

THE UNIVERSE

Serving the Brigham Young University Community



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Human remains are excavated by a forensic scientist. Forensic genealogy has allowed law enforcement to identify victims, but some fear the practice violates privacy.

Forensic genealogy brings privacy concerns

Fourth in series



By ANNE WALLACE

London resident Debbie Kennett's journey to becoming a highly trusted specialist in the field of genetic forensic genealogy, and later even an honorary research associate at the University College London, was something she did not plan or expect.

She started as a hobbyist who simply wanted to find out more about her unusual maiden name, Cruwyz. She joined the Guild of One-Name Studies, a group of family historians that focuses on researching one specific last name, as opposed to particular ancestors of an individual.

When Kennett joined in 2007, the latest trend was a newer form of DNA testing called Next Generation Sequencing (NGS), or massive parallel sequencing. Rather than just finding matches in DNA like the earlier and more well-known genotyping tests, NGS had the

ability to reveal information about an individual's ancestry, genealogy and even appearance. NGS is the kind of test companies like AncestryDNA or 23andMe run on cheek swabs or saliva submissions to reveal consumer's ethnic roots, along with other genetic information.

Over time, Kennett would take each new and more precise NGS test as it became available to the public. Because of this, she became a recognized name within the genetic genealogy community. She has received so many questions about her work that she created a genetic genealogy Wikipedia page that she continues to manage.

In an effort to combat misinformation about DNA testing, Kennett got involved with the University College London and was granted an honorary position, which eventually led her into forensic genealogy.

"I would define genetic genealogy as the use of genetic tests as a tool for family history research," Kennett told The Daily Universe in a Skype interview. "Forensic genealogy is just an extension of what we are doing there. The only difference is that instead of providing the DNA sample from a living person, the sample is coming from someone who is deceased or from a crime scene."

The recent increase in the use of forensic genealogy led most notably to the capture of the Golden State Killer,

Joseph James DeAngelo, in 2018. Investigator Paul Holes partnered with genetic genealogist Barbara Rae-Venter and uploaded DNA data taken from crime scenes in the '70s and '80s into an online database called GEDmatch, which stores DNA files and allows people to voluntarily upload their completed NGS test results to find relatives who have also completed DNA tests taken through different companies.

Holes and Rae-Venter used the database to narrow down their suspects, to eventually catch up with DeAngelo and to take a DNA sample from him that matched archived samples from the Golden State Killer. After decades they had finally found him. This particular case, being incredibly high profile, launched forensic genealogy into the spotlight and revealed its usefulness. According to Kennett, over 100 cold cases have now been solved using forensic genealogy.

While the tool has proven its efficacy, Kennett shared concerns regarding the process and the steps that justice officials in the United Kingdom are taking to regulate the process. "We have two biometrics commissioners, a forensic science regulator and a biometrics and forensic ethics group," she said. "They must give approval before we use these methods."

She contrasted this with the United States' process that has gone forward

largely unregulated until 2019 when the Department of Justice instituted some interim policies regulating forensic genealogy before more permanent regulations can be put into place.

According to Kennett, a significant issue with the process is that there are no official qualifications for genetic or forensic genealogists. "There are all sorts of people who are trying to jump on the bandwagon," she said. "While we've got some people who are doing a great job, there are others who aren't necessarily following the best methodology and may end up getting things wrong."

Despite her concerns, Kennett hopes forensic genealogy pushes forward and continues to advance, and hopefully, reaches a point where a universal database could reach virtually anyone via a second or third cousin. "It's far less invasive than having a basic fingerprint test done or your Facebook accounts searched," she said. "It's a case of whether or not the end justifies the means."

One group taking full advantage of the new technology is the Utah Cold Case Coalition, which is currently building the United States' first nonprofit forensic lab: Intermountain Forensics. Their vision is simple: the power of forensic DNA should never allow a victim's justice to go cold.

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BYU researchers to study religious OCD

By ALICIA MATSUURA

Elizabeth Patterson never imagined herself struggling with obsessive compulsive disorder (OCD) until it became a reality while she served a full-time mission. Her fixations were centered on doing what she thought was right, focusing on certain rules in the missionary instruction handbook and striving for extreme perfectionism.

"I was stressed all the time. I struggled to feel happy and find purpose. I hurt my relationships with other people," Patterson said.

Patterson realized she was struggling with scrupulosity, a form of OCD that manifests itself through an obsession with moral and religious issues.

"I would always say, 'We need to do what's right,' and my companions would always say, 'Chill! We need to follow the Spirit!' The Spirit prompts us to do what's right, but I just stopped listening," Patterson said.

Patterson is one of many BYU students who has dealt with scrupulous thoughts and behavior. BYU psychology and neuroscience researchers recognized the need to better understand this phenomenon.

Kawika Allen is an assistant psychology professor and a scrupulosity researcher at BYU. He has conducted studies exploring scrupulosity in relation to legalism (the notion one has to earn God's love to be worthy), family perfectionism and well-being among Latter-day Saints.

Last year, BYU neuroscience department researcher Jared Nielsen approached Allen and invited him to participate in a new study to detect where scrupulosity is being activated in the brain. The project is currently in the works and the plan is to have around 30-40 subjects with scrupulous tendencies to go through an MRI scan. Researchers will then observe whether there's a consistent, localized area where scrupulosity is coming from.

"It may not tell us how it's caused, but we can know where it's coming from in terms of the location in the brain," Allen said. "We suspect it's somewhere just above the fornix area around the limbic system of the brain."

The research team consists of Allen, Nielsen, licensed psychologist Debra McClendon, and students Benson Bunker, Eli Baughn and David Johnson. The team is in the process of conceptualizing the project.

BYU psychology major Bunker joined Allen's research team a year ago. Bunker believes many individuals who struggle with scrupulosity don't know what it is or how they can overcome the symptoms attached to it.

For the upcoming research project, his responsibility has been to compile a list of questions designed to trigger scrupulous thoughts. One of the main tasks subjects are expected to do is read and answer to The Church of Jesus Christ of Latter-day Saints' previous temple recommend interview questions.

According to Allen, the black-and-white dichotomy of the old interview questions tend to invoke scrupulosity in individuals more.

"The new questions are much better in terms of the language. The words are softer and in three of the questions, they include the word 'strive' so it's not an absolute 'are you or are you not,'" Allen said. "We're using the old questions because that's what invokes scrupulosity more."

When considering the well-being of scrupulous individuals, Allen believes the change of wording in the temple interview questions was a step in the right direction.

"I think the brethren and leaders of the church were inspired to change the interview questions because they know we're human, that we're imperfect and we have flaws," Allen said.

Provo City Council asks "To brew or not to brew?"

By HANNAH PETERSEN

The Provo City Council currently faces a dilemma between economic development and community values after residents requested a change in a land-use ordinance to allow brewery pubs to open shop downtown.

On Tuesday, Jan. 21, Quinn Peterson, the neighborhood chair for downtown Provo, expressed to the council his and other business-owners' desires to allow onsite brewing of beer. The current language of the ordinance for the land's use only allows already packaged and shipped alcohol to be served. It does not allow onsite brewing of alcohol to be created or served.

Peterson said he was motivated to bring the issue before the city council because Provo has had a "history of interested businesses, and they've been turned away in the past."

Peterson also said that the owners of MOZZ Artisan Pizza, Jared Neiswender and Erin Henriod, had said they wanted to open a brewpub as a second business. Neiswender hoped that if the land-use ordinance would be changed "and the numbers pencil out as a viable business option," they would open an equally successful business venture.

"This project is merely a sign of Provo's growth and development. Our



Emma Willes

Customers sit at the bar and watch the Super Bowl at Strap Tank Brewery in Springville. The Provo City Council is considering allowing a similar brewery in Provo.

brewery would be one that will happily accommodate families and certainly people who do not even drink," Neiswender said. "We are building a high-quality, food-focused restaurant group as exhibited through MOZZ and our consistently high ratings and reviews."

Residents are divided into two camps of opinion. Councilors and residents questioned if allowing an alcohol-focused restaurant to open up downtown would create more hazardous public safety. Those in support of the change argued that any other restaurant downtown would be allowed to serve

similar quantities of alcohol because they imported their beer instead of brewing it onsite.

"Boutique beers are not and should not be the thing that makes Provo unique," Provo resident Steve Christiansen said. "A person's positive Provo experience shouldn't be based on its variety of alcohol."

He went on to remind the council and the Provo Planning Commission that Provo culture is different than the culture found in other American communities.

"Sure we'll accept micro-breweries,"

Christiansen said. "Awkwardly. Gracefully. But it's not our culture."

Other residents expressed concerns that adding another pub to downtown Provo would increase alcohol-related crimes. Provo resident Diane Christensen shared the personal tragedy that alcohol consumption caused her and her family nearly 40 years ago when her brother was killed in a car accident, even though the amount of alcohol the guilty party consumed was below the legal limit at the time.

She and other residents, as well as city councilors, discussed statistics of alcohol-related injuries and death as well as addiction.

"We are not talking about a tavern. We are not talking about a bar," Council Chair George Handley said. "It's not significantly different from a restaurant, but it is significantly different from a bar."

Handley went on to ask why the proposal is requesting to brew onsite if they aren't going to be allowed to serve more than the licensed amount of alcohol any other restaurant would serve.

Peterson said, "Part of the alarmist reaction has been the (word) alcohol." He went on to explain that the micro-brewery would specifically sell craft-man beer only and not other alcohol products like wine or hard-liquors.

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UNIVERSE news briefs

FROM THE ASSOCIATED PRESS



UN declares global emergency

The World Health Organization declared the coronavirus outbreak as a global emergency last week after the number of cases spiked more than tenfold in a week.

The U.N. health agency defines an international emergency as an "extraordinary event" that constitutes a risk to other countries and requires a coordinated international response.

China first informed WHO about cases of the new virus in late December. China has reported more than 20,438 cases, including 780 deaths.



Utah medical marijuana program on track

Utah's new medical marijuana program will launch on time in the coming weeks, with one or two dispensaries expected to open the first week of March, when people can begin getting patient cards that will allow them to legally buy the drug in the state.

Officials expect demand to also be low to start out because patients will need to get cards before they can buy the drug. They are planning for eight dispensaries, known as pharmacies in Utah, to be open by July.



Chiefs eyeing Super Bowl repeat

It took the Chiefs five full decades to bring the Lombardi Trophy back to Kansas City. With confetti still swirling and their thrilling Super Bowl triumph over the San Francisco 49ers mere minutes old, most of the Chiefs were already talking about next season.

They got a taste of reaching the AFC title game last season and now that they've had a taste of winning the championship this season, the organization's mindset is quite simple: Why stop at just one?



US states join push to ban animal-tested cosmetics

A growing number of U.S. states are considering a ban on the sale or import of cosmetics that have been tested on animals, as advocates argue testing products such as lotions, shampoos and makeup on rabbits, mice and rats is cruel and outdated.

The cause has gained support from consumers and many cosmetics companies, but the biggest hurdle is China, which requires that cosmetics sold in its large, lucrative market undergo testing on animals.



Fed leaves key rate unchanged

The Federal Reserve has kept its key interest rate unchanged at a low level amid an economy that looks solid but faces potential global threats, including China's viral outbreak. The Fed sketched a mostly bright picture of the U.S. economy in the statement it released after its latest policy meeting. Yet it also cautioned that it would "monitor" the world economy, which could be slowed by China's coronavirus - a risk that Chairman Jerome Powell mentioned at the start of a news conference.

