Jessica J. Dean, PhD Student

Pittsburgh, Pennsylvania, United States • jjd161@pitt.edu • (440)- 864- 3517

PROFILE

A passionate and dedicated student pursuing a PhD at the University of Pittsburgh in the Department of Geology and Environmental Science. Currently working on research focused on the role of petrogenic organic carbon in the global carbon cycle. Strong skills in scientific communication, attention to detail, and working with peers.

EDUCATION

University of Pittsburgh, Department of Geology and Environmental Science- Doctor of Philosophy, in progress. Advisor: Dr. Evan Ramos- *August 2025-present*

Denison University, Environmental Science- B.S.- *August 2021- May 2025*

GPA: 3.69, Cum laude

Avon High School- *August 2017- May 2021*

GPA: 4.5

PROFESSIONAL EXPERIENCE

Global Sustainability and Product Stewardship Intern- Goodyear Tire and Rubber Company • *May 2024- May 2025*

Assisted both the Global Sustainability and Product Stewardship teams with day-to-day activities, as well as larger projects. Worked with Product Stewardship team to log and monitor new chemicals being used in plants globally, and monitored regulations in each country where plants are present to assure compliance. Assisted Global Sustainability team with quarterly competitor benchmarking, and worked on larger Intersections for Influencers project to generate interest and discourse around sustainability topics with functional groups within the company. Developed skills in time management, communication, Microsoft Office, and research of relevant topics to sustainability.

Field Assistant- Structural Geology and Tectonics Lab- Dr. Chelsea Mackaman-Lofland- Denison University • *December 2023- January 2024*

Assisted on field season in San Juan, Argentina (December 2023-January 2024) to collect data for geochronology and thermochronology analyses, as well as measurements throughout the region for the purpose of creating a cross section. Developed skills in field-note taking and sketching, Brunton measurements, and procuring rock samples.

Undergraduate Researcher, Structural Geology and Tectonics Lab- Dr. Chelsea Mackaman-Lofland- Denison University • *April 2023- January 2024*

Worked in Dr. Chelsea Mackaman-Lofland's Basin Analysis and Tectonics Lab at Denison University on an independent project concerning rates of exhumation in the Crazy Mountains using thermochronological analysis. Developed skills in independent project management, lab procedures, and scientific communication. Main focus was constructing a cross section of Fort Union Formation and Big Timber Stock using field measurements and existing seismic data from the region. Also learned skills in sample preparation for thermochronological analysis for apatite and zircon bearing rocks. Presented research project at Geological Society of America's annual conference in Pittsburgh, 2023.

Peer Mentor, Denison University • *August 2022- May 2023*

Advised and mentored one first-year student on a weekly basis to help them adjust to college life.

Food Recovery Network- President • *August 2022- present*

Co-president of largest student-led movement fighting food waste and working to end hunger in America. Responsibilities include organizing volunteer schedules, managing supplies in dining halls around campus, and arranging transportation of food around the Granville-Newark area.

CONFERENCES

Geological Society of America 2023- Pittsburgh, PA

1. **Dean, J**., Morawski, S., Mackaman-Lofland, C., Constenius, K.N., Thomson, S.N., Waanders, G. (2023) Leveraging structural, seismic, and low-temperature thermochronology datasets to determine the mechanisms and rates of foreland basin exhumation, Crazy Mountains, USA. GSA Annual Meeting, Pittsburgh, PA (poster presentation).
2. Morawski, S., **Dean, J**., Mackaman-Lofland, C., Constenius, K.N., Thomson, S.N., Waanders, G. (2023) Thermal history of the Crazy Mountains in the south-central Montana foreland: Insights from inverse thermal history modeling of apatite (U-Th)/He and fission track data. GSA Annual Meeting, Pittsburgh, PA (poster presentation).

Geological Society of America 2024- Anaheim, CA

3. Lehmann, M., Mackaman-Lofland, C., Hren, M., **Dean, J**., Capaldi, T.N., Odlum, M., Weeks, C., Fosdick, J.C., Bertoa del Llano, M., Ortiz, G. (2024) Comparing stable isotope signals of Cenozoic climate, tectonics, and topography in high vs. low elevation retroarc basins, southern central Andes (~31°S). GSA Annual Meeting, Anaheim, CA (poster presentation).
4. Conway, M., Bowden, H., **Dean, J**., Mackaman-Lofland, C., Capaldi, T.N., Odlum, M., Weeks, C., Ortiz, G. (2024) Preliminary investigation of fold-thrust belt–intraforeland

basement-involved deformation using apatite (U-Th)/He thermochronology data and thermal history modeling: insights from the Argentine Precordillera and Sierras Pampeanas (31–32°S). GSA Annual Meeting, Anaheim, CA (poster presentation).

GRANTS

Anderson Science Program Research Assistantship Grant • Denison University

$500 per week, 10-week program

$500 supply budget

GSA Travel Funds • Lisska Center, Denison University

$750

AWARDS AND ACCOLADES

Kirtley Mather Geology Award- Denison University, 2025

Award for outstanding academic performance in the geosciences. Highest award given at Denison University in the Department of Earth and Environmental Science, given to two students at the end of their senior year.

Spang Prize- Denison University, 2024

Award for excellence in the geosciences. Supports students in excellent academic standing at the end of their junior year, seeking a Bachelor of Science in anticipation of advanced study in the Geosciences.

Frederick T. Holden Scholarship- Denison University, 2023

Award for excellence in the geosciences. Supports students in excellent academic standing at the end of their junior year.

REFERENCES

Dr. Chelsea Mackaman-Lofland, University of Tennessee Knoxville • cmackama@utk.edu

Dr. Matthew C. Jungers, Denison University • jungersm@denison.edu

Dr. Anjali M. Fernandes, Denison University • fernandesa@denison.edu