Rachel Morris

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PROFESSIONAL SUMMARY

A highly motivated and detail-oriented student interested in molecular biology and biotechnology, with one year of independent research experience. Skilled in cell culture, molecular biology, data analysis, and various laboratory techniques. Eager to contribute to drug discovery, cancer research, and other therapeutic advancements within a collaborative, research-driven environment.

EDUCATION

North Carolina State University **May 2026**

- Master of Microbial Biotechnology, Professional Science Masters, GPA: 3.80

North Carolina State University & UNC Chapel Hill **May 2024**

- Bachelor of Science in Biomedical Engineering, GPA: 3.741, Magna Cum Laude
- Concentration in Rehabilitation Engineering and Regenerative Medicine
- Minor: Dance Performance and Choreography, University Scholars Program, Dean's List (All Semesters)

North Carolina School of Science and Mathematics (Online Program) **2018-2020**

- Concentration in Materials Science and Engineering

KEY SKILLS

Technical: Cell Culture, Molecular Biology, Biochemical Analysis, Histology, Medical Imaging (MRI), RNAi (in mammals, plants, nematodes), PCR, RT-PCR, Western Blot, FDA Regulations, Market Research, Data Analysis, SAS, MATLAB, SOLIDWORKS, Arduino IDE, HTML/CSS, Visual Basic, Finite Element Analysis, Microsoft Word, PowerPoint, Excel
Soft: Strong Work Ethic, Interpersonal Communication, Detail-Oriented, Problem-Solving, Time Management, Punctual, Inclusive Team Player, Positive, Perceptive, Loyal, Helpful, Responsible, Inquisitive, Well-Rounded

RESEARCH / WORK EXPERIENCE

Graduate Teaching Assistant, NC State University **August 2024 – Present**

- Teaching Assistant for BIO 183, Introductory Biology II: Cellular and Molecular Biology.
- Independently teach and grade work for 4 laboratory sections, fostering student engagement and understanding.

Undergraduate Researcher, Translational Orthopaedic Research Lab **May 2023 – May 2024**

Research focuses on understanding the normal structure and function of musculoskeletal soft tissues and utilizing this information to develop new tissue engineering and regenerative medicine solutions.

- Selected as an Abrams Scholar which funded my research on meniscus inflammation following ACL injury in porcine models. Received Outstanding Undergraduate Presentation Award at department retreat.
- Performed diverse lab techniques including histology, imaging, biochemical and MRI analysis of the knee.

Helping Hand Project, NC State University, Raleigh, NC **August 2022 – May 2024**

Non-profit organization providing free custom prosthetics to physically challenged adolescents.

- Developed and produced 3D-printed prosthetics for children with upper limb differences in a collaborative, diverse team of undergraduate students, enabling participation in common childhood activities.
- Researched, designed, and produced a prosthetic enabling children with upper limb differences to participate safely and independently in bike riding activities.

Intern, PrimeNeuro, Durham, NC **May – August 2021**

Diverse research start-up predicting early autism and providing employment for some adults with ASD.

- Inspected medical records and images ensuring they met company standards for research inclusion.
- Analyzed MRI images of 6 to 24 month old children's brains marking critical interest points for analysis.
- Reviewed over 1500 MRI brain scans ensuring quality assurance in the machine learning algorithm.
- Performed market analysis to ensure industry product viability and advantages over competitors.

EXTRACURRICULAR ACTIVITIES

Choreographer/Dancer, State Dance Company, NC State University **August 2020 - Present**

- Received the Creative Artist Award, choreographing dances performed for public and private audiences.
- Collaborated with students and dance professionals to produce fall and spring modern dance concerts.

Chancellor's Aide, NC State University **May 2022 – May 2024**

- Assisted at Chancellor hosted events, serving distinguished university guests and high-level officials.
- Provided an overview of the Biomedical Engineering curriculum and directed activities as necessary.
- Worked with high-achieving students providing feedback to the Chancellor about the heartbeat of NCSU.

Outreach Team Leader, Campus Crusade for Christ **August 2022 – May 2024**

- Planned and lead Bible studies and events enhancing initiative and relational outreach at NC State.

WinShape College Program, NC State University **May 2021 – May 2024**

- Utilizing Clifton Strengths techniques coached students to be optimal leaders in their desired profession.
- Formulated a Life Purpose Statement outlining the plans for my life based on my strengths and passions.