BYU programs inspire businesses with social impact

By ERIKA MAGAOAY

BYU alumnus Davis Smith wanted to keep the commandment "to love your neighbor" and made a New Year's resolution to do so. The night he set that goal, idea after idea came to him, and Cotopaxi was born.

The company has provided 42 grants in six countries, contributing a total of over \$1 million in 2019 to five nonprofit organizations according to Cotopaxi's year in review journal.

Many BYU alumni like Smith are finding ways to give back in their careers, and BYU played an important role in inspiring and

helping them do so.

Smith grew up in South America, where his desire to help others was born. When he moved back to the United States and attended BYU, he learned more about events happening in other countries, helping him better understand how to make a difference.

"My BYU education opened my eyes to what was happening in the world," he said.

Smith specifically recalled a class in the entrepreneurship program that inspired him. "I remember one of the people who came and spoke to us said it doesn't matter what kind of business you grow," he said. "It's amazing because you're building

something, creating something that's your own. To build, create, is an incredible feeling."

Recent BYU graduate Keegan Darby has a similar story to tell. He originally chose to study entrepreneurship because of his desire to build and create but didn't have a particular business idea in mind that he wanted to pursue.

Then on a trip to the Philippines, he was shocked by the poverty of the people and inspired by the local artisans who crafted jewelry for a living. "It's really sad because they're working so hard," he said. "They don't have a lot, yet they're extremely happy and joyful."

Darby, drawn to the people

and impressed by their craftsmanship, developed the idea for Zubu Bracelets. The second time he went to the Philippines, he brought back around 400 bracelets crafted by the Filipino artisans. He sold them to local boutiques in Utah and set up an online shop for people to purchase them.

"They were a huge hit," Darby said. "Coming from a business background and thinking that way, it was the margins that made a lot of sense. But more than anything, I was trying to figure out how to have an impact."

At the time, Darby was still in the entrepreneurship program, which was valuable as he began to grow his business.

"The mentality of the program I thought was really special and unique," he said. "We obviously are here to financially provide for our families and build the kingdom of God first and foremost, but also to have an impact. And if you're able to mount those two together, that's when you can create something really special."

Now, for every 100 bracelets ordered, Darby is able to provide a job for someone in need in the Philippines.

Scott Petersen, the executive director of the Rollins Center for Entrepreneurship and Technology, explained that though the center's purpose is to assist students in starting businesses, they also focus on teaching students to pay it forward. "When we're in a position to give back, we should give back," he said. "That's why one of the biggest parts of our program is teaching values."

According to Petersen, the most popular segment in the class he teaches is his lecture on how he measures success. He



Davis Smith

BYU alumnus Davis Smith is the founder of Cotopaxi, a leader in social impact business.

emphasizes the values of family, faith and ongoing learning, which he believes are important modes of giving back to society. Peterson said giving back is done in a variety of ways. "Doing one (thing) by itself isn't enough, really all of them collectively is what makes us better human beings," he said.

The Rollins Center for Entrepreneurship and Technology isn't the only place helping students make a difference; the Ballard Center for Social Impact also brings together students, faculty and professionals to make a social impact.

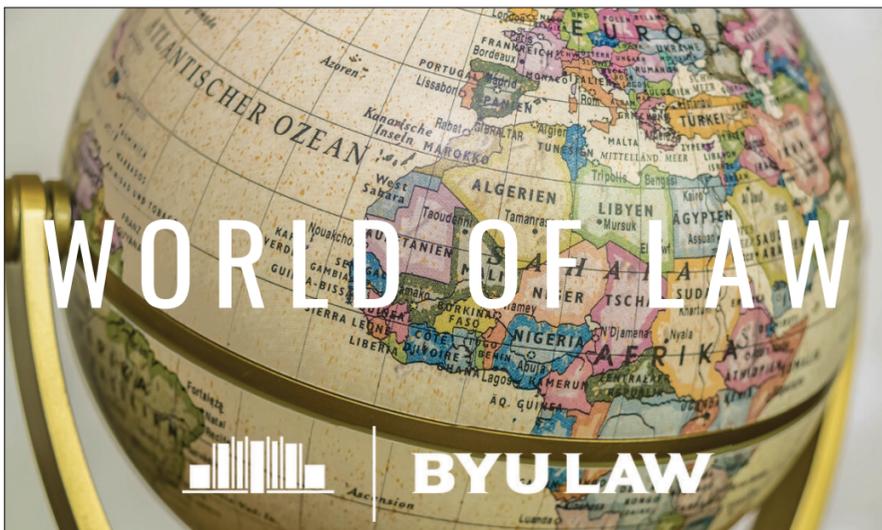
Last year alone, 2,900 people were involved with the center according to Director of Communications and Operations Alicia Gettys. "We've had student teams give back to homeless veterans, help empower those with

various disabilities and create a product for those in wheelchairs," she said.

Gettys invited students looking to start their own business for a social cause to join the Ballard Center for Social Impact's program, Social Venture Academy, which offers both support and funding.

"Donors are giving to the Ballard Center to give to students to give back," Gettys said. "Students can receive consulting and cash to make their dream a reality."

Smith advised students to stay committed to their desire to give back and to trust God in the process. "Be patient," he said. "Every single day ask the Lord and seek ways to do good and know that He will give you experiences throughout your career that will empower you to do so."



February 12, 2020

World of Law allows undergraduates to hear BYU Law professors present monthly on a variety of law-related topics. Each presentation is hosted at the BYU Law School.

Constitutions Around the World



Professor Justin Collings

JRCB Room 472

4:00 - 5:00 PM

Pizza will be served!

Professor Justin Collings is a scholar of constitutional law, comparative constitutional law, and constitutional history. His first book, *Democracy's Guardians: A History of the German*

Federal Constitutional Court, 1951-2001, was published with Oxford University Press in 2015. His second book, *Scales of Memory: Constitutional Justice and the Burdens of the Past*, is scheduled to be published by Oxford University Press in 2020. From January to June 2019, Professor Collings was a Fulbright-Schuman Fellow based at the European University Institute in Florence, Italy.

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Missionary response to Coronavirus outbreak



Ann Wilks Taylor

Missionaries arriving to the Korea Seoul Mission wear masks to help protect against the coronavirus infection

By KENZIE HOLBROOK

Missions around the world are taking the necessary precautions to ensure health and safety in response to the recent outbreak of coronavirus in Wuhan, China.

A news release by The Church of Jesus Christ of Latter-day Saints stated, "We are closely monitoring the situation with the coronavirus and are in regular contact with medical professionals and experts on this issue."

Information is being distributed to missions and parents of missionaries in areas that could be affected by coronavirus.

According to an article by CNN, the areas outside of China that have been most affected by the virus are Southeast Asian countries; Taiwan has had at least 10 cases of the Coronavirus, South Korea at least 15 cases, Malaysia at least eight cases, Japan at least 20 cases, Hong Kong at least 15 cases and Thailand at least 19 cases as of Feb. 3.

Taipei Taiwan Mission President Michael L. Peterson said that they are keeping in touch with government information in Taiwan and passing it onto their missionaries.

"I am not worried," President Peterson said. "I am cautious and want the missionaries to be cautious. The winter cold is going around and so missionaries who have caught that are naturally a little nervous that they may have caught the virus, but the truth is that Taiwan is very under control."

President Peterson said that unlike Hong Kong, the virus has not been a big issue in Taiwan because of the country's proactive actions to prevent it.

"We all feel Taiwan is a safe place and are being very cautious during this time. If the situation worsens, then we will take additional measures," President Peterson said.

Karen Nelson's son, Bryson, is serving in the Taipei Taiwan Mission, and she said she's not worried.

"President Peterson has been very good about communicating with us as parents and keeping us updated on the situation here," Nelson said.

On Jan. 30 in the Korea Seoul Mission, President Bradford Taylor and his wife, Sister Ann Taylor, welcomed new missionaries at the airport with face masks.

"We have required all of our missionaries to take high doses of Vitamin C daily to boost their immune systems," Sister Taylor said. "They have also been counseled to wear a mask when traveling in crowded places such as airports, subways, buses and trains. Our missionaries are always instructed to wash their hands frequently and drink lots of water and we are emphasizing that now more than ever."

Brooke Jeppson said her son Dylan, a missionary in Malaysia, told her that it seems that half of the population in both Malaysia and Singapore are wearing masks. However, when asked by some missionaries if they could wear them, Dylan's mission president said no because they would look unapproachable. He said if it gets out of hand and they

feel like the missionaries are in danger, then they will reevaluate.

In an email to Jeppson, Dylan said, "I am not scared of getting this virus. Where I am serving in East Malaysia, there has only been one case noted."

In the China Hong Kong Mission, the missionaries have been required to wear masks every day.

"Recently the missionaries were told to stay inside unless they had a lesson," said Emily Lambert, who returned from the China Hong Kong Mission on Jan. 30. "Church was also canceled for two weeks to keep the members safe."

Becky Foushee has a son who is serving as a missionary in Bangkok, Thailand. She said that her son isn't doing much regarding the coronavirus at this time. She said her son and other missionaries are wearing masks primarily to combat pollution rather than battle the virus.

According to a letter to parents and stake presidents of missionaries in the Thailand Bangkok Mission from the mission president on Jan. 26, "There is no reason for panic, or extreme measures at this time. It is a time to be calm, wise and aware."

The letter states that the deaths from the virus so far have almost all been elderly individuals or those who already have compromised health or were admitted to hospitals when their illness was advanced.

The letter ends by saying, "We love the missionaries, and we will do all in our power to protect them."



The Church of Jesus Christ of Latter-day Saints

A worker at the Bishops' Central Storehouse in Salt Lake City loads supplies that will go to China.

Church sending coronavirus aid to China

By KENZIE HOLBROOK

The Church of Jesus Christ of Latter-day Saints is sending supplies to China to help with the recent outbreak of coronavirus, according to a news release.

President Russell M. Nelson asked a few long-time friends in China what type of aid is needed to help China combat the disease. He learned from these friends of a need for protective equipment at the Children's Medical Center in Shanghai where supplies are low because of the coronavirus outbreak in Wuhan. The Church will partner with Project HOPE to help distribute needed supplies, including 220,000 respirator masks, 870 pairs of protective goggles and more than 6,500 pairs of protective coveralls.

"A plane from Salt Lake is being chartered to transport supplies from the Church's Bishops' Central Storehouse in Salt Lake City," said the Church in a news release. A

second shipment will be sent from the Church's storehouse in Atlanta.

Latter-day Saint volunteers plan on assisting in the receipt and distribution of the supplies to those in need in Shanghai.

President Nelson also posted across his social media platforms about the Church's efforts to help China.

"I have had associations with the good people of China for decades," President Nelson said. "These are our dear brothers and sisters and we feel privileged to be able to offer some small measure of help. We pray for them, and know God will bless them."

Rachel Yu Liu, a BYU professor of Chinese, said the Church's announcement was great news for the Chinese people.

"It (the Church's donation) is an action motivated from love and human care regardless of national, political or religious boundaries," Yu Liu said. "The humanitarian action this time from the Church not only provides medical supplies but

moreover it carries hope, love and support for Chinese people. It means so much to them."

She added that the donation comes at a critical time as China battles the virus.

"This is the biggest challenging moment for Chinese people and the country in recent decades," Yu Liu said. "People are fighting not for anything else but their lives. It is a moment that will be remembered for generations."

Rita Cortez — the managing director of the BYU Chinese and Arabic Flagship Center — said she thinks it is amazing how the Church can help in these types of crises.

