

Spring 2019



Think Deeply of Simple Things

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Mathworks Is Turning 30



30 Years of Excellence in Mathematics

In 2019, Mathworks will celebrate its 30-year anniversary. Mathworks began with its first summer math camp in 1990. We are planning special events in 2019 to commemorate the successes of our students and plans for the future. We invite you to come and celebrate with us. You can book online to attend the events, order t-shirts and a memory book. If you make plans soon you can take advantage of special room rates at the Embassy Suites, San Marcos. Use guest code "MTW". We hope to see you there! Please visit the site below to celebrate Mathworks 30th.

Click here: <https://www.txstate.edu/mathworks/about/news/2019-Mathworks-Celebrates-30th-Anniversary.html>

Mathworks 30-year Celebration Events

Thursday, July 4, 2019

Fajitas at The Warshauer Home 5:00 - 8:00 pm

Fireworks at San Marcos Plaza Park 9:00 pm

Friday, July 5, 2019

Check-in	10:00 am - 12:00 pm
Lunch	12:00 pm - 1:30 pm
Alumni Panels	1:30 pm - 3:55 pm
Colloquium	4:00 pm - 5:15 pm
Light Hors d'oeuvres	5:15 pm - 6:00 pm
Banquet	6:30 pm - 8:00 pm

Saturday, July 6, 2019

Tubing the San Marcos River 10:30 am - 12:00 pm

Picnic at Rio Vista Pavilion 12:00 pm - 2:00 pm

Math Camps Dates for 2019



Applications are open for this summer's math camps. With three camps to choose from, students at different levels can participate in a math program best suited for their experience and background. Don't miss out on the fun; now is the time to apply.

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

- **June 10th - June 21st, 2019**
- [Find out more about the half-day JSMCH here!](#)

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

- **June 9th - June 21st, 2019**
- [Learn more about the residential JSMCR here!](#)

Honor Summer Math Camp: HSMC (Grades 9 - 11)

- **June 23rd – August 3rd, 2019**
 - [Find out more about the HSMC here!](#)
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Mathworks Fellows Program

2019 Junior Summer Math Camp will have over 20 undergraduates participate as assistants in the JSMC classrooms. The undergraduates work in the JSMC classrooms every morning under the supervision of their Master Teacher. In the afternoon, the Fellows engage in reflection and preparation for teaching. 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 in general and at JSMC, in particular.



ARE YOU INTERESTED IN GAINING CLASSROOM EXPERIENCE?

Consider being a Mathworks Fellow this summer!

The Mathworks Junior Summer Math Camp (JSMC) creates small learning communities of students, teachers, and faculty while giving undergraduates the opportunity to gain valuable classroom experience and to work with students.

JSMC will be held from **June 10 - 21, 2019** 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 10 - 21, 2019

- 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

DEADLINE FOR APPLICATIONS IS APRIL 5

Primary Math World Contest (PMWC)

22nd Competition 2019

A team of four students have been chosen to participate in the Primary Math World Competition (PMWC) in Hong Kong. At the PMWC, they will compete against students from around the world in this challenging mathematics contest. This team will represent the United States in the Po Leung Kuk as the San Marcos Mathworks Team.

Our Team Members for the 2019 PMWC are:

- Anne Christiono, Sugar Land, Texas
- Tina Li, Sugar Land, Texas
- Eric Peng, Missouri City, Texas
- Christopher Qiu, Bridgewater, New Jersey

We would also like to recognize our Team Leaders. Dr. Hiroko Warshauer, the Team Leader, is an Assistant Professor of Mathematics at Texas State University. Genesis Dibrell, the Deputy Team Leader, is the Outreach Coordinator at Mathworks, Texas State University.



Research & Publications

Graduate Students plan Summer Research

Mathematics Education and Mathematics graduate students will teach and conduct research at this year's Junior Summer Math Camp (JSMC). The six graduate students

will teach Level 4 and Level 5 classes at JSMC and examine how their students think about the mathematical concepts they are learning. Using research methods, the graduate students can investigate students' mathematical thinking around topics taught at JSMC including combinatorics, probability, logic, and geometry. Findings can inform our instructional design and implementation.

Welcoming new Faculty, Staff, and Student Worker

Faculty

Mathworks is excited to announce that two new faculty members will join the Mathematics Department in August. Both new faculty attended the Mathworks Honors Summer Math Camp (HSMC) while in high school and then returned as counselors for seven or more years. They are outstanding teachers and researchers who will provide Texas State undergraduates and graduate students with keen insights about teaching and learning mathematics. They will help carry on the Mathworks traditions of exciting all young students to do mathematics at a high level. We are so happy to welcome them to Mathworks and the Math Department.



Cody Patterson - Received his Ph.D in Mathematics from the University of Texas at Austin in 2010 after receiving a BS and MS in Mathematics from Texas A&M. Cody attended the Mathworks HSMC from 1998 to 2016 and has also taught courses in both the JSMC and HSMC. Cody was a past head of the national Math Counts problem writing committee, and a contributor of many problems to the state-adopted Mathworks "Math Explorations" middle school curriculum. He brings his experience directing the Institute for Mathematics and Education at The University of Arizona and his teaching experience from the University of Texas at San Antonio where he has been an Assistant Professor since 2015.



