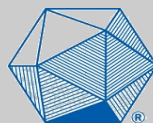


June 15,  
2020

# StatPREP



# MAA

MATHEMATICAL ASSOCIATION OF AMERICA

## NEWSLETTER

### NSF STEM FOR ALL VIDEO SHOWCASE 2020

BY KATHRYN KOZAK

StatPREP participated in the NSF STEM for All Video Showcase 2020. A video was created by the MAA and featured leadership of StatPREP, Hub Leaders of StatPREP, and participants in past StatPREP workshops. The Showcase took place from May 5<sup>th</sup> through May 12<sup>th</sup>, 2020. During the Showcase, StatPREP co-presenters responded to comments and questions posed by participants of the Video Showcase. The StatPREP video had 277 visitors from 216 locations around the world. All videos from 2015 through 2020 Showcases, including StatPREP's videos from 2019 and 2020, can be viewed at the NSF Multiplex, at the link <https://multiplex.videohall.com/>. A longer version of the StatPREP video can be viewed on the <http://statprep.org/> website under the tab called StatPREP video. The StatPREP leadership found the experience of making the video and participating in the NSF STEM for All Video Showcase 2020 a rewarding experience and wish to thank all those who contributed to the video and presented at the Showcase.

#### 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

Rachel Levy  
MAA

##### HUB LEADERS

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

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

Helen Burn, Highline Col-  
lege, Seattle, WA (2018-19)

Hwayeon Ryu, Elon Univer-  
sity, Elon, NC (2018-19)

Carol Howald, Howard Com-  
munity College, Columbia,  
MD (2019-2020)

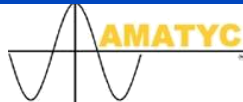
Thomas Kinzeler, Tarrant  
County College, Fort Worth,  
TX (2019-2020)

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

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



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# CREATING SUMMER VIRTUAL CONFERENCES

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BY DONNA LALONDE

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What virtual background should I use today? That's the question I ask myself to help minimize Zoom fatigue and to personalize my virtual experiences. Selecting a theme for the day and finding a picture to match the theme helps keep me sane. If you are interested in changing your virtual background, you might enjoy looking for images at <https://pixabay.com/>.

Selecting a virtual background is a first step. To support my summer learning, I decided to also create my own virtual conferences using available on demand videos. The focus of my first conference is scientific communication. You may have heard the NPR story about the #betterposter initiative. Michael Morrison a psychology graduate student created this video - <https://www.youtube.com/watch?v=1RwJbhkCA58> to encourage presenters to reconsider the traditional format of the research poster. He followed it up with a "how to" video for creating a twitter poster - [https://www.youtube.com/watch?v=fQDL8r3r\\_d4&feature=youtu.be](https://www.youtube.com/watch?v=fQDL8r3r_d4&feature=youtu.be). The last session in this SciComm conference is "Becoming an R blogger" a presentation from the 2020 rstudio::conf (<https://rstudio.com/resources/rstudioconf-2020/becoming-an-r-blogger/>). One post conference goal is to create a SciComm guide for undergraduates. If you have suggestions for resources, please share them in the StatPREP community.

I want to focus on professional development for my other virtual conference

and have selected the theme of creating a professional website. Of course there are a lot of options, but I decided to focus on using blogdown and github. The first session of this conference is the Introducing Blogdown webinar (<https://rstudio.com/resources/webinars/introducing-blogdown-a-new-r-package-to-make-blogs-and-websites-with-r-markdown/>). The second session will be "website+blogdown+github" presented by Danielle Navarro ([https://www.youtube.com/watch?v=8xYaKkW\\_LqU](https://www.youtube.com/watch?v=8xYaKkW_LqU)). The final session will be a webcast of an R Ladies workshop presented by Alison Hill (<https://webcast.csiro.au/#/webcasts/rladiesworkshop>).

If you decide to create your own virtual conferences, please share information on the StatPREP community on MAA Connect!