"I'm grateful that so many good members give of their means so that the Church can bless our brothers and sisters all over the world and, now particularly, in China," Cortez said. "I have been to China several times and have always been impressed with the good people who live there. This is a tragic situation for that country and to see our Church leaders take this action is very heartwarming."

TODAY

UNIVERSITY DEVOTIONAL
Tuesday, February 4,
11:05 a.m., Marriott Center

This devotional will also be broadcast in the JSB Auditorium.



Sister Bonnie H. Cordon
Young Women General President

Sister Bonnie Hillam Cordon was serving as the first counselor in the Primary general presidency when she was called in March 2018 to be the Young Women general president of The Church of Jesus Christ of Latter-day Saints.

As a young adult, Sister Cordon served a full-time mission in the Portugal Lisbon Mission. Later, from 2010 to 2013, she served with her husband as he presided over the

Brazil Curitiba Mission. Sister Cordon loves running and scuba diving, and has enjoyed serving in many church callings.

A native of Idaho Falls, Idaho, Sister Cordon received a bachelor's degree in education from Brigham Young University. She worked in management in the software industry and later started her own business.

Sister Cordon and her husband, Derek L. Cordon, are the parents of four children.

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Bill would keep law enforcement from probing DNA data



Important DNA and law enforcement events

By DECKER WESTENBURG

Rep. Craig Hall, R-West Valley City, filed HB231 in the 2020 Legislature that would prevent police from accessing at-home DNA tests to perform familial DNA searches.

Law enforcement has found that tapping into DNA data, which has sometimes been linked to genealogy, can lead to criminal convictions in unsolved crime cases, but the practice also has raised ethical and privacy concerns.

Companies such as Ancestry, which is based in Lehi, Utah, have already banned the practice. According to Ancestry.com's law enforcement guide, they "do not allow law enforcement to use Ancestry's services to investigate crimes."

Utah began using familial DNA searches in DNA databases in 2014. Hall's bill would only protect private companies from being searched by police, but federal and local databases could still be searched.

In 1990, the FBI created a pilot system called CODIS, or the Combined DNA Index System. This system was shared nationally in 1994 and allowed for DNA to be accessed for law enforcement purposes. Despite allowing individual states access to the program, the federal government has not set a standard of guidelines when it comes to how state governments can instruct local law

enforcement to use this access.

In the Utah 2019 Legislative session, Rep. Steve Eliason, R-Sandy, proposed HB421, which would have provided more than \$500,000 in funding to create a CODIS lab in the state of Utah. He said that currently some kits in the state of Utah take more than a year to process. While the bill passed the House and a Senate committee vote, the full Senate never voted on the bill.

"Some of the DNA legislation that we have passed in the past several years has made a big difference in apprehending criminals," Eliason said as he presented the bill to the House floor.

Some of the programs used in

Utah's CODIS testing consist of systems called lineage testing and familial DNA searching. Over the past 30 years as CODIS labs have run DNA through the system, they have been able to set certain precedents that allow for partial matches to be found. A partial match is one that indicates a type of familial relationship. This could be anyone from a third cousin to a sibling or parent.

As partial matches are found, the door has been opened to experts to perform lineage testing, which uses genetics and genealogy as it draws lines between a person's lineage. FDS, or familial DNA searching, has also been created. This is a separate software that

detects and statistically ranks relatives.

In 2015, there were only 130 CODIS labs in the country, and of those labs, only 40% have proceeded with partial matches and 11% have proceeded with familial DNA matches. Utah was the ninth state that proceeded with conducting familial DNA testing.

As labs across the country are facing this new focus of processing criminals, the funding and education has not caught up to the amount of emphasis that legislation is placing on this new initiative.

A 2014 study surveyed 103 of the 130 CODIS labs in the U.S. Of the 103 surveyed, none of the labs have had, or required,

any official training to be held by those performing a familial DNA search. Of the training that they did provide, most of the training consisted of less than one day and was not conducted by a professional.

In the United States, BYU is the only university that offers a postsecondary degree in genealogy. According to BYU's website, the program, "offers intensive training and prepares students for a variety of professions and community service."

Other certificate programs exist at universities such as Boston College, but only one bachelor's degree program exists in North America.

The Utah State Crime Lab requested \$2.4 million in order

to fund enough crime lab technicians who specialize in DNA testing to overcome backlogs on Utah rape kits that range into the thousands.

As kits have been processed, many have been matched to the CODIS in the FBI system or in the state of Utah.

Utah State Crime Lab Director Jay Henry said his staff has begun to, "see an increased amount of submissions begin to come in as the different state entities have a 'test-all' policy among the departments."

The crime lab was only given half of the funds in 2017 and has yet to overcome the backlogs as of December 2019. There are only nine technicians currently serving in the Utah Crime Lab.

Ben Daniel

Identifying victims using forensic genealogy

By ANNE WALLACE



Forensic and genetic genealogy testing are used by law enforcement and hobbyists alike, but a new nonprofit is stepping onto the scene to use DNA testing not to identify criminals but the victims themselves.

The DNA Doe Project was founded by Margaret Press and Colleen Fitzpatrick in 2017. Press, a linguist, software developer and mystery novelist from Los Angeles, developed an interest in genetic genealogy through her passion for family history research. She started helping adoptees find their birth parents but discovered a passion for helping find the true identities of Jane and John Does.

Born in New Orleans and originally a physicist, Fitzpatrick has been working with police to use DNA testing to solve crimes for over a decade.

Fitzpatrick also founded Identifinders International in 2011 and is often sourced as the person who coined the term "forensic genealogy."

Press and Fitzpatrick were the first to identify a victim using next-generation sequencing in combination with genetic genealogy. The John Doe in this case was reunited with his name: Joseph Newton Chandler. The DNA Doe Project has since identified more than 16 Jane and John Does in the two years since its founding and has volunteers working in labs across the United States.

One volunteer, Cairenn Binder, serves as the DNA Doe Project's case manager for the Southwest United States and joined the organization in 2018.

"We are advocates for the dead, who can no longer speak," Binder said. "Many of our volunteers are advocates for specific populations, such as Anthony and Lee Redgrave who founded the Trans Doe Task Force. Many of us also advocate by attempting to bring media attention to our cases."

Most cases are submitted to the DNA Doe Project by law enforcement after they have exhausted typical methods to

identify victims. Volunteers in the area coordinate with local partners to facilitate DNA extraction and sequencing. Then, if a match is found, the information is given back to law enforcement for them to contact next of kin and conduct any testing needed to confirm the result.

Binder said DNA Doe volunteers are able to identify victims—some of whom have been deceased for over 30 years—with the help of the scientists who worked those cases.

"There are scientists who have done the legwork before we come along to approximate the time of death as well as the descendant's age at the time of their death," she said. "This allows us to have a good idea of the birth year when we begin a case, and when we are searching ancestral downlines, we keep an eye out for people born in the approximate time we are looking for."

The volunteers can use this information to corroborate possible matches with missing person reports around that time period and matches in DNA profile databases.

The most important thing people can do to help is upload

any DNA tests they've done with companies such as AncestryDNA or 23andMe to GEDmatch and opt in for law enforcement matching, said Binder. According to her, the more people in the database, the easier it will be to identify possible matches. She acknowledged the privacy concerns related to this request.

"My DNA is DNA I share with my direct family but also my third, fourth and fifth cousins whom I have never met. By uploading my DNA to GEDmatch, it is true that this shares their DNA information as well," she said, "but humans in our society are all connected so closely that the privacy of individuals is never a guarantee."

The DNA Doe Project does take large measures to protect the information of Jane and John Does, according to Binder. After a victim is identified, the name is only released with permission from their next of kin.

"When it comes to our genetic privacy, I believe that the benefits of genealogy for cold cases outweigh any risks," said Binder. She believes the ability forensic and genetic genealogy have to bring justice justifies the process.

FORENSICS

DNA privacy concerns

Continued from Page 1

"Forensic DNA testing has become a staple of criminal investigations in the modern era," said Daniel Hellwig, the laboratory director and forensic DNA technical leader. Hellwig said many private labs have come into play but their services are costly. Public labs are less expensive but are grossly understaffed, creating a backlog of cases that need testing to progress.

"Cold cases are especially hit hard by this," said Hellwig. "The older cases can be forgotten and then tend to be very difficult to solve." InterMountain Forensic plans to combat this by providing additional targeted resources to cases that would fall between the cracks, he said.

Hellwig has been working as a forensic scientist for more than a decade, and in that time he has witnessed how much forensic DNA testing has advanced. "When I first started, a crime scene required a blood stain the size

of a nickel to get an accurate result. Now it's less than the head of a pin," he said.

Hellwig empathized with the privacy concerns some may have about forensic DNA testing and publicly-accessible DNA databases. "Opt in directives for these databases are a solution that can alleviate some of these concerns," he said. "But the question remains, if members of my family have allowed databases to have their DNA profiles and thus my genetic profile can be extrapolated, should it be? Do I have a right to genetic privacy in this case?"

Law enforcement cannot use companies like Ancestry, GEDmatch, MyHeritage DNA and 23andMe to access genetic information without the consumer opting in or without a specific court order. Despite this, some companies, like Family Tree DNA, actively collaborate with the FBI.

While Hellwig acknowledged the gray areas, he said he stands in firm support of the use of forensic genealogy. "This is a powerful tool that can revolutionize investigations," he said, "but with great power comes great responsibility."

Next: DNA tests and minorities

Simple Bites

Recipe Column

This week:
Chicken tortilla soup

Ingredients	For 1	For 2	4 or more
Cooked chicken	1 cup	2 cups	4 cups
Onion (diced)	1/2 med	1 med	1 large
Chopped garlic	1 1/2 tsp	1 tbsp	2 tbsp
Oil	1 tbsp	2 tbsp	1/4 cup
Chili powder	1 tsp	2 tsp	1 tbsp
Cayenne pepper	1/4 tsp	1/2 tsp	1 tsp
Chicken broth	1 can	2 cans	4 cans
Black beans (rinsed)	1/2 cup	1 cup	1 can
Frozen corn	1/2 cup	1 cup	1 can
garlic salt	1 tsp	2 tsp	1 tbsp
Pepper	1/4 tsp	1/2 tsp	1 tsp
Toppings			
Sour cream	1 tbsp	2 tbsp	4 tbsp
Grated cheddar cheese	1 tbsp	2 tbsp	4 tbsp
Chopped cilantro	1/4 tsp	1/2 tsp	1 tsp
Tortilla strips	2 tbsp	1/4 cup	1 cup

Directions:
In a large pot, heat oil until hot. Add garlic and onion. Saute until onion is clear. Add cooked chicken, mix. Add chili powder, cumin, cayenne pepper. Stir. Add chicken stock and canned tomatoes. Allow to simmer for about 20 minutes. Add black beans and corn. Stir. Bring to a boil. Reduce heat and simmer. Season with garlic salt and pepper. Add more or less chili powder and cayenne pepper if you want more or less heat. Serve hot topped with sour cream, cheese, cilantro and tortilla strips.



Scan this photo with the **Universe Plus** app to see our video of how to make chicken tortilla soup.

BREWERY

City council decision

Continued from Page 1

Handley and Councilor Dave Sewell both felt there to be a contradiction in the brewpub's business goals and licensing limits of 70% food served versus 30% alcohol served. The brewpub would invest \$100,000 in micro-brewing equipment and employ a brewer and expect a return on that investment. They both commented that the business would market for a higher rate of alcohol consumption as its specialty would be in unique beer flavors.

