

# Dylan Pfannenstiel

2013 Amber Springs, Mesquite, TX 75181

214-679-1188 | [dylpfa@utexas.edu](mailto:dylpfa@utexas.edu) |

## EDUCATION

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**The University of Texas at Austin**, Austin, TX

May 2021

*Bachelor of Science in Biology (Microbiology and Infectious Disease)*

GPA: 3.86

## EXPERIENCE

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**University of Texas at Austin, Department of Molecular Biosciences**, Austin, TX

September 2019 - Present

*Undergraduate Researcher – Harshey Group*

**Texas A&M Health Science Center Summer Research Program**, Bryan, TX

May 2019 - July 2019

*Research Fellow – Andrews-Polymenis Group*

- Elucidating function of retron systems in *Salmonella typhimurium*
- Determining if function of putative toxins encoded by retron open reading frames are conserved outside of native organisms

**Freshman Research Initiative, Antibiotics Stream**, Austin, TX

January 2018 - May 2019

*Undergraduate Researcher*

- Characterizing essential genome and regulatory genes for antibiotic synthesis in bacteria genus *Streptomyces*
- Developing visual indicator of antibiotic production via GFP plasmid vector
- Presented at Undergraduate Research Forum, Spring 2019

## ACTIVITIES & LEADERSHIP

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**UT Natural Sciences Council**, Austin, TX

September 2019 - Present

*Community Involvement Committee Chair*

- Coordinate

**Brookdale Hospice**, Austin, TX

August 2019 - Present

*Patient Volunteer*

**Freshman Research Initiative**, Austin, TX

December 2018 - May 2019

*Lab Mentor*

- Mentoring freshmen in lab technique, safety, hypothesis design, and troubleshooting

## SKILLS

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**Lab:** Virology lab technique, Molecular biology lab technique, Bacteriology lab technique, Experiment design

**Data Analysis/Visualization:** R, Modeling of biological systems, Prism/GraphPad, Microsoft Excel

**Certifications:** BSL-2, Hazard Communication/Laboratory Safety/Hazardous Waste and Management (UT Austin)

## Awards

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**Texas A&M College of Medicine Research Fellow** – Summer 2019

**University Honors** – Fall 2018 - Spring 2020

**FRI Summer Fellowship** – Summer 2018