

Spring 2020



Think Deeply of Simple Things

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Covid-19 Update

Dear Friends of Mathworks,

In this Spring Issue of ProofPoints, we describe the plans we had made for our summer 2020 programs. These plans are now on hold as we await guidance from the University for summer

camps because of Coronavirus COVID-19. We expect to have an update on April 10. Mathworks is continuing to accept applications, but will not be making any more admission decisions until we have further guidance from the university.

I hope you are all well and that we all come out of these trying times stronger than ever.

With warmest best regards,

Max Warshauer

Offering Free Downloadable Mathworks Curriculum

During this time when so many students are learning from home and parents/teachers are in need of additional math resources, we believe it is important to keep students engaged and on track towards success. In order to meet this need, Mathworks is now offering our Math Explorations school year curriculum and our Math Quest enrichment curriculum for FREE to all Students, Parents, and Teachers. The public will have to opportunity to download our free PDF curriculum by visiting our website now through June 15.

Free Downloads include:

Math Explorations Curriculum (Serves grades 6 - 8)

- Textbooks
- Student Workbooks
- Answer Keys ([by request](#))
- Teacher Edition Textbooks ([by request](#))

Math Quest enrichment curriculum (serves grades 4- 8)

- Student Workbooks
- Teacher Edition workbooks ([by request](#))

Math Magazines

- Math Explorer
- Math Reader

Video Tutorials

- Peer-to-peer learning

Math Camps Dates for 2020

Applications are open for summer 2020. With three camps to choose from, students at different levels can participate in a math program best suited for them. Apply today!

Junior Summer Math Camp Half-Day: JSMC-H (Grades 3 - 8)

- **June 8 - 19, 2020**
- [Find out more about the half-day JSMCH here](#)

Junior Summer Math Camp Residential: JSMC-R (Grades 6 - 8)

- **June 7 - 19, 2020**
- [Learn more about the residential JSMCR here](#)

Honor Summer Math Camp: HSMC (Grades 9 - 12)

- **June 21 - August 1, 2020**
- [Find out more about the HSMC here](#)

Mathworks Fellows Program

Our Mathworks Fellow Program will be held during the 2020 Junior Summer Math Camp. This camp will have 28 undergraduates Fellows who will assist in the JSMC classrooms. In the morning, the Fellows work in the JSMC classrooms under the supervision of their Master Teacher. Their role is to serve the students and assist the teacher as needed. In the afternoon, the Fellows engage in reflection and prepare for the next day's lesson. A one-hour daily seminar introduces the Mathworks Guiding Principles to the Fellows as they engage in relevant mathematics content and instructional practices for teaching.



ARE YOU INTERESTED IN GAINING CLASSROOM EXPERIENCE?

Consider being a Mathworks Fellow!

The Mathworks Half-Day Junior Summer Math Camp Half-Day (JSMC-H) program creates small learning communities of students, teachers, and faculty. This experience gives undergraduates the opportunity to gain valuable classroom experience while mentoring young students in mathematics.

JSMC will be held from **June 8 - 19, 2020** at San Marcos High School. Mathworks Fellows will be paid a stipend of **\$700**. You don't want to miss out on this exciting opportunity!

Daily schedule from June 8 - 19, 2020

- 7:30 am - 8:00 am Facilitate student check-in / breakfast
- 8:00 am - 12:00 pm JSMC Class Assistant
- 12:00 pm - 12:30 pm Facilitate student pick-up / lunch
- 12:30 pm - 2:30 pm Math Education Seminar

Apply Online Now!
www.txstate.edu/mathworks/fellows.html

Primary Math World Contest

The Po Leung Kuk Primary Math World Contest (PMWC) committee has decided to cancel the July 2020 competition due to the Coronavirus COVID-19 pandemic.

Although, the PMWC Competition has been cancelled we would still like to congratulate the following students on being selected to represent the San Marcos Team at the PMWC.

Team Members for the 2020 PMWC:

- Katherine Liu, Sugar Land, TX
- Jason Mao, Towaco, NJ
- Jessie Wang, Allen, TX
- Alex Zheng, Plano, TX



Research News

In February, Cody Patterson and Hiroko Warshauer attended the annual conference of the *Association of Mathematics Teacher Educators* (AMTE) to make a presentation, “Many Perspectives, One Vision: Learning to Respond to Student Thinking by Reflecting on Shared Experiences,” in Phoenix AZ. The study focuses on the *Junior Summer Math Camp Professional*

Development (JSMCPD).

The *International Congress of Mathematics Education 14* (ICME 14) planned for July, 2020 in Shanghai China has been postponed to 2021. Several presentations using the Mathworks math camps as settings are co-authored by Mathworks faculty, Max and Hiroko Warshauer, and graduate students Michael Hicks and Christina Koehne. The study by Christina focuses on prospective teachers and their participation in the Junior Summer Math Camp. Michael, Max, and Hiroko focus their study on the Honors Summer Math Camp and students who attended. A former Mathworks master teacher and Texas State PhD graduate, Christina Starkey, co-authored with Hiroko Warshauer and two other former Texas State doctoral students, Christin Herrera and Shawnda Smith, two ICME14 presentations on prospective teachers' understanding of productive struggle.

Welcome to the Mathworks Team



Mathworks is excited to welcome Kaelie Garcia to the Mathworks Team. As a Program Specialist, Kaelie will support our Public Relations and Marketing needs as well as serve as the lead coordinator for our Half-Day Junior Summer Math Camp and support our curriculum sites. Kaelie received her Bachelor's degree from the University of Texas at San Antonio in Business Administration with a concentration in Business Management. Kaelie's experience attending an advanced Math and Science summer program during Middle School allows her to appreciate the mission of Mathworks and relate to the students we serve.

