

Faculty Activity Report AY2020/21

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Teaching/Advising

Courses Taught

Fall-Quarter 2020

MA 223, section 1, Engineering Statistics I. 13 enrolled.

MA 223, section 2, Engineering Statistics I. 13 enrolled.

MA 223, section 3, Engineering Statistics I. 13 enrolled.

MA 223, section 4, Engineering Statistics I. 12 enrolled.

MA 496, section 1, Senior Thesis I. 1 enrolled.

MA 386, section 1, Statistical Programming. 13 enrolled.

Winter-Quarter 2021

MA 223, section 3, Engineering Statistics I. 12 enrolled.

MA 223, section 4, Engineering Statistics I. 12 enrolled.

MA 223, section 5, Engineering Statistics I. 13 enrolled.

MA 223, section 6, Engineering Statistics I. 9 enrolled.

MA 490, section 2, Nonparametric Inference. 1 enrolled.

MA 497, section 1, Senior Thesis II. 1 enrolled.

Spring-Quarter 2021

BE 482, section 1, Biostatistics. 0 enrolled.

MA 482, section 1, Biostatistics. 10 enrolled.

MA 482, section OL1, Biostatistics. 1 enrolled.

MA 223, section 5, Engineering Statistics I. 12 enrolled.

MA 223, section 6, Engineering Statistics I. 12 enrolled.

MA 223, section 7, Engineering Statistics I. 12 enrolled.

MA 223, section 8, Engineering Statistics I. 10 enrolled.

MA 480, section 1, SAS Programming. 1 enrolled.

MA 498, section 1, Senior Thesis III. 1 enrolled.

Summer-Quarter 2021

MA 223, section OL1, Engineering Statistics I. 17 enrolled.

Course Development

Academic Advising

Total # of Advisees

3

Academic Year

2020-2021

of Advisees who are Freshmen

0

I advised two senior capstone experiences (three total students, 2 were paired on the same project). One project was based on the annual ASA Data Challenge - examining the relationship between education and homelessness. The other project aimed to develop a ranking system for Division III Cross Country.

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

Presentations

Publications

Popovic, K., Reyes, E. M., O'Connor, J. B., Dee, K. C., & Ingram, E. L. (2021). Creating Adaptable Courses: A Course Design Approach that Accommodates Flexible Delivery. In *Resilient pedagogy: Practical teaching strategies to overcome distance, disruption, and distraction* (pp. 148–165). Utah State University. <https://digitalcommons.usu.edu/resiped/1/>

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)

Member, Faculty Affairs: (2018 - 2021); During the 2020-2021 academic year, I served as "outgoing chair." During this time, I attended meetings with the Dean, VPAA, and current chair (Simon Jones) as we navigated the return to school during the COVID-19 pandemic. In particular, I helped Simon draft initial language for a Professor of Practice position at Rose-Hulman.

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)

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.

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.

"Backward Design and Learning Outcomes", RHIT Teaching Workshop: (2021); Invited to give a presentation for new faculty at the annual teaching workshop.

Planning Committee for USCOTS, CAUSE: (2020 - 2021); Member of the planning committee (Workshop Subcommittee) for the US Conference on Teaching Statistics (USCOTS). Helped select and schedule workshop sessions. I also attended several of the workshops and sessions to moderate during the conference. Finally, I was invited to speak at the conference during the closing session to provide thoughts on the conference theme of "Expanding Opportunities."