

JORGE ARMANDO FLORES MATUTE

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EDUCATION

M.S., Mathematics Fall 2018
University of Wyoming, Laramie, WY

B.S., Mathematics Spring 2015
Chadron State College, Chadron, NE

EMPLOYMENT

Lecturer Fall 2024 - Present
Department of Mathematics and Statistics, University of West Florida

Assistant Lecturer Fall 2020 - Spring 2024
Department of Mathematics and Statistics, University of Wyoming

Graduate Assistant Fall 2015 - Spring 2020
Department of Mathematics and Statistics, University of Wyoming

TEACHING EXPERIENCE (UNIVERSITY OF WEST FLORIDA)

1. College Algebra with Lab (MAC 1105C, Current)
2. Trigonometry (MAC 1114, Current)

TEACHING EXPERIENCE (UNIVERSITY OF WYOMING)

1. Trigonometry (MATH 1405)
2. Algebra and Trigonometry (MATH 1450)
3. Calculus I (MATH 2200)
4. Calculus II (MATH 2205)
5. Calculus III (MATH 2210)
6. Elementary Linear Algebra (MATH 2250)
7. Applied Differential Equations I (MATH 2310)
8. Math Major Seminar (MATH 2800)
9. Math Applications for Business (MATH 2355)
10. Math Major Seminar (MATH 2800)
11. Algebra I (MATH 3500)

LECTURER RESPONSIBILITIES (UNIVERSITY OF WEST FLORIDA)

Course Instructor

Be the instructor of record for various courses at the university. My duties include:

- Create lecture materials.
- Write exams and homework assignments.
- Manage student inquiries for various students.
- Plan group activities.
- Implement technological tools in the lectures (such as animations and pictures).
- Hold office hours each week.
- Work with other instructors and teaching assistants.

Other Service

- Serve in committees as assigned by the department chair.

ASSISTANT LECTURER RESPONSIBILITIES (UNIVERSITY OF WYOMING):

Course Coordination

Coordinated Trigonometry during Fall 2020 and Calculus III from Spring 2022 to Spring 2024. My coordination duties include:

- Hiring undergraduate teaching assistants.
- Training undergraduate and graduate teaching assistants to lead discussion sessions.
- Create exams, homework assignments, discussion assignments, and lectures for the course instructors and teaching assistants.
- Direct instructors and teaching assistants on their grading responsibilities.
- Manage student requests/issues that arise during the semester (100+ students per semester).

Course Instructor

Be the instructor of record for various courses at the university. My duties include:

- Create lecture materials.
- Write exams and homework assignments.
- Manage student inquiries for various class sizes (small to 100+ students).
- Plan group activities.
- Implement technological tools in the lectures (such as Poll Everywhere and 3D animations).
- Hold office hours each week.
- Work with other instructors and teaching assistants.

CASM Coordinator

Help coordinate and manage the Center for Assistance with Statistics and Mathematics (CASM). The CASM is a tutoring center ran by the Mathematics and Statistics department which provides free tutoring services to students in various courses. My duties as a coordinator include:

- Hiring of math tutors.
- Provide math content training to tutors.
- Create and update problem sets for tutors to use as review materials for various courses.
- Meet with various graduate students and oversee projects for them to complete.
- Participate in weekly meetings with the other coordinators to discuss the management of the CASM.
- Help resolve issues with tutoring sessions, tutoring availability, etc.
- Draft various documents pertaining to CASM rules and guidelines.
- Write Python programs for gathering and analyzing the tutoring data we collect each semester.
- Use online software to create fun activities and promote job identification with the tutors.
- Create advertisement materials for the CASM.

Math Club Coordinator

The Math Club is a club for students interested in mathematics and logic and wanting to share their interests with other students and faculty. The goal of the club is to strengthen the mathematics/logic interests of students and foster a community of mathematical interest. My duties include:

- Plan various activities for the club during the semester.
- Acquire and manage funds for the club, sponsored by the Mathematics and Statistics department.
- Write and find math/logic problems for students to work on.
- Manage all data pertaining to the club (participating students, problem sets, guest speakers, etc.)
- Manage advertising activities for the club throughout the university.