Residents and councilors expressed concern with making a micro-brewery the main attraction for Provo's downtown. They commented that Provo is famous because of its association with Brigham Young University and talked about the contradiction between a micro-brewery and BYU's famous Stone-Cold Sober recognition that has lasted for 22 consecutive years.

Other residents came forward in support of the micro-brewery — some were Latter-day Saints while others were not. They wanted to invite an inclusive

and welcoming environment for those visiting Provo or already living here who do consume alcohol.

In response to Christiansen's earlier comments about Provo culture being unfit for a brewery, Downtown Provo resident McKay Lenker said, "He thinks it should be like his home when I think we should be welcoming all types of homes."

Peterson proposed the amendment to prevent people from feeling ostracized in the Provo community. He also hoped that the set-up of a micro-brewery would fill a "void of tourism" that has separated Provo from other communities that include brewpubs.

Councilor Travis Hoban paraphrased remarks from President Joseph F. Smith in the 1911 October General Conference.

"The people who visit us want a micro-brewery and unless it is provided them, they will go somewhere else and instead of beholding and viewing the beauties of Provo, they will go and see everything that is not beautiful and that which is not good," Hoban said, "like Springville."

Neiswender echoed Hoban's comment.

"When we are looking to go out for dinner and a drink, we always drive to Salt Lake City," Neiswender said. "Frankly we are sick of sending money out of

town."

Peterson and other residents and business owners came forward to explain why a micro-brewery would benefit their conventions and business associations. Their concerns centered around the inability to entertain businesspersons. They said that Provo was not currently outfitted to entertain those with lifestyles differing from the cultural norm.

Scott Bowles, Provo resident and general manager of Provo Towne Center, said, "I think the core issue here is the land use. Will it change who we are as a people? If the answer is yes? Then let's consider this heavily. If the answer is no? Let's approve and continue being who we are."

The council has decided they needed more research before coming to a final decision. Over the next few weeks, the council plans to poll Provo residents, local business owners and, potentially, visitors to the Provo area to collect enough data to understand the public's mind on the issue.

The council will also gather safety and crime statistics from surrounding local governments who host brewpubs within their cities. They will reconvene on the proposed amendment change on Tuesday, Feb. 18.

Lack of housing forces students to rent former hotel rooms

By JENNY GOLDSBERRY

BYU students Tanner and Emma Lowe began looking for an apartment to move into in July 2019. Emma was connected to four Facebook pages for married housing in the Provo-Orem area. Despite her efforts, she couldn't find anything within their price range.

"We would find a good deal on a house, at a good price, but then it'd be snatched up so fast that we couldn't get in," Tanner said. "Even if I saw the posting within an hour," Emma said.

By late October to early November, they had almost lost hope. Then, they found an ad for a studio apartment on a piece of copy paper taped to a railing outside the Joseph F. Smith Building. The ad said the unit was fully furnished, with a microwave, television and refrigerator for \$495 per month. They called the number on the flyer.

The studio turned out to be a hotel room in what was formerly a Super 8 on Canyon Road across from the BYU campus. It was fully furnished, with two queen beds, hotel art and vending machines down the hall. There was no kitchen and only a mini-fridge. All this was explained to them by their new landlord, Matt Tashjian, over the phone.

When the Lowes called that first week of November, it had only been three or four days since the landlord had begun renting the rooms on a month-to-month basis. They were told there were only 20 rooms left of 99 total.

"It got snatched up so fast because they had it so cheap," Emma said. At the risk of losing another apartment, they signed a contract to live in the hotel.

Living in cramped quarters hasn't been easy for the Lowes.

"The dishes situation can be a little bit annoying just because there's no kitchen sink," Emma said. "We've just been doing that in a tub."

Canyon Road's Super 8 closed permanently as a hotel in October 2019. It was subsequently purchased by a company called Marvin Gardens and advertised as studio apartments for married housing on Facebook. Marvin Gardens also has a website to market the space and filter new applications. There is also a portal for renters to pay their rent



Kyle Perry

This former Super 8 hotel is home to several BYU students who rent the rooms as apartments.

online, but for now, occupants are paying Tashjian over Venmo.

Long-term rental arrangements in hotels violate Provo City zoning codes. A stay longer than 30 days is considered long-term. Hotels and motels are defined by having more than 10 rooms for rent, which are rented more than once within a thirty day period. Rooms like the Lowes' have been occupied for longer than 30 days.

The building's new management apparently gets around the city's zoning laws by giving its occupants contracts that are signed every 30 days. This gives the appearance of multiple rentals per month, but in reality, it's the same occupants living in the same unit every month. The contract title reads, "Hotel Guest Contract Agreement," but on the same contract there are terms written in to hold the unit through to the end of the next month.

Rental licenses are available from the city for long-term rental dwellings, but as of January 2020 no rental license was filed with Provo City under the address of the hotel or under the name of the new owner. Provo City recorder Amanda Erchanbrack revealed this after The Universe filed a GRAMA request seeking a copy of the rental license.

A typical hotel room would likely meet Provo City's health and safety standards. According to Provo City Code, there is actually nothing that requires kitchens in rental dwellings. Health and safety standards include structural integrity and smoke alarms. Minimum bedroom floor area is 70 square feet, and the hotel rooms being rented to students are more than 300 square feet.

It's the hotel's zoning that prevents it from becoming a legal

apartment complex. According to Provo City Code, the corner of Canyon Road and University Parkway is zoned as a general commercial zone, which does not allow for residential apartment complexes.

Provo Zoning Administrator Carrie Walls, said new ownership has meant increased vigilance. She remembers it as a high crime area. "It's been like that for decades," she said. According to the Lowes, the new management is combating this with a strict code of conduct. They heard rumors that one resident has already been kicked out for smoking pot. The rental contract makes it clear that management implements a zero-tolerance policy. Since moving in, Tanner said he saw some kids breaking into the vending machine.

The Lowes said there is simply not enough flexible, inexpensive housing for married college students in Provo or within a reasonable distance of BYU.

"You can't do anything about it because there are no other options. So that's why we're here, because it was cheaper and we're going to deal with the not-so-great things about it," Emma said. They hope to get into Wymount Terrace, one of BYU's married student housing complexes, after winter semester.

It appears that the hotel owners plan to continue to rent rooms month-to-month in the future. The owner and management told occupants that they plan to renovate each room and add kitchenettes this summer.

The Daily Universe contacted the property owner and left a voicemail seeking a comment. The owner returned the call, expressed his displeasure with the reporter's inquiry, and said his comments would be off the record.

Black Heritage Forever stamp honors journalist

By SYDNEE GONZALEZ

The US Postal Service honored pioneering journalist Gwen Ifill with a Black Heritage Forever stamp on Jan. 30, just days before the start of Black History Month in February.

The stamp is the 43rd Black Heritage Stamp in the Postal Service's series honoring African American individuals and their contributions to the country.

"Gwen Ifill was a remarkable trailblazer who broke through gender and racial barriers," said Deputy Postmaster General Ronald A. Stroman in a press release. "The Postal Service is proud to celebrate Gwen's contribution as a remarkable journalist with this beautiful commemorative Forever stamp. Gwen was truly a national treasure, and so richly deserving of today's honor."

Ifill was the first African American woman to host a major political talk show. She



Associated Press

The Gwen Ifill Black Heritage Commemorative Forever Stamp is seen at the Metropolitan African Methodist Episcopal Church in Washington.

hosted PBS's "Washington Week in Review" from Oct. 1, 1999, until her death in November 2016.

Ifill became the first African American female journalist to moderate a vice-presidential debate in 2004. She was a part of the first all-female team to anchor a daily national broadcast news show.

"The Ifill family is thrilled that our sister, cousin and aunt has received this signal tribute to her legacy as a truth-teller, pioneer and exemplar,"

said Bert Ifill, Gwen's brother, in a statement. "As a reporter and moderator, Gwen was dedicated to two principles: getting the story right and getting the right stories out. As a mentor, supportive friend and family member, she was determined, not only to open doors for those of us previously locked out of opportunity, but also to provide floor plans to help us find our way through. She is forever in our hearts, and we are forever in her debt."

MIXTAPE

Single and Proud Of It

"Love Myself"
Hailee Steinfeld
Single

Love yourself! You don't need anyone else! Hailee Steinfeld tells her fans that confidence is the best look on anyone with this song. The positivity radiating from this song is very refreshing amidst any negative feelings you may have.

"The Man"
Aloe Blacc
Lift Your Spirit

Aloe Blacc is a songwriter, record producer, and philanthropist and it shows in his song "The Man." This song is about being confident in yourself and acknowledging your worth. The first verse starts off slow, but be patient. The chorus will have you tapping your foot. You won't regret it. Promise.

"Forget You"
Glee Cast
Glee: The Music, Volume 4

Scan the album covers with the Universe Plus app to hear a sample of each song and to submit your own music reviews.

BYU ARTS

byuarts.com | (801) 422-2981

BYU Young Company: Hamlet

To skate or not to skate, that is the question! What do YouTubers, skateboarders, and Shakespeare have in common? Find out with Young Company's vibrant adaptation of Hamlet. The context is modern, but the dialogue is just as the Bard wrote it.

Feb. 5-7, 12-14, 7:00 p.m.
Feb. 8, 15, 2:00 p.m. & 4:00 p.m.
Nelle Theatre

Jazz Ensemble and Syncopation

Join BYU's Jazz Ensemble and Syncopation for a night of both modern jazz and swing era music.

Wed., Feb. 5, 7:30 p.m.
de Jong Concert Hall

Contemporary Dance in Concert

Thurs.-Sat., Feb. 6-8, 7:30 p.m.
Sat., Feb. 8, 2:00 p.m.
Pardoe Theatre

Living Legends

Fri.-Sat., Feb. 14-15, 7:30 p.m.
de Jong Concert Hall

Opera Scenes

Wed.-Sat., Feb. 19-22, 7:30 p.m.
Madsen Recital Hall

Carmina Burana with BYU Choirs and BYU Philharmonic

Wed.-Thurs., Feb. 19-20, 7:30 p.m.
de Jong Concert Hall

Essentially Ellington Jazz Festival: BYU Synthesis

Fri.-Sat., Feb. 21-22, 7:30 p.m.
de Jong Concert Hall

BYU Symphonic Band

Wed., Feb. 26, 7:30 p.m.
de Jong Concert Hall

All events are ticketed.

BYUarts



Chattanooga Times Free Press Bennett



@varvel

PUNXSUTAWNEY TRUMP

gary varvel
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Tweet Beat

#BYU #BYUprobs

Want to see your tweet in print? Tweet something about life around you with #BYUprobs or #BYU and hopefully it makes the cut.

Leave comments at universe.byu.edu or @UniverseBYU

@brynlis
I spent \$25, I might as well spend another \$25 @HeardAtBYU if this isn't the most relatable thing

@copcar97
one of my professors just stopped me in the hallway to tell me that she saw my ex getting a parking ticket the other day. friendship unmatched.

@imjosephsilver
my IS professor: yeah I went on like 14 dates in a week, just trying to play the field me: *hasn't been on a date in a fortnight* haha nerd

@itsjustjaybae
The only people really looking out for me in 2020 is the person that called the BYU police thinking I was dead in my car when I was in fact sleeping. @HeardAtBYU

@YouSweetThing
Person 1 & 2: singing hamilton
Girl 3: you're everything you've ever hated! You're singing Hamilton in the cougar eat!
Person 2: WE'RE everything we've ever hated? YOU'RE everything you've ever hated!
Girl 3: SO WHAT if I got engaged at 20 after 7 weeks! Not as bad as Hamilton!

