

## Faculty Activity Report AY2022/23

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### Teaching/Advising

#### Courses Taught

##### Fall-Quarter 2022

MA 223, section MA223-01, Engineering Statistics I. 28 enrolled.  
MA 223, section MA223-02, Engineering Statistics I. 30 enrolled.  
MA 386, section MA386-01, Statistical Programming. 17 enrolled.

##### Winter-Quarter 2023

MA 223, section MA223-01, Engineering Statistics I. 30 enrolled.  
MA 480, section MA480-01, Soc Justice & Statstcl Cncpts. 5 enrolled. This course was cross-listed with HSSA and co-taught with Dr. Jessica Livingston. We developed this course to give students tools for addressing social injustice. The course asked students to combine data (and corresponding analysis) with rhetoric and story-telling in order to give a compelling argument. While the enrollment was not high, the course demanded a lot as it was interdisciplinary and involved a large project. The students who participated in the course found it very valuable.

##### Spring-Quarter 2023

BE 482, section BE482-01, Biostatistics. 5 enrolled.  
MA 482, section MA482-01, Biostatistics. 12 enrolled.  
MA 223, section MA223-03, Engineering Statistics I. 26 enrolled.  
MA 223, section MA223-04, Engineering Statistics I. 26 enrolled.

#### Course Development

New course/lab development, MA480 - Social Justice and Statistical Concepts, This course was cross-listed with HSSA and co-taught with Dr. Jessica Livingston. We developed this course to give students tools for addressing social injustice. The course asked students to combine data (and corresponding analysis) with rhetoric and story-telling in order to give a compelling argument. The course was truly interdisciplinary, weaving together elements of analysis and rhetorical critique. It blended various media together to investigate social injustice in various contexts., (August 2022 - March 2023)

#### Academic Advising

Total # of Advisees  
8

Academic Year  
2022-2023

# of Advisees who are Freshmen

6.

### **Other Advising**

Student Organization Advising, InterVarsity Christian Fellowship, 30, Meet with Leadership Team (~ 5 students) each week; meet with others at larger meetings once per term., (2014 - Present)

Undergraduate Research Advising, Riya Bharamaraddi, 1, Reproduced selected results from a published paper investigating the characteristics associated with driving under the influence of marijuana among adolescents using data from a national survey., (2023 - 2024)

## **Professional Development/Research**

### **Faculty Development Activities Attended**

#### **Presentations**

Reyes, E. M. (Workshop Leader), Rose-Hulman Teaching Workshop, "Developing a Vision," Rose-Hulman, Terre Haute, IN, United States. (August 2023).

Reyes, E. M. (Presenter), Curley, B. (Presenter), Loy, A. (Presenter), US Conference on Teaching Statistics, "Communicating Progress in a Statistics Course through Non-Traditional Grading," CAUSE, State College, PA, United States. (June 2023).

Reyes, E. M. (Panelist / Co-Organizer), Dosmar, E. (Panelist / Co-Organizer), Carlisle, S. (Panelist), House, R. A. (Panelist), Williams, J. M. (Panelist), Midwest Conference on the Scholarship of Teaching and Learning, "Refocusing Students Toward Learning through Alternative Assessment Approaches," South Bend, IN, United States. (March 2023).

#### **Publications**

Ratcliffe, B., Danek, R., Ireland, E., & Reyes, E. M. (2022). Rural and Urban EMS Level of Comfort with Overdose Treatment. *Journal of Regional Medical Campuses*, 5(1).  
<https://doi.org/https://doi.org/10.24926/jrmc.v5i1.4388>

### **Intellectual Property**

### **Sponsor Funded Research**

### **Other Research**

Statistical Collaboration with IU School of Medicine, Terre Haute, Industry Funded, Work with medical students on their research for the scholarly concentration. This involves reviewing their proposals and making recommendations regarding an appropriate analysis; it also includes reviewing their drafts. Occasionally, these are full collaborations that seek publication where I am the lead statistician., (August 2019 - Present)

## **Committees/Service**

### **Committees**

Member, Institute Committee on Animal Care and Use: (2015 - Present); I primarily contributed to the creation and maintenance of an electronic form for IACUC submissions and a Teams page for streamlining our review process.

Member, CASO: (2019 - 2024)

### **Service**

Mathematics Group for Program Improvement: (2021 - Present); This committee oversees the assessment program for the mathematics department. It oversees artifact collection, reviews reports from artifact rating sessions, and makes recommendations to the department.

Rose Show Planning Committee: (2020 - Present); As a member of the Rose Show planning committee, my primary responsibilities involve overseeing the registration process and the program creation.

Isolated Statisticians Webmaster, American Statistical Association: (2017 - Present); I maintain the website for the Isolated Statisticians group; this is a network of statisticians who are employed in (primarily academic) settings in which there are few other statisticians.

Moodle Mentor: (2017 - Present)

Academic Affairs Faculty Representative to the Board of Trustees: (2022 - 2024); Worked with other reps and the President to develop expectations for the representatives. The position had been largely nebulous, and we documented the current process, including working with the board on the presentation of the winter survey.

Teaching Workshop Co-Coordinator: (2023); Co-coordinated the workshop for incoming faculty.

Strategic Plan Affordability Design Team: (2023); Participated on the affordability/value design team for the Tier 2 strategic plan.

High School Math Contest: (2020 - 2022); As a member of the planning committee for the High School Math Contests, my primary responsibilities include overseeing the registration process.