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# Riley Cassidy

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## OBJECTIVE

Driven Pre-Med student majoring in Microbiology. Seeking an opportunity to explore my passion for biology, medicine, and Molecular Genetics. Ready to devote my time to research and investigative experiences.

## SKILLS

- Communicative
- Organized
- Dependable
- Curious

## EDUCATION

**University of Florida** | Gainesville, FL | Major, Microbiology | Certificate, Visual Arts in Medicine | Expected Graduation, May 2027

**Saint Thomas Aquinas High School** | Fort Lauderdale, FL | GPA: 5.29 | Graduated, May 2023

## AWARDS

UF College of Medicine University Scholar (2025-2026) | CALS Undergraduate Scholarship (2024-2026) | UF Honors Program | UF Undergraduate Research Scholar | Phi Eta Sigma | National Merit Commended Scholar(2022) | Dartmouth Book Award(2022)

## RELEVANT COURSE EXPERIENCE

Research and Creativity at UF | Molecular Genetics | Python Programming | Biology 1 & 2 | General Psychology | Anatomy & Physiology | General Chemistry 1 | Physics 1 | Calc 1 & 2 | Statistics |

## MEMBERSHIPS

UF- Community Health Service Corps Club [event coordinator]	2023 - Present
UF- Friends for Life Club [secretary]	2023 - Present
UF- Baking for Wellness Club	2023 - Present

## Research

### Nemudryi Lab [fall 2024 - current]

- reviews, conducts, and presents research on mammalian cell immune systems and biotechnology tools
- Performs site-specific mutagenesis, molecular cloning, and other techniques

### McLaughlin Lab [fall 2023 - fall 2024]

- Involved in various projects to study stress mechanisms that contribute to disorders of mood, memory, learning, and drug abuse
- Studied stress-related drug relapses and tested treatments that could potentially help prevent these

### CURE Class [spring 2024]

- Worked under Dr.Miro-Herrans to create neighbor-joining phylogenetic trees from *Pediculus capitis* mitochondrial DNA
- Trees generated using field & imported data
- Utilized BASH and FigTree Software
- Used bootstrap values to organize branches and clades

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## Experiences

### **TA for Molecular Genetics Class** [spring 2025]

- Mentor and tutor undergraduate students at the University of Florida
- Grade students' assignments and exams

### **Bioinformatics Workshop** [summer 2024]

- Attended one week-long workshop to learn introductory bioinformatics
- Workshop held by the Department of Microbiology and Cell Science at the University of Florida

## Clinical Hours

### **Memorial Regional Hospital, Volunteer** [100 hours]

- In-Patient Pharmacy volunteer
- labeled, sorted, and delivered medications throughout the hospital
- Shadowed pharmacy technicians and other healthcare professionals
- Attended medical student lectures

### **Ronald McDonald House, Caretaker / Kids Crew Board Member** [150 hours]

- Served as a caretaker for children, and their families, undergoing treatment at UF Health Shands Hospital
- Volunteer at the Ronald McDonald House, which houses and supports families while their child receives treatment
- Help organize drives, fundraisers, house-wide events, and help families with day-to-day tasks