

SIGMAA Panel: Navigating the Frontier: Statistics, Data Science, and AI in the First Two Years of College

Joint Mathematics Meeting
Seattle, Washington
January 10, 2025
10:30 am - 12:00 pm

Organizer and Moderator :

Helen Burn, Highline College, Past Chair,
SIGMAA Statistic and Data Science Education

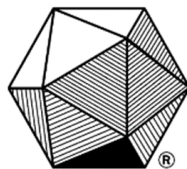
Panelists:

Patti Frazer Lock, St. Lawrence University

Jamie Perrett, Brigham Young University

Kelly McConville, Bucknell University

Victor Piercey, Ferris State University



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SIGMAA Statistics and Data Science Officers

Chair: Troy Riggs, Union University

Past Chair: Helen Burn, Highline College

Chair Elect: Arnold Ayap

Secretary/Treasurer: Tiffany Kolba, Valparaiso University

Program Chair: Immanuel James Williams, Cal Poly San Luis Obispo

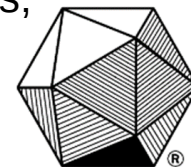
Webmaster: Haris Skiadas, Hanover College

Thank you to Past Chair Jeremy Case, Taylor University and Program Chair
Melissa Innerst, Dickinson College

Annual Awards:

Robert V. Hoag Award for Excellence in Teaching Introductory Statistics;

Dexter C. Whittinghill, III, Award for Outstanding Contributed Paper at
Mathfest



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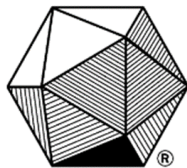
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Session Description and Overview

The fast-evolving educational landscape, particularly in **statistics, data science, and AI**, underscores the importance of **integrating these subjects in the first two years of college**. This panel convenes **experts** to explore teaching challenges and opportunities, emphasizing early college courses. Attendees will **gain insights** into curriculum design and teaching methods, **preparing students for success in a data-driven society**.

- 15 minutes for each panelist
- 10 minutes for questions/comments
- We welcome email follow up



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What is our change strategy for bringing data science into the first two years of college?

Introductory Statistics enrollments increased significant due to these reforms:

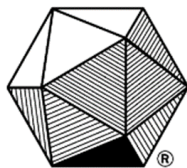
- Improving initial math placement (~2010)

- Developing multiple math pathways (~2015)

- Offering corequisite mathematics in lieu of traditional developmental math (~2018)

Data science is driven by need of **workforce, partner disciplines, larger society**

Potential change levers: faculty development, interdisciplinary collaboration, student engagement, curricular redesign, institutional/foundational support.



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