

April 16,
2021



MATHEMATICAL ASSOCIATION OF AMERICA

MAA

PROGRAMS

StatPREP

NEWSLETTER

SUMMER 2021 WORKSHOPS

The 2021 Summer Workshops will be virtual. There are four different themes for the workshops. All the themes will be offered twice over the summer. All of the workshops will be from noon until 3 pm EDT each day they are offered.

The first theme is an introduction to the philosophy of StatPREP and several of the Little Apps that can be used to demonstrate datacentric ideas to your students. This two-day workshop will be offered twice: first on Thursday, June 10, and Friday, June 11, and second on Friday, July 9, and Saturday, July 10.

The plan for this StatPREP intro workshop is to have presentations on what it means to have your statistics class be datacentric, and the philosophy behind the ASA's GAISE statement. There will be hands-on activities on using some of the activities written for the Little Apps, and time for small group discussions. At the end of the first day there will be time for socializing, and the second day starts with a social hour. The idea is to create a community of instructors who can ask each other for advice. If you are new to teaching statistics or have been teaching for awhile but would like to add more life to your statistics course, this is a great workshop to attend to learn how to incorporate data into your course and be exposed to the StatPREP material.

The second workshop theme is an Introduction to RStudio. GAISE stresses the idea of using real data, large datasets, and deemphasizing formulas. The best way to follow these guidelines is to use statistical software. One advantage of RStudio is that it is free for students, teachers, and institutions to use. This workshop will introduce you to the basics of RStudio; no prior knowledge of RStudio is expected. This two-day workshop will be offered twice: first on Friday, June 18, and Saturday, June 19, and second on Thursday, July 15, and Friday, July 16.

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WHO'S WHO:

LEADERSHIP TEAM

Mike Brilleslyper,
Air Force Academy

Jenna Carpenter,
Campbell University

Danny Kaplan,
Macalester College

Kathryn Kozak,
Coconino Community
College

Donna LaLonde,
ASA

Ambika Silva,
College of the Canyons

Deirdre Longacher Smeltzer,
MAA

HUB LEADERS

Joe Roith, St. Olaf's College,
Northfield, MN (2017-18)

Ambika Silva, College of the
Canyons, Santa Clarita, CA
(2017-18)

Helen Burn, Highline College,
Seattle, WA (2018-19)

Hwayeon Ryu, Elon University,
Elon, NC (2018-19)

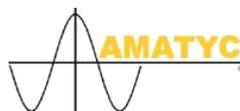
Carol Howald, Howard Commu-
nity College, Columbia, MD
(2019-2020)

Thomas Kinzeler, Tarrant
County College, Fort Worth, TX
(2019-2010)

Rona Axelrod, Florida SW State
College, Fort Myers, FL (2020-
2021)

Brooke Orosz, Essex County
College, Newark, NJ (2020-
2021)

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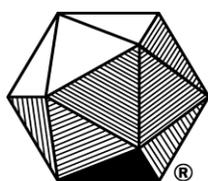
2021 WORKSHOPS Continued...

An Intermediate/Advanced RStudio workshop is offered for those who have some experience with RStudio and would like to learn more. This workshop is to expose the attendee to some of the more sophisticated commands of RStudio. An interest RStudio novice could attend the Introduction to RStudio workshop and then attend the Intermediate/Advance RStudio workshop on either Thursday, June 24 through Friday, June 25, or Friday, July 23 through Saturday, July 24.

You may be contemplating creating a data science program at your institution, but you are not sure where to start. A one-day workshop workshop will feature a panel discussion with several people who have created data science programs at their institutions. The focus will be on community colleges because of the unique issue that community college faces with articulation and workforce development. However, all institution types should gain some insights to create a program at their institution, so all faculty at any college or university are invited to attend. This one day workshop will be offered on Friday, June 4, and repeated on Saturday, July 31.

To register for any of these workshops, go to this link: <https://forms.gle/x2fLe5fq27DSiME36>.

We can't wait to see you this summer.



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**Need Help
Joining?**

Getting Started Guide **Getting Started Video**

StatPREP October Webinar



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HUB LEADER SPOTLIGHT

Hi, I'm Ambika Silva, the StatPREP hub leader for the Southwest region. My educational background includes a bachelor's degree in Pure Mathematics from UCLA, a master's degree in Applied Mathematics from California State University Northridge, and a doctorate degree in educational leadership from the University of La Verne. I teach at College of the Canyons in Santa Clarita, CA. I have taught the introductory statistics course in both a traditional F2F classroom, in a computer lab, and have taught both online and hybrid variations as well. For StatPREP, the Los Angeles area was one of the first hubs formed and I have really enjoyed seeing the progression that the StatPREP materials have taken over the years.