**Want more StatPREP? Check out:**

**<http://statprep.org/>**

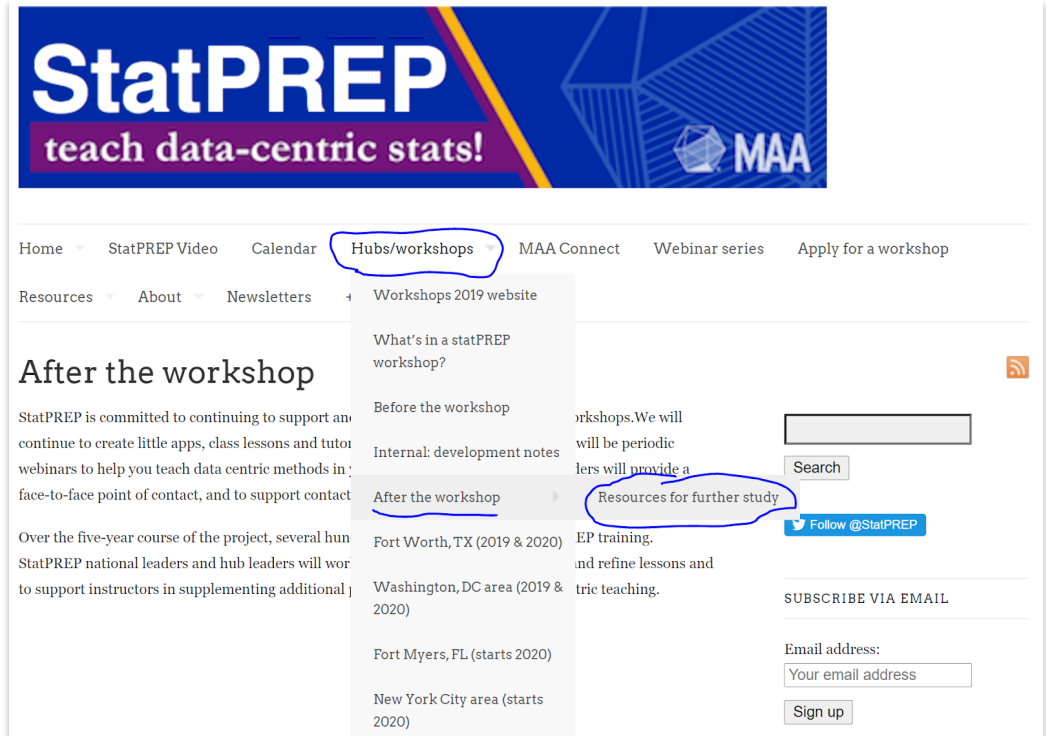
# DISCOVERING STATPREP.ORG - RESOURCES FOR SELF STUDY

BY AMBIKA SILVA

StatPREP is committed to continuing to support and work with instructors after the workshops. At <http://statprep.org/resources-for-selfstudy/>, you can find some resources for self study whether you have attended the workshops or not . You can also find it from the [statprep.org](http://statprep.org) website by clicking on the Hub/workshops tab, and then “After the workshop” section.

If you’d like to keep on learning about data science and modern statistics? There are some resources on this page.

- Looking for some summer reading? There are links to textbooks such as *R for Data Science*, by Wickham and Grolemund. This textbook is available free online, and strongly focused on R.
- Rather take a course than self study alone? Try [DataCamp.com](http://DataCamp.com), a company offering many interactive video plus exercise tutorials on a large variety of subjects relating to data science and statistics. Some of their courses are open without charge, some require a monthly membership, and there is a special plan for educators and their students.



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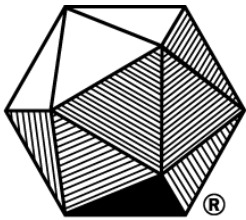
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## DISCOVERING STATPREP.ORG Continued...

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### Join the Discussion!

Have other resources for self-study that you think would be beneficial to the StatPREP community? Join the conversation online at [connect.maa.org/home](https://connect.maa.org/home).



**MAA**  
**CONNECT**

## Need Help Joining?

[Getting Started Guide](#)

[Getting Started Video](#)

[StatPREP October Webinar](#)

## PLANNING TO TEACH INTRODUCTORY STATISTICS?

### WE WANT TO HEAR FROM YOU!

The coronavirus has disrupted, well, everything, including the StatPREP Summer 2020 workshops. To help the StatPREP leadership team plan for the coming year, please take 3 minutes and respond to this survey: <https://www.surveymonkey.com/r/CBGTXRD>



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**ASA**

# UPCOMING EVENTS

There will not be a StatPREP webinar in June; however there is an opportunity for learning more about data centric statistics. This opportunity is that the [American Statistical Association](#) is conducting a **free workshop titled "Teaching Introductory Statistics in the 2020s: A Virtual Workshop for Two-Year College Educators"** on Monday, June 29 and Tuesday, June 30 from 12-4pm Eastern Time.

This workshop will focus on ideas and activities for teaching introductory statistics in accordance with the American Statistical Association's GAISE recommendations and "A World Beyond  $P < 0.05$ " initiative. Highlighted themes will include multivariable thinking, data fluency, misconceptions and limitations of p-values, and alternatives to p-values such as effect sizes. Presenters are Roxy Peck, Rob Gould, Danny Kaplan, Beth Chance, Jeff Witmer, and Kari Lock Morgan.

This virtual workshop is free, but advance registration is required. More information and a registration form are available at: <https://www.amstat.org/asa/education/tyc/home.aspx>

Please feel free to share this information with your colleagues who teach statistics.

Questions can be directed to Allan Rossman ([arossman@calpoly.edu](mailto:arossman@calpoly.edu)) or Rebecca Nichols ([rebecca@amstat.org](mailto:rebecca@amstat.org)).

## Featuring our own **Danny Kaplan!**

**"Multiple variables, One method, No login"**

**Abstract:** With an eye to the needs of next semester, I'll introduce the [StatPREP Little Apps](#), which use real, rich, multivariate data while fitting easily into an existing curriculum regardless of course text. And with the other eye on the "big picture" of adapting fully to the GAISE recommendations and taking seriously the ASA vision of a "post  $p < 0.05$  world," I will show how to introduce all the standard settings of statistical inference (e.g. difference of two proportions, difference of two means, regression, categorical counts) with a single, simple method which applies naturally to modeling with multiple explanatory variables. We'll use the [regression Little App](#), illuminated by the [Compact Guide to Classical Inference](#) to see how inference can be done with two formulas and the magic number  $2^{2^2}$ .

