

Rusty Lynn Hartman

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Education

PHD IN BIOMEDICAL SCIENCES | UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER

- Discipline: Integrative Physiology
- Anticipated Graduation Date: May 2023

BACHELOR OF SCIENCE | HONORS COLLEGE | MAGNA CUM LAUDE MAY 2019 | UNIVERSITY OF NORTH TEXAS

- Major: Biochemistry
- Minor: Biology
- GPA: 3.773

Research Experience

PHD STUDENT | UNT HEATH SCIENCE CENTER | DEPARTMENT OF PHYSIOLOGY AND ANATOMY | DR. KEISA W. MATHIS | DEC. 2019-PRESENT

- Currently working with a mouse model of systemic lupus erythematosus-mediated hypertension to understand how the body regulates itself to compensate for this disease.

SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP UT SOUTHWESTERN MEDICAL CENTER | DR. NAN YAN | JUNE 2018-AUG. 2018

- Selected for a nationally competitive fellowship to perform research on mouse primary and immortalized bone marrow-derived macrophages to probe for the different immune responses attributed to stimulating these cells with different ligands.

UNDERGRADUATE RESEARCHER | UNIVERSITY OF NORTH TEXAS | DR. LEE HUGHES SEP. 2018-MAY 2019, AUG. 2017-MAY 2018, SEP. 2016-MAY 2017

- Isolated a bacteriophage, "Intolerant", from soil using top agarose plating.
- Isolated and annotated a bacteriophage in *Streptomyces tricolor*, named "Rusticus".

UNDERGRADUATE RESEARCHER | WEST TEXAS A&M UNIVERSITY | DR. DAVID KHAN MAY 2017-AUG. 2017, MAY 2016-AUG.2016, SEP. 2014-JUNE 2015

- Performed research involved with ELISA assays to compare antibody presence in metastatic and normal breast cancer cells.
- Performed research on the Stability profiles of HSPC Peptide-Modified Liposomes designed to target the $\alpha 3 \beta 1$ integrin on metastatic breast cancer cells.
- Contributed original figures for a general chemistry textbook. Khan, D., & Yarbrough J. (2018) *Chemistry A Fundamental Overview of Essential Principles (First Edition)*. Cognella, Incorporated.

UNDERGRADUATE STUDENT | UNIVERSITY OF NORTH TEXAS | DR. LEE HUGHES AUG. 2015-MAY 2016

- Isolate, purify, extract DNA, annotate and archive my own bacteriophage genome, named "Bioscum".

Honors and Awards

- University of North Texas President's List
- University of North Texas Dean's List

Spring 2016, Spring 2017, Fall 2018
Fall 2015, Fall 2016, Fall 2017

Skills

- Tissue Homogenization
- Protein Assay
- Western Blot
- RT-QPCR
- ELISA
- Cell Culturing

Professional Development

SEMINAR SERIES | SEP. 2019-PRESENT

- Current Topics in Physiology

Community Service

PHYSIOLOGY UNDERSTANDING (PHUN) TOUR | FORT WORTH, TX DEC. 12, 16, 18, 2019

- Led stations for k-12 students to teach them about Physiology.

PIONEER/EAGLE AWAKENING CATHOLIC RETREAT | DENTON, TX

- Group Head that helped facilitate the needs of the retreatants, as well as setting up and taking down the retreat center. Nov. 16, 2018-Nov. 18, 2018
- Led a small group for teens, facilitated small group discussion and provided support. Nov. 17, 2017-Nov. 19, 2017

BIG EVENT | DENTON, TX | MARCH 24, 2018

- Volunteered with Keep Corinth Beautiful by picking up trash around the city of Corinth.

ALL SAINTS CATHOLIC CHURCH CONFIRMATION RETREAT | DALLAS, TX FEB. 9, 2018-FEB. 11, 2018

- Led small group for teens, facilitated small group discussion and provided support.

STUDY GROUP LEADER FOR DR. SUSHAMA DANDEKAR UNIVERSITY OF NORTH TEXAS | DENTON, TX

- Mentored an Organic Chemistry I class. Jan. 2017-May 2017
- Mentored an Organic Chemistry II class. Aug. 2017-Dec. 2017

Presentations

- Presented a poster (*Innate immune responses to macrophage immortalization*) at UT Southwestern Medical Center for a competitive summer research program, SURF. Aug. 9, 2018

- Contributed work for a 1st place poster presented at 2017 WTAMU Student Research Conference (*Stability Profiles and Targeting Capabilities of HSPC Peptide-Modified Liposomes Designed to Target the $\alpha3\beta1$ Integrin on Metastatic Breast Cancer Cells*) April 2017, Dec. 2017
- Selected to represent the University of North Texas SEA-PHAGES Program for the 8th Annual SEA-Phage Symposium at Janelia Research Campus in Ashburn, Virginia. Presented a poster (*Comparative Analysis of the Expanding Streptomyces BC Cluster*) and gave an oral presentation. June 2016
- Presented a poster (*The Discovery of Streptomyces Bacteriophage, "Bioscum"*) at the University of North Texas Scholar's Day. April 2016

Conferences

- Attended the Texas Phage 2017 Conference at A&M in College Station, TX. Oct. 21, 2017

Activities

- Graduate Student Association Sep. 2019-Present
- Catholic Campus Center Servant Leadership Council Member Jan. 2018-May 2018
- Alpha Lambda Delta Honor Society Member Feb. 2016-May 2019
- Housing Intern for RaHA (Rawlins Hall Housing Association) Jan. 2016-May 2016