

## Faculty Activity Report AY2021/22

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### Teaching/Advising

#### Courses Taught

##### **Fall-Quarter 2022**

BMTH 496, section BMTH496-02, Capstone Experience I. 1 enrolled.

MA 382, section MA382-01, Intro to Stats w/Probability. 10 enrolled.

MA 382, section MA382-02, Intro to Stats w/Probability. 15 enrolled.

MA 386, section MA386-01, Statistical Programming. 9 enrolled.

##### **Winter-Quarter 2022**

MA 483, section MA483-01, Bayesian Data Analysis. 8 enrolled.

BMTH 497, section BMTH497-01, Capstone Experience II. 1 enrolled.

MA 223, section MA223-02, Engineering Statistics I. 29 enrolled.

MA 490, section MA490-02, SocialJustice,Statstcl Concppts. 6 enrolled.

##### **Spring-Quarter 2022**

BE 482, section BE482-01, Biostatistics. 1 enrolled.

MA 482, section MA482-01, Biostatistics. 10 enrolled.

MA 223, section MA223-04, Engineering Statistics I. 25 enrolled.

MA 223, section MA223-05, Engineering Statistics I. 26 enrolled.

BMTH 498, section BMTH498-01, Senior Capstone III. 1 enrolled.

#### Course Development

New course/lab development, MA490 Social Justice and Statistical Concepts, This was a 1-CR seminar course examining the use of statistics in social justice contexts. The course was a pilot for a 4-CR version to be run the next academic year. The course blended together statistical concepts with social justice concepts from a humanities perspective. I met regularly with Dr. Livingston in HSSA in order to develop better discussion points and keep the discussion broad (not just focused on the technical aspects)., (November 2021 - March 2022)

Course/lab revision, MA483 Bayesian Data Analysis, Revised the course grading structure to adopt "ungrading." This required changing the types of assignments I provide in order to build more toward students developing a portfolio of work instead of solving specific problems., (November 2021 - March 2022)

#### Academic Advising

2 undergraduate students advised, 1 graduate students advised. (2021-2022).

## **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, Lizzie Rhoads, 1, Senior project using Jackson Heart Study., (2021 - 2022)

## **Professional Development/Research**

### **Faculty Development Activities Attended**

Conference Attendance, "Joint Statistical Meetings," American Statistical Association, Washington, DC, United States. (August 2022).

### **Presentations**

Reyes, E. M. (Workshop Leader), Rose-Hulman Teaching Workshop, "Designing an Inclusive Classroom," Rose-Hulman, Terre Haute, IN, United States. (August 2022).

Reyes, E. M. (Workshop Leader), Rose-Hulman Teaching Workshop, "Developing a Vision," Rose-Hulman, Terre Haute, IN, United States. (August 2022).

Reyes, E. M. (Panelist), Joint Statistical Meetings, "Perspectives on Nontraditional Grading in Statistics Courses," American Statistical Association, Washington, DC, United States. (August 2022).

### **Publications**

### **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**

Chair, 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.

Member, CASO: (2019 - Present)

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.

### **Service**

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

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)

Teaching Workshop Convener, CPSE: (2022); I was the organizer for the annual Teaching Workshop primarily focused towards new faculty members. I organized speakers for the workshop and worked with Learning and Technology to redesign the Moodle training to be more hands-on with departmental mentors who would be co-teaching courses with new faculty.

Peak Performing Professor Reading Group Convener, CPSE: (2021 - 2022); At the request of Dr. Ingram, I led a year-long reading group that worked through the text Peak Performing Professors by Robison. The group, which consisted of 6 Associate Professors from various departments (including myself) met regularly throughout the year as we worked through the book.

MA Department Head Search Consultant: (2022); I was the internal search consultant for the MA department head search.

Economics Hiring Search: (2021 - 2022); I served on the search committee for the Economics position within HSSA.