@katiyset
Motivational speakers at BYU be like "Who gives a flying flip?! Just do your best :)"

@a_dot_hinman
Student 1: I'm from Idaho
Student 2: What do you do there? Besides eat potatoes?
@HeardAtBYU

@megamindirl
I once @HeardAtBYU someone say "you can retake a class but you can't retake a party." I used this justification everytime I skipped class to binge Netflix

@sydsimps12
"I've been married to my husband for a whole transfer!" @HeardAtBYU

@camllewhis
Just screamed along to the Way I Loved You by Taylor Swift 3 times in a row on my drive back to Provo so I think I will be able to make it through the next few days now

@JollyMollyDay
cant wait to apply for the bachelor after my mission

@gracerlange
"Am I on fleek or nah" @byuprofessors

@BrittPerm
Professor: what's your name?
S: "hesitantly" Bruce Wayne.
P:really?
S: yes. just my first name. It's hyphenated.
@HeardAtBYU

@KillionMillie
"There's two type of boys here at BYU... the ones I want to SHUT up, and the ones I want to WIFE me up" @HeardAtBYU

@LatterdayLikes
The Church should just have John Williams compose the entire new hymnbook

@whitofsofph
Girl on the phone: mom, you're definitely Type A. Ask dad, ask anyone!
(Pause) are YOU a psychologist?
(Another pause) Fine. Are YOU at college studying psychology? @HeardAtBYU

@zachary_ibarra
whoever chose the garlic herb sourdough bread for sacrament this morning, please give my compliments to the chef

@Kate_Foster14
"So you probably won't be married by the time you graduate, will BYU still give you your diploma?" - my father

@Amijaw
My stats professor: "Have you heard of the keto diet? My daughter's been going on about it all the time. It's so amazing, you can lose..." and then he just stopped talking.
@HeardAtBYU

@_scosgrove
My superbowl prediction is that the BYU cougars will finally defeat the Utah utes

@jacobbsearle
studying in the cougar eat on an empty stomach with \$8 in my bank account is the greatest feat of self-control I've ever done

@42ndfall
Econ Prof: So now I'm going to reinforce all the cynicism that you hold about economics.
@HeardAtBYU

@OliverWDahl
"It would take the Second Coming for BYU to cancel classes. And maybe not even then." - @byuprofessors @HeardAtBYU

@MandyFranson
@HeardAtBYU "it's hard to play hard to get, when your hard to want"

Tweets are unedited.

READERS' FORUM

A solution to year-long housing contracts

Life as a BYU student can change so much within a year. With missions, marriage and families on the horizon, a single year can take many different and unexpected turns. Committing to a one-year housing contract, which the majority of off-campus BYU housing requires, has proved problematic for many BYU students. The panic of finding someone to buy a contract for the upcoming semester is an all-too-familiar feeling taking its toll on students living in Provo.

Students should be able to sign a semester-long contract and have discounted rent for a certain number of consecutive semesters they remain in their apartment. With this solution, students won't feel the added stress of finding someone to buy their contract during the middle of the year.

Instead of restricting a student's plan for their future, landlords should work with the individual and their situation. The first steps to change are addressing the problem and proposing a possible solution, which might better help the situation for both parties. From the landlord's standpoint it's understandable to want year-round apartment contracts, but with the way things are, students are forced to either lose thousands of dollars or even pay someone to buy their contract if they want to move out.

So, instead of reaching out on Instagram or Facebook for "anyone looking for housing in the Provo/Orem area," contact your building management, fill the suggestion box and do whatever it takes to start the conversation to end year-long contracts.

—Sydney Bond
Mesa, Arizona

due to how they reacted to the weather as kids and how their parents raised them to act. Past experiences dictate how people react.

Even though past experiences allow us to have previous knowledge of what to expect or how to act in certain situations, society's perceived idea of the environment has an affect on our attitudes of the weather around us. These notions are ingrained in us through those around us, including our parents, siblings, friends and teachers.

We each have unique lives with variations of experiences and learned emotions. However, we all have the agency to choose how we react to the weather. You don't know what will happen tomorrow, so don't confine yourself to your idea of what you define as a great day.

—Laura Greco
Pepperell, Massachusetts

Korean pop and how it portrays masculinity

Over the past several years, a previously niche music genre has broken into the American music scene: Korean pop aka K-pop.

One of the defining characteristics of K-pop is the heavy emphasis that is placed on visual aesthetics in performances and music videos. Striking makeup, vibrant hair colors and avant-garde outfits are all key elements of the appearance of a K-pop artist, regardless of gender. This departure from the appearance of masculinity that we typically see represented in Western cultures has brought male K-pop idols to public attention, prompting a wide range of responses. Idols see this range of visual expression as an extension of themselves, which allows them to be honest on stage.

Observers of this media do not necessarily share this perspective. Some have taken their strong distaste for the trend to the comments of social media posts, while some Chinese citizens have created after-school clubs to create "alpha males" and combat the dangers of the "effeminate male images" that K-pop idols present. However, many individuals have been attracted to K-pop by the freedom and exploration of visual expression represented by the genre.

Fans hail this departure from Western hypermasculinity and machismo, which is represented in the media as a way to challenge "toxic-masculinity." It allows men to adopt softer and gentler images without seeing them as a sign of weakness. Regardless of opinion, these reactions open an interesting discussion of societal perceptions of masculinity.

—Jane Hutto
McKinney, Texas

Perception of weather

Most people believe the quality of their day can be predicted by their environment, especially the weather around them. However, it is truly our past experiences and attitudes associated with the weather that influence how we react on a daily basis.

There are a million places to live around the globe that can attribute to this reaction. Based on where people are from, they have grown up accustomed to certain weather, which has an effect on what they enjoy. We are culturally defined by weather based on where we grew up and currently live.

Children are able to see what others responses are to specific surroundings, especially those whom they closely connect with. As a result, many people think of rain negatively

OPINION OUTPOST

The Opinion Outpost features opinions and commentary on the latest hot topics from state and national news sources.

Utah homeless services

Political leaders at the state and local level put their heads together and came up with yet another new way to address the growing problem of homelessness in Salt Lake City.

There is already reason to worry that it's not going to work. If it doesn't, it will be time for our leaders to recognize that we cannot just work our way out of a problem that has so many causes, so many victims and no easy solutions.

As Helen Keller once said, the only thing worse than blindness and deafness is lacking vision. So far, it appears that the state has lacked the vision necessary to really address homelessness, not just move it around.

—Editorial Board
The Salt Lake Tribune

Health insurance coverage

Notwithstanding progress under Obamacare, the United States still does not provide health insurance to all of its population. About 27.5 million people, or 8.5 percent of the population, lacked coverage throughout 2018, according to the most recent Census Bureau report published in September. The country has moved in the wrong direction since President Trump took office: The 2018 uninsured numbers were up over 2017.

—Editorial Board
The Washington Post

Misinformation about coronavirus

Though rumors and misinformation have been a side effect of viral outbreaks for as long as humans have been plagued by them, social media networks now amplify irresponsible and hysterical memes that

might otherwise remain on the fringes. A tweet or post with dubious information can spread to all corners of the internet in minutes. Facebook, Twitter and Google have taken steps to steer people toward legitimate information and sites such as the Centers for Disease Control and Prevention's Wuhan coronavirus fact page, but misleading items are still available online.

—Editorial Board
The Los Angeles Times

Utah's safe haven law

A simple amendment designed to save the lives of vulnerable Utah infants deserves a positive reception at the Legislature and a concerted education effort around the state.

The bill, sponsored by Rep. Patrice Arent, D-Millcreek, would amend Utah's safe haven law, which hasn't been updated since she first shepherded it through the legislative process in 2001. The law allows a parent to relinquish a newborn baby

at a hospital with no questions asked within a 72-hour time frame. The amendment would expand the time limit to 30 days, among other things.

—Editorial Board
Deseret News

Trump's Middle East plan

On its surface, the plan appears to build on the peace plans of yore. It revives the moribund two-state solution, and it covers all the major issues — Israel's security, Jerusalem, the settlements, the right of return

for Palestinian refugees and a \$50 billion aid package for the Palestinians if they sign on, presumably financed by oil-rich Arabs recruited by Mr. Trump.

—Editorial Board
The New York Times

GDP slowdown

President Trump promised to lift the economy above the 2% growth trend of the Obama years, and for a while tax reform and deregulation did the trick. But his trade and tariff forays undermined business investment and global manufacturing, and the economy is now back

down to a 2% growth plateau. That's nowhere near a recession, but it's disappointing as a lost opportunity.

The impact hit the U.S. in 2019 as private investment growth fell to 1.8% for the year from 5.1% in 2018.

The biggest growth risk may be the election, and the possibility of a left-wing Democratic nominee. Consumer confidence in the economy is increasing, which will help Mr. Trump. But a lesson of 2019 is how much better growth might have been without the trade battles.

—Editorial Board
The Wall Street Journal

WE WANT TO HEAR FROM YOU

The Universe encourages students, faculty and BYU staff to add their voice to ours by writing letters to the editor and guest editorials, or by submitting editorial cartoons.

- All letters should be submitted by email to universe.ideas@gmail.com. The topic of the letter should be included in the subject line.
- Letters should also include the author's name, hometown (for students), campus position (for faculty and staff) and phone number. Anonymous letters will

- not be published.
 - Letters should be no more than 250 words and may be edited for length, clarity or style.
 - Guest editorials should be 500 to 700 words and are encouraged from individuals with professional or academic expertise on the topic.
 - Original cartoons are also welcome.
- Opinion editor Spencer McWilliams can be reached at universe.ideas@gmail.com.

Kobe Bryant's legacy lives on through BYU athletics



Preston Crawley

BYU students hold up placards resembling Kobe Bryant's jersey in honor of him before the Jan. 30 game against Pepperdine. The Marriott Center was lit up in LA Lakers colors prior to the game.

By SYDNEY FLEMING

BYU basketball paid tribute to the late Kobe Bryant prior to tip-off against Pepperdine on Jan. 30, much like the rest of the sports world.

Bryant won five NBA championships, made 15 All-Star Game appearances, claimed four All-Star Game MVP awards, clinched two NBA Finals MVP Awards and won a regular-season MVP title in 2008. Yet it wasn't his accomplishments that made him truly great; it was his mentality.

An article from Bleacher Report listed the top 50 NBA basketball players of all time, placing Bryant at No. 14 on the list. The first sentence to describe Bryant said, "At the heart of Kobe Bryant's legacy is an unrelenting competitiveness." Bryant's section closed with "but that his drive to dominate lasted as long as it did sets Kobe apart. And it was behind any other story or anecdote you may read about him."

NBA Commissioner Adam Silver released a statement following Bryant's death. He said that Bryant was "One of the most extraordinary players in the history of our game with accomplishments that are legendary, but he will be remembered most for inspiring people

to pick up a basketball and compete to the very best of their ability."

Silver concluded that Bryant's mission was to share his basketball knowledge with future generations, especially his daughter Gianna.

People, from music artists to football players took to social media to mourn Bryant's loss. Many claim that he was the inspiration behind their success, including current and former BYU athletes.

Bryant's "Mamba Mentality" ultimately created some of the star athletes in the sports industry today. Many former BYU football and basketball players expressed how Bryant and his mentality inspired them.

Senior power forward Yoeli Childs is one of the many who watched Bryant as a child. When Childs came to BYU, he had to do two-a-day and three-a-day practices and was often exhausted. He attributes his drive to keep going to Bryant.