Wyoming Pi Days Coordinator

Wyoming Pi Days is an event for undergraduate students of all majors interested in mathematics. It consists of a series "Pizza and Problem Solving" (PPS) evenings in which students get together, eat pizza, and work on a series of mathematics/logic problems. These PPS evenings culminate in an exam, called Pi Day Competition, in which participants can test their problem-solving skills. The main goal of Wyoming Pi Days is to strengthen the mathematics culture provided to undergraduates in the university. My duties as coordinator include:

- Acquire and manage funds for the event, sponsored by the Mathematics and Statistics department.
- Advertise the event throughout the university.
- Meet with the other coordinators to decide on the event format and rules.

- Help write and revise the Pi Day Competition exam.
- Manage all data pertaining to the event.
- Prepare a press release for the event.

Other Service

- Wyoming Math State Competition (department representative)
- Math Undergraduate Committee (member)
- Served in five hiring committees (three for faculty, two for staff)
- Saddle Up Program UWYO (instructor; Fall 2022 and Fall 2023)
- ACNT Seminar (participant)

RESEARCH INTERESTS:

1. Effective and efficient tutoring practices.
2. Geometric realizations of partial linear spaces in projective planes.
3. Constructions of Steiner systems.

PRESENTATIONS (ACNT SEMINAR, UNIVERSITY OF WYOMING)

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| 1. On Steiner Systems | Fall 2022 |
| 2. Real Normed Division Algebras | Spring 2021 |
| 3. Introduction to Projective Planes | Fall 2020 |
| 4. Introduction to Gröbner Bases | Spring 2020 |
| 5. Geometric Realizations of Partial Linear Spaces in Projective Planes | Fall 2019 |
| 6. Geometries of Nondegenerate Quadrics Part 2 | Fall 2019 |
| 7. Geometries of Nondegenerate Quadrics Part 1 | Spring 2019 |
| 8. Sphere Packing Problem in 8 and 24 Dimensions | Fall 2018 |
| 9. Classification of Quadratic Forms over Finite Fields and Galois Rings | Spring 2018 |
| 10. Conway's Construction of Ovoid's via the E_8 Root Lattice | Spring 2017 |

PROFESSIONAL DEVELOPMENT

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| 1. Joint Mathematics Meeting (attendee) | January 2020 |
| 2. Completion of the Faculty Learning Community Course (University of Wyoming) | Fall 2020 |

AWARDS AND GRANTS

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| 1. Tau Beta Pi Outstanding Undergraduate Teaching Award (University of Wyoming) | 2024 |
| 2. UW Libraries Open Textbook Grant (\$5000) | 2023 |
| 3. Promoting Intellectual Engagement in the First Year (PIE) Award (University of Wyoming) | 2022 |
| 4. CSCEA Scholarship | 2015 |
| 5. Lawrence Lindahl Memorial Scholarship | 2014 |
| 6. Certified tutor by the CRLA under the International Tutor Training Program | 2013 |
| 7. Darold A. Newblom Foundation Scholarship | 2013 |

TECHNICAL SKILLS

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| Teaching Languages | English, Spanish |
| Teaching Software | MyLab Math, MyOpenMath, Canvas, Poll Everywhere |
| Operating Systems | Windows, Unix based |
| Programming Languages | C, Python |
| Computer Algebra Systems | Mathematica, MATLAB, GAP, nauty |
| Text Editors | LaTeX |
| Miscellaneous | Microsoft Word, Excel, PowerPoint, Zoom |

REFERENCES

Dr. Jason Williford, Professor
Department of Mathematics & Statistics
University of Wyoming
(307) 766 2209
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Dr. Bryan Shader, Professor
Department of Mathematics & Statistics
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Dr. Tyrrell McAllister, Associate Professor
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Dr. Victor Ginting, Professor
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