Will Boney - Received his Ph.D in Mathematics in 2014 from Carnegie Mellon University after receiving a BA in Mathematics from Grinnell College. Will attended the HSMC from 2001 to 2008 as a student and counselor, as well as providing help in working on the Mathworks "Math Explorations" curriculum. Will was an NSF Mathematical Science Postdoctoral Research Fellow at the University of Illinois at Chicago, which he then transferred to Harvard where he has been a Benjamin Peirce Fellow for the past 4 years.

Staff

Genesis Dibrell - My name is Genesis Dibrell. I am a 2013 (*Terry Scholar) who graduated in December 2018 with a degree in education, specializing in middle school math, and a minor in theatre. I have always had a passion for helping others, and I found that I could help in the way of providing a quality education. After graduating, I came to work at Mathworks, where I had already worked during the entirety of my undergrad. I am excited to be back in a place where I can help students and teachers grow in their mathematical confidence and abilities! I grew up in San Antonio, Texas, which is home to the best breakfast tacos, the Spurs basketball team, and some enticing art and culture. I enjoy traveling and have already visited Mexico and Cambodia. That being said, I cannot wait to join the team in Hong Kong this year! In my free time, I like to play with my dog, read and write, and make things like furniture and clothing.

Student Worker

One of Mathwork's greatest assets is our talented and hard-working student workers. They give 110% of themselves and are incredibly dedicated to making sure our summer camps run smoothly. Meet the newest addition to our group:

Cristina Rodriguez: - I am a 2017 (*Terry Scholar) so this is my second year attending Texas State University. I am currently a Chemistry major and a Forensic Psychology minor hoping to someday be a scientist! I was born and raised in Wichita Falls, Texas and like to paint in my free time! I am very excited to have joined the

Mathworks team!

***Terry Scholars:** Terry Scholars are distinguished by a deep-rooted desire to enrich the general welfare of the community and an established record of leadership. In order to select Scholars with the greatest potential for success, the Foundation's selection committees focus on candidates with a demonstrated history of involvement in activities, outstanding scholastic achievement and a well-rounded personality marked by a desire to succeed.

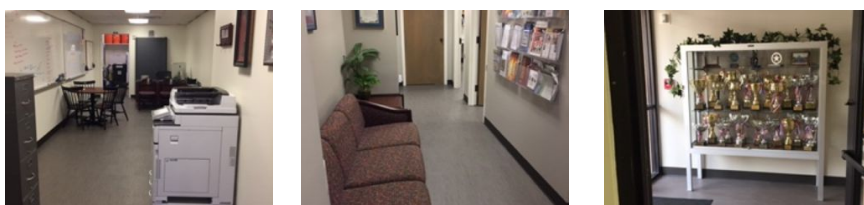
Mathworks office receives a facelift

We received a much-needed facelift in the Mathworks office. Before and after photos show our great progress. This is our year to shine.

Before:



After:



It is amazing what a little paint and new flooring can do!

Mathworks Kudos Korner



We are so thankful to get feedback from parents, students, teachers and staff. We received a letter from a mom about how Mathworks has helped her son.

"He came home yesterday and told me he took a MOY Benchmark test and his teacher told the class to just ignore the coordinate plane section but he said he knew all the answers from Mathworks. I thought you guys might like to hear that."

-Melanie H.

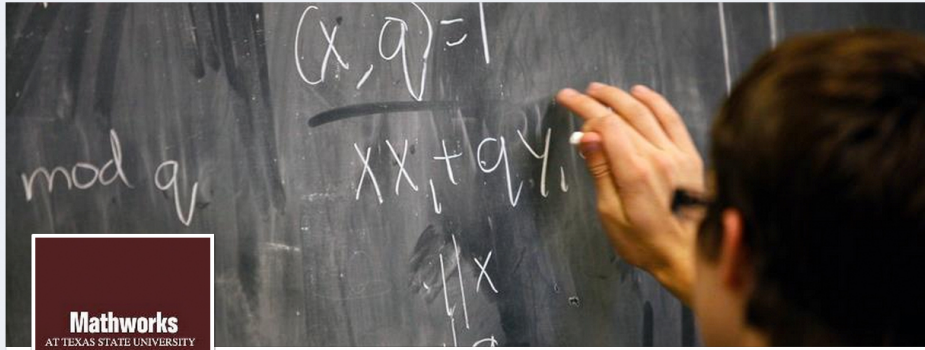
Remembering our Friend, Sam Baethge



Sam Baethge passed away on March 8, 2019. He will be remembered as a dear friend and a gifted math instructor. Sam was a retired secondary math teacher and former coach for many years of the Texas [ARML](#) team (American Regions Math League) that competes in a national math competition each year. He was a wonderful problem writer who contributed numerous problems and suggestions to the state-adopted Mathworks "Math Explorations" curriculum. Sam wrote problems for numerous math competitions, including the Mathworks Math Contest that is given each year to help pick the Mathworks team that competes in the Primary Math World Contest (PMWC). He was a leader in helping Mathworks put together the Mathworks Junior Summer Math Camp (JSMC) residential program that prepares our PMWC team. He was one of the first team leaders for this PMWC team, traveling with the team to Hong Kong where he met with math coaches from throughout the world. His ability to write challenging mathematical problems gave the students tremendous practice for this event. He had a special love for creating beautiful geometry problems that still challenge and excite young students each summer in the Mathworks JSMC. Sam had wonderful stories that he loved to talk about, and keen insights about creating problems that required thinking outside the box. Mathworks sends heartfelt condolences to the family. He will be greatly missed.

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Receive instant news updates, connect with other alumni, and check out fun math topics!



Mathworks at Texas State University

✓ Liked



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