"I'd think of him and think of his work ethic and how hard he would workout and how he would outwork everyone else," Childs said. "I would literally think to myself, 'Kobe is out there working harder than me. I think I'm working hard, but he's working harder than me. I've gotta do more.'"

And Childs' work is paying off, as

he leads BYU in scoring and rebounds, with 21.2 points and 9.6 rebounds per game. Childs said that watching videos of Bryant helped him improve his own game.

"Kobe really made a huge impact on my work ethic," Childs said. "Growing up, I'd watch him all the time, look him up on YouTube, look up his footwork as a post-player and really try to emulate what he did and take it into my game."

Senior Dalton Nixon also grew up watching Bryant play. Nixon reminisced on watching Bryant play on Christmas Day for the Lakers, despite being a hard-core Utah Jazz fan.

"I think about Christmas Day games and that was Kobe's day," Nixon said. "I wasn't a huge fan of the Lakers, being a Jazz fan growing up but I just admired his tenacity and his demeanor on and off the court."

Nixon also added that Mamba Mentality is important for him and for anyone trying to fulfill dreams as a basketball player.

Linebacker Kyle Van Noy asked people on his Twitter account to comment their favorite Bryant moments. He added his own moments saying, "One of mine has to be Kobe hitting two free throws on a torn Achilles to tie the game!! Can't imagine the pain he had shootin but he made it look so easy. He

inspired generations pure greatness!"

Forward Brandon Davies said he was impacted by Bryant's death. "Didn't know Bryant personally but feels like I lost a family member," Davies tweeted. "I'm sick."

Bryant's nickname on the court was "The Black Mamba," a name that would mean much more later in his life. Because of Bryant's hard-working nature, the term "Mamba Mentality" was born.

"His Mamba Mentality is something that stands out to every basketball player," Nixon said. "You think about little kids growing up, they always wanted to work hard because they saw Kobe work hard. They wanted to stay late after practice or get to the gym early so that they could work hard because they saw Kobe work hard."

The mentality clearly got Bryant far as he is currently No. 4 on the list of NBA all-time leading scorers. Bryant checks in above decorated player Michael Jordan, but below LeBron James, who stole Bryant's third-place spot the night before the accident.

A CBS sports article quoted Kevin Durant on what Mamba Mentality meant for him.

"I never wanted to be like Kobe, but I always wanted to have that laser focus, that nothing was getting in the way of

what I wanted to do out on the floor," Durant said. "It was just like, whatever I want to do, I'ma put my mind to it and do it."

BYU head coach Mark Pope also had some words for Bryant. Pope's NBA career began at the same time as Bryant's, as they were in the same draft class in 1996. Bryant was drafted No. 13 overall to the Charlotte Hornets and Pope was drafted No. 52 by the Indiana Pacers. Coach Pope recalled a game when the Milwaukee Bucks and Pope played Bryant and the Lakers in the Staples Center. Bryant had just hit three-straight three's in three-consecutive possessions.

"Every shot got harder and harder," Pope said. "The last one, I'll never forget, he's in a trap and pivots twice and shoots a fade away where he basically lands in our laps to sink his third three. The things he did on the court were extraordinary."

But Pope said the best tribute to Bryant is not necessarily about his basketball career.

"The best tribute to Kobe Bryant right now I think is hearing all these stories that nobody ever heard," Pope said. "Where he went out of his way to extend himself to people. And we all watched in awe of the things he did on the court."

2020 BYU football schedule released

By HANNAH MINER

BYU football released its 2020 schedule on Wednesday, Jan. 29. The 12-game lineup includes six games against Power-Five conference opponents, as well as three matchups with top-25 teams from last season.

Seven teams on the schedule received a bowl invitation in 2019. The schedule includes teams from 10 states and seven conferences, while also featuring two opponents that BYU has yet to face in the history of its football program.

The Cougars will begin the season in Salt Lake City, facing in-state rival University of Utah on Sept. 3. The BYU home opener will take place on Sept. 12 against Michigan State. BYU will then travel to face Arizona State on Sept. 19. They will finish the month with a trip to Minnesota on Sept. 26 for

Minnesota's homecoming game, also marking the first time the two teams have faced off.

BYU will play Utah State on Oct. 2 in the first of three home games that month. They will face Missouri on Oct. 10 in LaVell Edwards Stadium before hosting their final home game of the month against Houston on Oct. 17. Then they will take to the road to play against Northern Illinois on Oct. 24.

The Cougars will begin November playing against Boise State in Idaho on Nov. 7. They will return to LaVell Edwards Stadium to play against San Diego State on Nov. 14. BYU will then host North Alabama on Nov. 21 for senior day in the teams' first-ever meeting. They will conclude the regular season at Stanford on Nov. 28.

BYU's 2020 opponents had a combined 83-54 record in 2019. BYU owns a losing all-time record against its 2020 opponents, going 121-135-8 over the 264-game span.

BYU, ESPN extend contract through 2026 season

By SYDNEY TOWNSEND

A seven-year media agreement between BYU and ESPN was announced on Jan. 30. This agreement encompasses broadcasting home football games, men's basketball game and bowl games for the next seven years.

BYU signed the first unique media rights contract with ESPN out of any FBS program 10 years ago. This allowed BYU games to be broadcast on ABC and various ESPN channels and streamed on the ESPN app. The new deal will also allow BYUtv to broadcast one football game per year.

BYU hasn't had a shortage of Power Five matchups since becoming independent. They have played at least one team from each Power Five conference and will continue to do so. Some of these teams include Arkansas, Missouri and Tennessee from the Southeastern Conference as well as Michigan State and Minnesota from the Big 10. BYU has had the opportunity to play in 11 professional stadiums and 32 states around the country.

Along with broadcasting BYU's home football games, the broadcasting rights extend to men's basketball. ESPN will air 17 WCC games during the regular season and games into the postseason, including tournament championships, for the next



BYU Photo

ESPN sportscasters participate in an on-location broadcast prior to a BYU game.

seven years.

BYU agreed to play in ESPN-owned bowl games contingent on their seasons in 2020, 2022 and 2024. They have already appeared in four ESPN bowls, one of them being the 2018 Famous Idaho Potato Bowl when quarterback Zach Wilson went perfect on his pass completion rate.

They also have an opportunity to compete in the historic Independence Bowl held in Shreveport, Louisiana, during the 2021, 2023 and 2025 seasons. The 2021 and 2025

bowl games could feature BYU and a Conference USA opponent, while the 2023 bowl game could feature BYU and a Pac-12 opponent. Participating in this bowl game will allow BYU to cater to its national audience, especially in the Southeastern U.S.

The Cougars could potentially compete in the Cheez-It Bowl in Phoenix if a Big 10 and Big 12 team fail to qualify. If this opportunity arises, it would take the place of one Independence Bowl and one ESPN bowl.

2020 football schedule

Sept. 3 at Utah	Oct. 17 vs Houston
Sept. 12 vs Michigan State	Oct. 24 at Northern Illinois
Sept. 19 at Arizona State	Nov. 7 at Boise State
Sept. 26 at Minnesota	Nov. 14 vs San Diego State
Oct. 2 vs Utah State	Nov. 21 vs North Alabama
Oct. 10 vs Missouri	Nov. 28 at Stanford

Jimmer Fredette voted Greek League All-Star

By HANNAH MINER

BYU basketball alumnus Jimmer Fredette has been voted a Greek League All-Star.

He will be participating in All-Star Weekend, which takes place Feb. 7-9. All Star Weekend includes a game between Greek All-Stars and All-Stars from the rest of the world, as well as a three point shooting competition and a slam-dunk contest.

His current team, Panathinaikos, has gone 15-2 in the Greek Basket League as of Jan. 30 and 13-8 in the EuroLeague so far this season. The team is shooting 48% from behind the three-point line this year while going 55.8% overall from the field in the Greek Basket League. They are shooting 37.4% from the three-point line and 49.8% overall in the EuroLeague.

Fredette leads his team with an average of 14.7 points per game and 294 points total in the EuroLeague as of Jan. 29. He averages two assists per game, 44.8% shooting from

three-point land and 49.2% overall in the EuroLeague.

Fredette averages 14.1 points per game in the Greek Basket League as of Jan. 30, with 212 points total. He leads the Greek Basket League in points per 36 minutes and three-point field goal percentage, averaging 29.1 and 63.9%, respectively. He is shooting 63.9% overall and averages 3.1 assists per game.

Fredette began his professional career when he was drafted 10th overall by the Milwaukee Bucks in the 2011 NBA Draft. He was then traded to the Sacramento Kings where he played until 2014. Near the end of his time playing for the Kings, Fredette scored a career-high 24 points during a game against the New York Knicks. His contract with the Kings was bought out soon after, and Fredette signed with the Chicago Bulls for the rest of the 2013-14 season.

He signed with the New Orleans Pelicans in July 2014 and had a season-best game in December 2014 with 14 points and three rebounds while playing against the Spurs. Fredette then signed with the

Spurs but only appeared in two preseason games. He was then signed by the Westchester Knicks as the second overall pick in the 2015 NBA Development League Draft. In 2016, he signed a 10-day contract with the New York Knicks before signing back with Westchester.

Fredette signed with the Shanghai Sharks of the Chinese Basketball Association in August of 2016. He shot 43% from behind the three-point line and 47.8% overall during his time with the Sharks, in addition to averaging 32 points and 4.5 assists per game. He played for Shanghai until 2019, when he returned to the NBA and signed a contract with the Phoenix Suns. Four months later, Fredette signed with his current team, Panathinaikos.

Fredette played at BYU from 2007-2011. He shot 39.4% from downtown and 45.5% overall during his college career. He averaged 28.9 points per game during his senior season with the Cougars, becoming the leading scorer in all of NCAA Division I. He is BYU's all-time leader for points and three-pointers.

BYU, Stanford announce four-game extension of football series

By MITCHEL PHIPPS

BYU and Stanford have announced a four-game extension between their football programs. This four-game extension now extends to a total of eight games between the two schools. The teams two previous meetings came in 2003 and 2004.

In the first meeting, BYU was led by quarterback John Beck who was later drafted by the Miami Dolphins in the second round of the 2007 NFL draft. BYU started the fourth quarter up 14-12, but after a field goal and touchdown by Stanford, BYU found itself down 18-14. Stanford would go on to beat BYU with that score in LaVell Edwards Stadium.

The second meeting took place in California at Stanford. BYU again started quarterback Beck but was unable to finish the game due to injuries. Beck would throw for 232 yards and three interceptions before exiting the game. Stanford was led by future NFL quarterback Trent Edwards, who led the game in passing with 297 yards and threw for three touchdowns. Stanford defeated BYU 37-10, giving the



Preston Crawley

BYU football players celebrate after beating Idaho State 42-10.

Cardinal a 2-0 series lead over the Cougars.

The announcement of the extension stated that the next four of five games in this eight-game series will be played at Stanford.

The extension adds contests in 2026 and 2028 in Stanford and 2031 and 2035 in Provo to the games already set for 2020 and 2022 in Stanford and 2025 and 2029 in Provo, according to BYU Athletic Communications Associate Director Brett Pyne.