Outside of the classroom, I love playing tabletop games and computer online games. I also recently started making fresh sourdough and making and canning jams. With my love of games, I started thinking how I can make the online setting I'm teaching in more fun either with a game, or more interactive than just discussion boards. Face to face I try to incorporate fun activities such as throwing a globe to estimate the proportion of water on Earth, or use candies to see if colors are equally distributed. I would love to hear from faculty on MAA Connect this month and learn about the resources that work best in their introductory statistics courses either online or planning ahead for when we are back in the classroom.



WHAT ARE OUR HUB LEADERS SAYING?



Why do you recommend the virtual workshop?

These StatPREP workshops are a great way to inspire you into redesigning lessons in your course. It is also a way to connect with other instructors who are in the same boat. I've actually found that many of the ideas I've gotten from a StatPREP workshop can be used in other non-statistics courses. So overall these workshops have helped improve my teaching pedagogy as a whole.

How has StatPREP changed you as an instructor?

StatPREP has changed the way I approach my Intro Stats class. Instead of lecturing about theorems and spending time doing tedious calculations, I am now investing class time towards working with large data sets, exploring the concepts, and helping my students draw conclusions. It has created a much more dynamic environment that really engages my students better.

THOMAS KINZELER

The initiation of a regional based discussion focusing on revising introductory statistics was the most valuable take-away I experienced from participating in a StatPREP workshop. During the StatPREP workshop we experienced great tools for introducing students to multi-variate statistical concepts and had the chance to discuss how these tools would help us align our courses to national recommendations. This prompted a wider, on-going discussion among community college faculty in the area to support a shared vision of modern statistical practice and the best practice pedagogy that can be incorporated into the classroom to prepare our students to make data-based decisions.



CAROL HOWALD

WHAT ARE OUR HUB LEADERS SAYING?



I would recommend the StatPREP workshops to anyone who would like to teach statistics in an engaging way that will impact how their students are introduced to data analysis. Using the Little Apps builds a better conceptual understanding of the process of statistics and data science. They allow for the natural exploration of data, multivariable thinking, and formulation of hypotheses all through the visualization of real data sets. Having it all based on a technology like R exposes students to an industry standard technology from day one, and the amount of "behind the curtain" information an instructor wants to incorporate is completely up to them. StatPREP will help instructors transform traditional teaching approaches to new, dynamic ones their students can get excited about.

JOE ROITH

Why would you recommend the virtual workshop?

While it's so wonderful to see and learn in person, a virtual workshop really allows participants to attend from the comfort of their own home. We can engage with both participants and presenters and create connections at a distance.

How has StatPREP changed you as an instructor?

StatPREP showed me that you can focus on topics and data rather than formulas and calculations.

What is an advantage of using the Little Apps both for you and your students?

Being able to use free resources such as the Little Apps has been so powerful. Using real data with such great visualizations has really helped student understand difficult topics in Statistics.

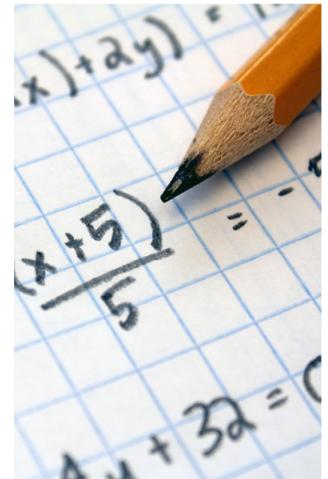


AMBIKA SILVA

WORKSHOP CALENDARS

JUNE

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	Data Science Workshop 12-3 ET	5
6	7	8	9	Little Apps Workshop 12-3 ET	Little Apps Workshop 12-3 ET	12
13	14	15	16	17	R Intro Workshop 12-3 ET	R Intro Workshop 12-3 ET
20	21	22	23	R Advanced Workshop 12-3 ET	R Advanced Workshop 12-3 ET	26
27	28	29	30			



JULY



SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	Little Apps Workshop 12-3 ET	Little Apps Workshop 12-3 ET
11	12	13	14	R Workshop 12-3 ET	R Workshop 12-3 ET	17
18	19	20	21	22	R Advanced Workshop 12-3 ET	R Advanced Workshop 12-3 ET
25	26	27	28	29	30	Data Science Workshop 12-3 ET

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