

# Stephen C. Flowers, M.S.

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## Education

### Master of Science

University of Texas at San Antonio / Graduated December 2021

- Area of Study: Physics

### Bachelor of Science

University of North Texas / Graduated August 2019

- Major: Physics
- Minor: Mathematics
- Honors: Magna Cum Laude

## Teaching Experience

### Instructor of Physics and Mathematics

Our Lady of the Lake University / August 2023 – present

- General Physics II with Lab (PHYS 1402 & 1402L) – Spring 2024
- College Algebra with Lab (MATH 1404 & 1404L) - Spring 2024
- Physical Science I with Lab (PHYS 1411 & 1411L) - Spring 2024
- Selected Issues in Physical Science (PHSC 2190) – Spring 2024
- Selected Issues in Physics (PHYS 2490) – Spring 2024
- General Physics I with Lab (PHYS 1401 & 1401L) – Fall 2023
- College Algebra with Lab (MATH 1404 & 1404L) – Fall 2023
- Quantitative Reasoning with Lab (MATH 1401 & 1401L)

### Adjunct Instructor of Physics

Our Lady of the Lake University / August 2022 – May 2023

- General Physics II with Lab (PHYS 1402 & 1402L) – Spring 2023
- General Physics I with Lab (PHYS 1401 & 1401L) – Fall 2022

### Adjunct Instructor of Physics

Alamo Colleges District / August 2022 – Present

- Conceptual Physics (PHYS 1305) – Spring 2024
- General Physics II (PHYS 1402) – Summer 2023
- Conceptual Physics (PHYS 1305) – Spring 2023
- Stars and Galaxies (ASTR 1303) – Spring 2023
- Conceptual Physics (PHYS 1305) – Fall 2022
- Stars and Galaxies (ASTR 1303) – Fall 2022

## Work Experience

### Math and Physics Tutor

Northeast Lakeview College / August 2021 – August 2022

- Provided tutoring services for students in physics and math.

### Graduate Teaching Assistant

University of Texas at San Antonio / January 2020 – December 2021

- Prepared and instructed undergraduate physics labs.
- Provided tutoring and extra instruction for undergraduate physics students.

### **Physics Demo Room Assistant**

*University North Texas | January 2018 – May 2019*

- Developed, prepared, and performed physics demonstrations for undergraduate physics courses.

### **Astronomy Laboratory Assistant**

*University North Texas | May 2016 – December 2018*

- Assisted in instruction of students for undergraduate introductory astronomy courses.
- Assisted in planning, advertising, and running public outreach events.

## **Research Experience**

### **Stardust Research Group**

*University of Texas at San Antonio | May 2021 – Dec 2021*

- Conducted research of circumstellar dust clouds in extrasolar systems via 1-dimensional radiative transfer simulations.
- Participated in group discussions of research and academic activities.

### **UNT/UD Exoplanet Research Collaboration**

*University of North Texas | January 2018 – May 2019*

- Scheduled and performed observations of extrasolar planets.
- Instructed new research group members in research procedures.

## **Curriculum Development**

### **Our Lady of the Lake University**

*General Physics I & II (1401, 1401L, 1402, 1402L) – Summer/Fall 2023*

- Redesigned lectures and lecture structure for two introductory physics courses at Our Lady of the Lake University. Courses were redesigned after training courses in Universal Design for Learning (UDL) were completed. Courses were redesigned to increase student retention and to optimize learning for all students.

*Physical Science I (1411 & 1411L) – Summer/Fall 2023*

- Redesigned lectures and lecture structure for introductory physical science course at Our Lady of the Lake University. Courses were redesigned after training courses in Universal Design for Learning (UDL) were completed. Courses were redesigned to increase student retention, to optimize learning for all students, and to make topics of physics and astronomy more accessible by focusing on a conceptual approach.

## **Service to University**

### **Our Lady of the Lake University**

*Biomechanist Faculty Search Committee | Fall 2023 – Spring 2024*

*General Education Committee – Spring 2024 – present*

## **Professional Skills**

- Data processing and programming in Python, Microsoft Excel, and Linux
- Remote instruction with Zoom and Webex
- Experience with several research and simulation programs for observational astronomy