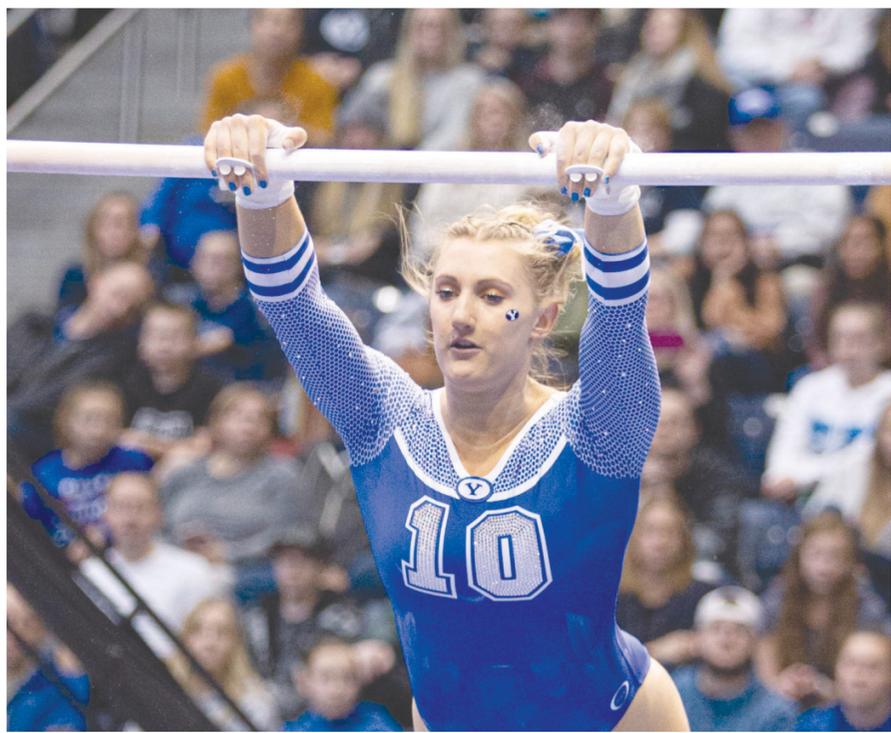
BYU is no stranger to playing Pac-12 schools, with six Pac-12 opponents on the schedule between 2020 and 2021 — Arizona State, Arizona, Utah,

Washington State, USC and Oregon.

Upcoming BYU-Stanford games

Nov. 28, 2020 at Stanford
Nov. 26, 2022 at Stanford
Sept. 13, 2025 at BYU
Nov. 28, 2026 at Stanford*
Nov. 25, 2028 at Stanford*
Sept. 1, 2029 at BYU
Aug. 30, 2031 at BYU*
Sept. 1, 2035 at BYU*

*Games added through extension
Kickoff times and television plans for the games will be determined and announced during the scheduled seasons, said Pyne.



Hannah Miner

Abbey Miner competes on bars during a meet against UCLA on Jan. 18. BYU gymnastics is currently ranked 15th.

Abbey Miner leads gymnastics to strong start

By EMILY STRONG

No. 15 ranked BYU gymnastics Team started their 2020 season with strong performances in their opening meets.

BYU had a home meet against Utah State and then-ranked No. 5 UCLA on Jan. 18. The meet resulted in BYU's highest team finish of the season. BYU finished in second with strong performances across all the events and a score of 195.875.

BYU shined on vault, with Abbey Miner matching her season high of 9.850, Shannon Evans earning a 9.800 and Jordan Danbury Matthews setting a new career high of 9.750.

Sophomore Sadie Miner led BYU on the balance beam, with a new career high of 9.825 — a much-needed mark after BYU struggled with the event.

The first-ever Rio Tinto Best of Utah NCAA Gymnastics Meet took place Jan. 11 at the Maverick Center. The meet included teams from University of Utah, BYU, Utah State and Southern Utah University. Utah took home first place as a team, but it was BYU gymnast Abbey Miner that came away with the all-around title.

"For me it's just been a goal of mine since coming into college to compete in all-around, it's not necessarily about getting the highest score but just hitting my routines like I do in practice," Abbey said. "I'm glad that my hard work is paying off and that I can hit with consistency."

Abbey won first place in the all-around competition with a total score of 39.250. She scored above 9.700 on all events, with her highest score coming in at 9.875 on the floor exercise. This was Abbey's second all-around win of the 2020 season so far, including the season opener against No. 15 Nebraska last

month. She also set new career bests on uneven bars and achieved an all-around total of 39.325.

"We are super proud of Abbey Miner," coach Guard Young said. "To get to all four events is an accomplishment within itself, and to take the all-around title with some great competition out on the floor is awesome for her and awesome for our program."

Along with Abbey's win in the all-around competition, BYU also won the vault event. Leading the way was Abbey's sister, Sadie, who scored 9.900, a new career high that won her the vaulting event.

"I was super pumped. Actually, I went up to give Abbey two high fives," Sadie said. "I saw my score and I was just like, 'You got this, it's your turn now.'"

Along with her two first-place finishes, Abbey was also named the Mountain Rim Gymnastics Conference Gymnast of the Week. Sadie took home an MRGC award for vault because of her performance during the Best of Utah meet. The MRGC includes Boise State, BYU, Utah State and Southern Utah. BYU is currently ranked No. 1 within the MRGC after their first meet.

"My freshman year I don't think I got any awards and my sophomore year I think I had a few on vault, beam and floor, so that was really cool, but Gymnast of the Week for me was super cool because I had never gotten that award before," Abbey said.

Shannon Evans has been recovering from an injury she got sustained in November of 2019, but she has been training to compete for her senior season. For the Best of Utah meet, her debut meet of the 2020 season, she stunned the audience with an intricate vault and solid landing, earning her a score of

9.850, which tied her with fellow Cougar Abbey and University of Utah's Kim Tessen. Evans strong performance on vault helped BYU finish the meet with the top scores for the event and aided in their second place team finish.

Young said Evans is calling all the shots.

"She knows her body, and we are happy to let her make those decisions because she has built that trust over the last three years," he said. "We know she's a fighter and how tough she is. She will be back and she will be back in the all around. She just needs a little bit more time."

BYU recorded a new season-high in its meet on Jan. 24 against Southern Utah University. The team recorded a score of 197.075 with Abbey again leading the way as she scored a near-perfect 9.950 on the beam, a new career-high for the junior.

On Jan. 31, BYU brought its record to 6-2 overall while posting a perfect 5-0 in conference meets by beating reigning conference champion Boise State. Abbey helped lead the Cougars to victory, posting a 9.80 on vault, 9.80 on beam and 9.85 on her floor routine. Also highlighting the day for BYU was Haley Pitou, who scored a 9.85 on vault and 9.90 on the bars, while Sadie notched a 9.85 on vault, 9.85 on beam and a 9.80 on her floor routine.

The first five meets of the 2020 season have shown No. 15 BYU gymnastics coming out strong. They hope to continue that momentum throughout the rest of the season.

"While victories and losses are fun, we really look internally to how we are performing as team BYU," Young said. "Obviously our team goals are very high — we want to make it to nationals this year and be in contention for a conference title at the end of the year."

#BYU hacks

The 'how to' at BYU

How to Live with Roommates



AUBREY TANNER



Scan the picture on the phone using the Universe Plus app to view this hack!

TWO

AFRAID TO ASK HIM OUT?

Pause to peruse pain-free principles in the latest edition of TWO.



Pick up the newest edition of TWO on racks around campus.

Dilbert®

THIS WEEK I REORGANIZED THE TECH LAB FROM TOP TO BOTTOM.

WERE YOUR CO-WORKERS GRATEFUL?

YES, ASSUMING THEY SHOW IT BY RUM-MAGING THROUGH THE WRONG DRAWERS AND CURSING.

MARKETING IS COMPLAINING THAT YOU'RE NOT USING THEIR IDEAS.

THAT'S BECAUSE ALL OF THEIR IDEAS ARE MORONIC.

I TOLD THEM I FIRED YOU. DON'T LEAVE YOUR CUBICLE OR USE ANY DIGITAL DEVICES UNTIL THIS BLOWS OVER.

Peanuts®

LOOK! I RECEIVED AN ANSWER FROM JOE SHLABOTNIK!

"DEAR FRIENDS I ACCEPT YOUR INVITATION TO ATTEND THE TESTIMONIAL DINNER FOR MR. BROWN... MY USUAL FEE FOR SUCH AFFAIRS IS ONE HUNDRED DOLLARS"

ONE HUNDRED DOLLARS?! TELL HIM THAT ALL WE CAN AFFORD IS FIFTY CENTS..

"P.S. I'LL TAKE IT!"

HOW ARE PLANS GOING FOR THE BIG TESTIMONIAL DINNER, LINUS?

GREAT! HAVE YOU EVER HEARD OF JOE SHLABOTNIK? HE WAS LAST-ROUND DRAFT CHOICE IN THE GREEN GRASS LEAGUE...

HE'S GOING TO BE OUR GUEST SPEAKER

HOW APPROPRIATE!

Garfield®

ALL IS WELL IN THE WORLD

MY WORLD, THAT IS

YOU'RE ON YOUR OWN

I'VE DECIDED TO IMPROVE MYSELF

KIDDING!

HOW COULD THAT EVEN BE POSSIBLE?

Pickles®

DO WE HAVE ANY CRAZY GLUE?

I DON'T KNOW. WHY?

THIS GLUE KEEPS FALLING OUT OF MY GLASSES, SO I CRAZY GLUE IT BACK IN. BUT I THINK WE'RE OUT OF CRAZY GLUE.

IS THAT SAFE? MAYBE THAT'S WHY YOU'VE BEEN GETTING THOSE HEADACHES. THE FUMES MIGHT BE BAD FOR YOUR BRAIN.

AND BELIEVE ME, EARL, YOU CAN'T AFFORD TO LOSE ANY MORE BRAIN CELLS.

I REALLY SHOULDN'T EAT THIS DONUT.

I KNOW A SIMPLE WAY TO CONTROL YOUR APPETITE.

YOU JUST CLOSE YOUR EYES, AND WITH ONE FINGER, PRESS THE SPOT RIGHT UNDER YOUR NOSE FOR TEN SECONDS.

YOU MEAN LIKE THIS?

HEY! WHERE IS MY DONUT?!

SEE? IT WORKS.

Non Sequitur®

THE LEGAL EXPERT PUNDIT PARADE

THIS WAY TO THE TRUTH

TRUTH IS THIS WAY

FOLLOW ME TO THE TRUTH

FOLLOW ME TO THE TRUTH

BOB FINDS AN EXCEPTION TO HIS "BETTER LATE THAN NEVER" RULE

GATE 2B

Zits®

HAW! UGLY ROBOT! WHAT DOES IT DO?

STACKS BLOCKS. JUST LIKE YOURS.

BZZRP!

...AND ELIMINATES COMPETITORS.

PIERCE! THEY SAID NO MODIFICATIONS!

HI GUYS! HOW WAS THE ROBOTICS COMPETITION?

GOOD. GOOD. GOOD. GOOD. GOOD. GOOD. GOOD. GOOD. GOOD. GOOD.

WHAT DOES "GOOD" MEAN?

THEY PROBABLY WON'T PRESS CHARGES.

Sudoku

Use the numbers 1-9 once in each row, column and marked grid of 9. Puzzles increase in difficulty from left to right. Solutions are at universe.byu.edu/sudoku.

