18th Front Range Applied Mathematics (FRAM) Student Conference

University of Colorado - Denver

Saturday, March 12th, 2022

Sponsors: The SIAM Student Chapters at
University of Colorado: Boulder, Colorado Springs and Denver campuses
Colorado State University, Colorado School of Mines, MSU Denver, Colorado College, U. Wyoming

The Front Range SIAM Student Chapters are sponsoring the 18th Annual Applied Mathematics Regional Student Conference. This event allows students from all universities along the Front Range to learn about new developments in Applied Mathematics and promotes interest in the field. The conference is open to _both_ undergraduate and graduate students.

Registration Information

Despite the COVID restrictions this year, the conference will take place in a hybrid format, in person with the possibility of joining via Zoom (in person participation is encouraged). There will be a $10 student registration fee for in-person participants, to defray the cost of the refreshments, and $20 for faculty. Participants are required to register in advance for accessing the live sessions via Zoom. For more information and to register, please visit the website: http://framsc.org.

Call for Presentations

There will be 20-minute student presentations. An industry panel will take place during lunchtime. A special MCM/ICM session will also be organized. Please send abstracts in LaTeX (.tex) or plain text (.txt) format to FRAMSC.abstracts@gmail.com. For more info, please check the conference website or contact the organizers.

Abstract submission deadline is Friday, March 4, 2022!

Contact Information

University of Colorado Boulder:
Dr. Anne Dougherty, anne.dougherty@colorado.edu
Dr. Stephen Becker, stephen.becker@colorado.edu

University of Colorado Colorado Springs:
Dr. Radu Cascaval, radu@uccs.edu

University of Colorado Denver:
Dr. Emily Speakman, emily.speakman@ucdenver.edu

Colorado State University:
Dr. James Liu, liu@math.colostate.edu

Colorado School of Mines:
John Griesmer, griesmer@mines.edu

Metropolitan State University of Denver:
Dr. Henc Bouwmeester, hbouwmee@msudenver.edu
Dr. Brendan Fry, bfry2@msudenver.edu

Colorado College:
Dr. Beth Malmskog, bmalmskog@ColoradoCollege.edu

University of Wyoming:
Dr. Victor Ginting, vginting@uwyo.edu

Plenary Speaker

Dr. Audrey Hendricks
University of Colorado Denver

Statistics in the News: how statistical thinking can help us be better consumers of the numbers, data, and statistics all around us

Abstract: New statistics and machine learning models hold broad excitement in many areas including personalized medicine, targeted advertising, self-driving cars, and farming. Indeed, businesses now tout AI divisions in advertising campaigns. But as can often happen with new, exciting technology, missteps have occurred. Here, I show how a focus on foundational statistics principles can help experts and the general public alike be more informed and critical consumers of statistics (and AI) in the news, journal articles, and our everyday life.

Bio: Audrey Hendricks is an Associate Professor in the Department of Mathematical and Statistical sciences with secondary appointments in Biostatistics & Informatics, the Colorado Center for Personalized Medicine, and the Human Medical Genetics and Genomics Program. She is passionate about data science literacy for all and removing barriers to learning. Dr. Hendricks's research focuses on collaborative applied projects and statistical method development to better understand the complex nature of human diseases and traits. Recently, this includes studies to elucidate biological mechanisms behind the relationship between food and health as well as the development of methods and user-friendly software to increase the utility and equity of publicly available genetic data, especially for diverse populations. She is proud to mentor many amazing undergraduate and graduate students working on statistical challenges in human genetics and genomics.

For more information, visit the conference website:
http://framsc.org