

Malcolm Albergo-Radisch

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EDUCATION

North Carolina State University, College of Engineering, Raleigh, NC
B.S., Biomedical Engineering, Lampe Joint Department of BME at NCSU and UNC-CH
Teamwork in Interdisciplinary Biomedical Research Minor

Expected May 2027
GPA: 3.48

North Carolina School of Science and Mathematics, Durham, NC
High School Diploma

May 2023

RESEARCH EXPERIENCE

Undergraduate Researcher | *Piedrahita Lab* | Raleigh, NC

August 2025-Present

- Utilized gene-edited porcine model to study LGR5-expressing cell spatial patterning and signaling in lung and intestinal tissue.
- Optimized and developed experimental protocols. Produced novel methods for lung inflation with agarose.

CMI U-TEAM Undergraduate Research Fellow | *Piedrahita Lab* | Raleigh, NC

April 2025-August 2025

- Studied in an interdisciplinary lab under Dr. Jorge A. Piedrahita in the College of Veterinary Medicine at NCSU.
- Utilized gene-edited porcine model to image the spatial organization of LGR5-expressing cells in the intervertebral disc. Confirmed their presence for the first time outside of scRNA-seq data.

TEACHING EXPERIENCE

Lab Education Facilitator | *Museum of Life and Science* | Durham, NC

November 2025-July 2026

- Utilized inquiry-based learning to engage hundreds of learners of all ages and backgrounds a day.
- Facilitated spaces and demonstrations for Museum guests across a range of topics and formats, including mammals, reptiles, insects, arachnids, planetarium and liquid nitrogen shows.

Photography Teaching Assistant | *NC School of Science and Math* | Durham, NC

October 2022-May 2023

- Managed crew, chair, stand and equipment setup for middle and high school jazz big bands on the main stage at the North Carolina School of Science and Math's Annual Jim Ketch Jazz Festival.

LEADERSHIP EXPERIENCE

UAC Student Representative | *Lampe Joint BME* | Raleigh, NC

September 2025-Present

- Represented ~560 sophomore, junior and senior students as sole student representative in the Lampe Joint Department of Biomedical Engineering in undergraduate advisory committee meetings.
- Voiced input on departmental considerations including GPA required to take graduate level courses as an undergraduate and curriculum changes.

Albright Entrepreneurs Village, Village Mentor | *NC State University* | Raleigh, NC

March 2025-Present

- Planned and executed creative events for the engagement of the entrepreneurship community on NC State's centennial campus. Most notably, an annual Durham Non-Profit day in which students were able to interact with executive leadership of 501(c)(3) organizations in the City of Medicine.
- Collaborated with an interdisciplinary team to ensure the well-being of over 120 student residents every year.

Jim Ketch Jazz Festival Stage Manager | *NC School of Science and Math* | Durham, NC

May 2023-May 2025

- Managed crew, chair, stand and equipment setup for middle and high school jazz big bands on the main stage at the North Carolina School of Science and Math's Annual Jim Ketch Jazz Festival.

RELEVANT SKILLS

Technical: QuPath, Fiji, SolidWorks, R, Matlab,

LLM Proficiency: Gemini, Claude

Creative/Organizational: Microsoft Suite, Ableton, Creative Cloud, Canva

Languages: English - Fluent, Latin - Reading, Spanish - Elementary

PRESENTATIONS

Albergo-Radisch, M.A. (2026). “A Framework for Confirming Axon-LGR5+ Fibroblast Signaling in Gene-edited Porcine Model.” Poster presented at the Biomedical Engineering Society Annual Meeting 2026, Orlando, Florida.

Albergo-Radisch, M.A. (2026). “Age Associated Changes in LGR5+ Cell Distribution in Proximal and Distal Airways in Porcine Model.” Poster presented at the Comparative Medicine Institute Annual Meeting 2026, Raleigh, NC.

Albergo-Radisch, M.A. (2026). “Age-Associated Changes in Proximal-to-Distal LGR5+ Stromal Cell Distribution in the Porcine Lung.” Poster presented at the Spring Undergraduate Research & Creativity Symposium 2026, Raleigh, NC.

Albergo-Radisch, M.A. (2026). “LGR5 in Intervertebral Disk Development in Porcine Model.” Poster presented at the Grand Challenges Scholars Program Annual Meeting 2026, Rome, Italy.

HONORS AND AWARDS

- Honorable Mention Envisioning Research Image Contest, *NCSU Office of Undergraduate Research*, 2026
- Force Multiplier Award, *NCSU Innovation and Entrepreneurship*, 2025
- VenturePack Challenge Finalist, *NCSU Innovation and Entrepreneurship*, 2025
- Eagle Scout, *Scouts BSA*, 2022