Mathworks Alumni Stories



Daphne Han

“I first heard about Mathworks in 2015 when my parents and I were trying to find a program or camp for me to pursue my math interest outside of school. I had no idea then that this camp would impact my life so much. I attended JSMC-Residential for 3 years and HSMC for 2 years and I will be returning as a JSMC counselor and HSMC 3rd year for the summer of 2020. I come from an area that has a lack of STEM support and interest, especially in math. It was especially difficult for me to find local opportunities to be able to dive deeper into math outside of school. The camp curriculums were pretty difficult for me as I had never come in contact with that sort of math before and I was very self-conscious about my own mathematical abilities. However, the mentors and friends I met at camp have significantly shaped me and my math journey. Meeting these incredible and brilliant people (many of whom I am still in touch with and are very close to) from all around Texas and outside of Texas inspired me to work harder and to push myself and break the limits and bounds that I previously set on myself. I realized how incredibly lucky and privileged I am to be able to attend summer programs so I recently started up a free middle school math program to increase STEM interest in my community and improve math literacy. Mathworks has give me opportunities to extend my own privilege to those in my community and to be able to directly impact those who are younger than me. Although I have not decided what career path I want to follow, I know that I want to be able to find a way I can make an impact on my community in the most direct way possible. My advice for anyone who has applied for a Mathworks camp or wants to apply is to be genuine and be yourself. In my opinion, this program focuses less on awards and achievements, but rather your passions and what you intend to do with those passions. I encourage everyone to try to solve a problem in their community, no matter how big or small-- you will be changing someone's life for the better.” - Daphne Han



Hannah Guan

“Mathworks camp had a huge impact on my life. Growing up in San Antonio, where the majority population is made up of minorities, I have observed many consequences of social and income inequality. We don’t have the same access to educational resources as others. The camp taught me to turn my passion from math to a mission to help young students get educated. Returning from the camp, I founded San Antonio Math Include (SaMi), a non-profit organization to include all students from different cultures, backgrounds, and experiences to help them achieve their success in math. I started SaMi with only six peer tutors, 68 students, and zero funding. In two years, I led SaMi to grow into 40 peer tutors and 1739 students from 117 schools. We currently offer 131 online classes. In 2019, I received the President Volunteer Service Award, Gold Medal. In 2020, my story was featured in Kids Who Make San Antonio Great by KENS5. [Here is the video](#). Mathworks camp has also broadened my understanding of math. Math includes both theoretic and practical parts and is widely applied in other fields, such as biology and computer science. After the camp, I started to apply math to my genetics research and participate in Science Fairs. In 2019, my research project won First Place Grand Prize in Alamo Area Regional Science Fair, Best of Category in Computational Biology and Bioinformatics in Texas Science and Engineering Fair, and Broadcom MASTERS Top 30 from 80,000 projects in science fairs in the U.S.” - Hannah Guan



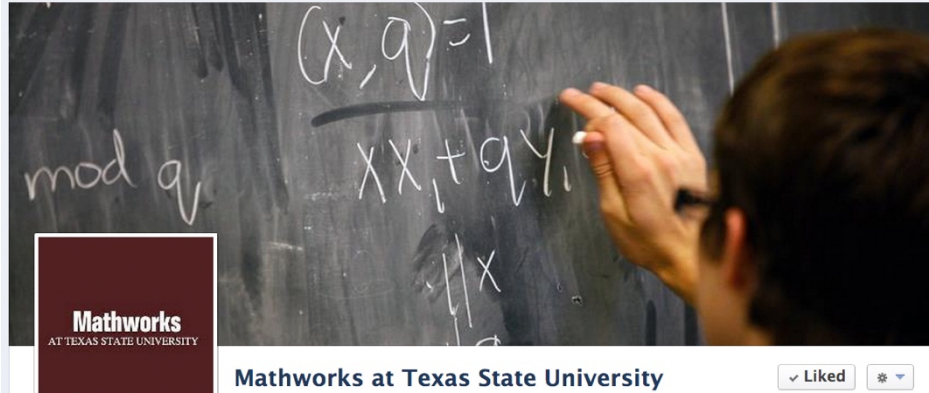
[A Parent's Perspective](#) "He found his happy place! He rarely called me during his 6 weeks at camp because he was so engrossed in the "community" that the Texas State Honors Math Camp (HSMC) provided. When I picked him up from camp on the last day, I saw over 10 kids embracing him with tearful goodbyes. It was a very moving sight for this mama! I honestly had reservations at first about sending my boy to 6 weeks of a "math" camp for the summer. In my mind, summers are supposed to be for exploring, hiking, swimming, playing basketball, 4th of July parties, pulling all nighters with friends, etc. I thought this little dude is going to be sitting at a desk ALL summer long doing nothing but math-this can't be a healthy or fun way to spend the summer. Well, once again I WAS WRONG! He had an opportunity to experience exactly ALL of those things in the summer! They went hiking at Enchanted Rock, visited the Witte museum in San Antonio, played in basketball tournaments, learned frisbee golf (or some kind of game involving a frisbee), stayed up all night eating Ramen noodles they bought at HEB and basically being a teenager enjoying their summer. This aspect of camp, solidified the importance of exercise in your daily routine. Lastly is the curriculum, he was challenged in thinking outside the box and it expanded his interest in theoretical mathematics and computer science. He had a chance to explore more deeply math concepts that he'd been researching on YouTube and many concepts he had never heard of before. " - Christina Johnson

Mathworks 2020 Sponsors

- HEB Tournament of Champions \$16,000
 - Austin Community Foundation \$49,000
 - AMS Epsilon \$9,000
 - San Marcos Lions Club \$2,000
 - Sarah Yager \$4,800
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Receive instant news updates, connect with other alumni, and check out fun math topics!



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