2019-2020

NAGT Field Study Scholarship Recipient

2019

GSA J. David Lowell Field Camp Scholarship Recipient (Declined)

2019

GSA and ExxonMobil Bighorn Basin Field Award Recipient

2019

Bright Futures Florida Academic Scholarship Recipient

2016-2020

Dean's List Recipient, University of Florida

2016-2020

OUTREACH AND SERVICES

Department of Geological Sciences Advisory Board Undergraduate Representative

2019-2020

Developed curricula to prepare students for work in their future careers

Acted as an ambassador for the Department to increase the awareness of the Department's needs, successes, and long-term goals, and move the Department to a secure future

Can You Dig It? Volunteer, Florida Museum of Natural History

March 2018 & March 2019

Taught families about geologic history and equipment used by field geologists such as core drills