1	7	5	9	6	4			
9					5			
		7	8	2				
6	5			4	9			
	9			1				
2	1			5	6			
		1	2	8				
5								1
8	1	6	5	4	2			

			4	7	3			
	3					4		
		5	6		1	2		
9	6				3	7		
2			6			1		
5	7				4	9		
		1	9	6	5			
	9					8		
			1	4	2			

4							6	
		8	4	1				
	3	5		4				
4	1	9		6				
2	8			5	9			
6	5	7		2				
	5		1	9				
		6	3	8				
7							2	

		1				2		
	5	2	3					
		5		9				4
7	6	9				4		
	4						5	
		3					6	7
1			7		2			
				4	3			6
	8			6				

The New York Times Crossword

Edited by Will Shortz No. 1230

ACROSS

- Wednesday
- Doing battle
- Item in a humidifier
- Hotel amenity down the hall
- 1940s-'60s singer Frankie
- Win by
- Butter substitute
- Hereditary background
- What locomotives and trams may give off
- Critical, as a situation
- One getting mostly A's in school
- China's Mao -tung
- China's Mao -tung
- Campus bigwig
- Rainbow shapes
- Obliterate
- Beavers' construction
- Item in a humidifier
- Winning time after time ... or where you might find 17-, 23-, 51- or 62-Across
- Small inlet
- Asparagus unit
- Sharpen, as skills
- Performs like Lil Wayne or Lil' Kim
- Baseball stat
- Suffix with ball
- "Or ___!" (end of an ultimatum)
- One getting mostly A's in school
- Shiny kitchen wrap
- Signifies
- Obsoltescent phone features
- Rumble in the Jungle setting
- Wallet alternative

DOWN

- Goals
- "Shoo, kitty!"
- On earth
- Fort where Davy Crockett died
- Driveway surface
- Nintendo console
- Newswoman Curry
- Swamp plants
- Merry-go-round
- Properly arranged
- Chuck Berry's "Johnny B. ___"
- Actor Sean of "The Lord of the Rings"
- Change, as a clock
- Illustrator Wilson famous for his macabre cartoons
- Six-time N.L. home run champ Mel
- Indian bread
- What the "O" of O magazine stands for
- Place for a Ping-Pong table
- 6:1 or 7:1, e.g., at a racetrack
- Fragrant chemical compound
- Standard Windows typeface
- Feather stole
- Outbuildings with garden tools
- Gem in an oyster
- Aardvark's morsel
- Excavation find
- Suffix with serpent
- Woodworking tools
- Bring together
- Chart often with insets of Alaska and Hawaii
- Jay formerly of late-night TV
- Like Brink's trucks
- Jessica of "Fantastic Four"
- King of the jungle
- Small quarrel
- Metal from a mine
- Vardalos of "My Big Fat Greek Wedding"
- Serving of corn

ANSWER TO PREVIOUS PUZZLE

MAYANS DOTCOM
EXOTIC EUROPA
MIDDLE RELIEVER
ESAU NOAH XENA
SLED RIDGE
AWAKE ISLAM
RIG STAMOS EW
CFOS OPAL AVOW
HIGHSPEED ROLL
EAT SOL
REDEDELICIOUS
TUX NINO PTA
SPIN THE DREIDEL
PETER I EL ROND
SESTET SIESTA

The New York Times Crossword

Edited by Will Shortz No. 1231

ACROSS

- Diving gear
- Home to seven "stan" countries
- Drive-up bank conveniences
- Wagner on a very valuable baseball card
- James of Her Majesty's Secret Service
- Actress Patricia of "Hud"
- *Currency replaced by the euro
- ___ a soul (no one)
- G.O.P. fund-raising org.
- Makes a boo-boo
- Apply suddenly, as brakes
- Not go bad
- Just one small bite
- Pigeon's sound
- Trip through the bush
- *Decorative garden feature with fish
- Many an adopted pet
- Star pitchers
- *Almost-identical pair, figuratively
- ___ Sea (mostly dried-up lake)
- Cried on an isthmus
- *It flows through Turin
- Big name in sunglasses
- Clinch victory in
- Result of a coup
- Top-notch
- Preachers preach it
- Oodles
- Periods after the fourth qtr.
- Duchess of ___ (Goya subject)
- Common New Year's resolution -- as hinted at by the answers to the four starred clues
- "Dear Santa" requests
- Like 2, 4, 6, 8 ...
- The mermaid in "The Little Mermaid"
- Magnetite and cassiterite
- Common first word
- ___ after class"

DOWN

- Neglects, as responsibilities
- It's reshaped by Lasik surgery
- Humanitarian org. since 1946
- Clear tables in a restaurant
- Tennis's Arthur ___ Stadium
- Call off, as a mission
- Composer whose work might be appropriate during March Madness?
- Alternative to an Airbnb
- Supplements
- Elsa's sister in "Frozen"
- Fans of Conan O'Brien, colloquially
- Cast away, like Crusoe
- Subtle acknowledgments

ANSWER TO PREVIOUS PUZZLE

DEFRAY HEEHAW
MOLIERE SIXPACK
COLD CUT AREOLAR
GRAB BINDER CLIP
LEASE THE
STIEG ALS ABCS
WINDOW TRIM LEAN
IBM NEA MET RNA
MIEN BUMPER CROP
SAME BTW UHYES
OWS ATSEA
BARBERSHOP ISLA
ORIOLES QUARTET
STAR MAN UNWEAVE
HYMNAL EKEDBY

The New York Times Crossword

Edited by Will Shortz No. 1231

ACROSS

- Give kudos
- Floral necklace
- Sentence shortener
- Yarn purchase
- Gym lifter's unit
- Tropical fruit with orange flesh
- Mafia bosses
- Olympics chant
- Like the French and Italian flags
- Silently bids adieu
- Limited, as a search
- Doctors' org.
- Thank you, in Tokyo
- Eggs on sushi
- Like some teeth, pork and punches
- Get down on the dance floor
- "God Save the Queen," for one
- Big name in chocolate and bottled water
- Zapped at a riot, perhaps
- Kagan on the bench
- Comment at a bridge table
- Herbal brews
- Egg cells
- Emotion that's "raised"

ANSWER TO PREVIOUS PUZZLE

DEFRAY HEEHAW
MOLIERE SIXPACK
COLD CUT AREOLAR
GRAB BINDER CLIP
LEASE THE
STIEG ALS ABCS
WINDOW TRIM LEAN
IBM NEA MET RNA
MIEN BUMPER CROP
SAME BTW UHYES
OWS ATSEA
BARBERSHOP ISLA
ORIOLES QUARTET
STAR MAN UNWEAVE
HYMNAL EKEDBY



Associated Press

Students gather during a vigil at Pine Trails Park for the victims of a shooting at Marjory Stoneman Douglas High School in Parkland, Florida.

Mental health apps help students

By HARRIET NORCROSS

Experts say mental health apps, while unable to replace in-person counseling, can provide many benefits to students.

Devotionals and student activities have emphasized mental health at BYU since the suicide of a student on campus in December 2018. In September, three new counselors joined the BYU Counseling and Psychological Services (CAPS) staff. With 32 full-time counselors, there is one for every 1,047 students. Although this is better than the recommendation given by national mental health experts (they suggest universities provide one counselor for every 1,500 students), waitlists at CAPS are six weeks long and mental health services remain in high demand.

University Communications announced in an email to students at the beginning of November that BYU is providing students and employees free premium access to the mental health app Sanvello.

According to Klint Hobbs, an assistant clinical professor and psychologist at BYU CAPS, mental health apps can be convenient and helpful in improving mental health.

“Just like physical health apps can be a good way to track progress, learn tips for health or connect with others who want to be healthy, mental health apps can do similar things,” he said.

Unlike in-person counseling, apps are low-cost and always available; however, efficiency varies, depending on both the app and the user, Hobbs said. Compared to a counselor, apps are self-directed and cannot hold users accountable. In addition, the apps are limited in their ability to meet individual users’ needs.

“If you were working with another person, they could adjust rapidly to what you need even if something unexpected comes up,” Hobbs said. “The app can’t do this.”

These apps teach skills and can help with organization and tracking therapy but are not usually as effective as in-person counseling, Hobbs said.

“As for really getting into interpersonal dynamics, relationship distress, family history — some of the deeper aspects of therapy — the mental health apps don’t really access these,” Hobbs said.

Another determining factor in the efficiency of these apps is the consistency of use.

“I’ve seen a number of cases, and I’ve fallen into this, too, where people download the app and then get busy, ultimately not using the app at all,” Hobbs said. “Those who use the app report liking it very much, and those who use it regularly benefit the most.”

Jon Cox, a psychologist, associate clinical professor and group coordinator at CAPS, said consistency and motivation can be difficult for someone who is struggling with mental health difficulties.

Cox said mental health apps are also limited in their structure, content and presentation of content.

“Mental health apps are like reading a textbook or doing a worksheet for a class, while in-person mental health treatment is like having a personal tutor for that class,” Cox said.

Further integration between in-person counseling and online alternatives may develop in the future. “Already, therapists are doing Skype sessions, etc.,” Hobbs said. “You’ll likely see more integration between professionals and technology as time goes by.”

CAPS offers multiple resources, including a self-help website called SilverCloud, which also teaches ways to cope with mental illness but goes more in-depth than Sanvello. On the CAPS website, students can find recommendations for breathing and relaxing music and sound apps as well as resources for relaxation and meditation, sleep apps and various informational links.

Utah Valley schools share security measures for school shootings

By KENZIE HOLBROOK

BYU senior Makenna Olsen said she’s had nightmares about school shootings.

“It seems like it’s becoming such a trend in our nation,” Olsen said.

As an elementary ed major who has visited different schools in the area, Olsen said every time she goes into a new school, one of the first things she thinks about is exit options and what she would do in that particular situation if an active shooter situation occurred.

“I for sure think that schools need to amp up security,” Olsen said. “If we want to invest in our future, we have to invest in schools and we have to invest in security for schools.”

The Gun Violence Archive defines a school shooting as “an incident that occurs on property of the elementary, secondary or college campus where there is a

death or injury from gunfire.”

Two decades ago in 1999, the nation was devastated by one of the most significant U.S. school shootings in history at Columbine High School in Colorado. According to an article by the Center for American Progress, “state and federal governments immediately responded to the Columbine shooting by investing in visible security measures such as school resource officers, metal detectors and surveillance equipment.”

Since 1999, there’s been several school shootings and other mass shootings in the United States. With the increase of national school and mass shootings, issues on gun control and school safety have been debated nationally.

In 2018, the United States saw 113 deaths as a result of school shootings, according to an article by BBC News.

According to the Association for Learning Environments, “Public education is being

scrutinized today. Safety for school children has the nation’s attention. Every aspect of educational safety and security is under review and school districts are contemplating best practices to employ to safeguard both students and staff.”

Provo City and Alpine school districts have taken initiative in response to national and school shootings to make schools in the area more safe.

Caleb Price, Provo City School District communications director, said safety at schools is one of the district’s priorities.

“The district has done a lot of work with secure entrances, security cameras and classroom doors that are easily locked from the inside of the classroom,” Price said. “The district has also done a lot to address mental and social-emotional health of students.”

Alpine School District Board President Scott Carlson said the Alpine district has also done a lot to improve school security

over the last decade. Some of these features include secure entry points, cameras, classroom-door locks, operations protocols and procedures with local law enforcement.

Two of the changes that have already been made in some of the schools in the Alpine district include a push button on classroom door locks that no longer force the teacher to leave the classroom to lock the doors with their keys and a secured entry at the front of the school that stops anyone from coming into the rest of the school before going through the front office.

Mike Browning, director of operations for Alpine School District and overseer of the district safety committee, said the district has come a long way in the last six years with taking precautions and incorporating more security.

“We are not afraid, but we are aware and we’re preparing. We’ve got great plans in place,” Browning said.

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