



3-2019

Library Leads, March 2019, Issue 6

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Recommended Citation

University of the Pacific Libraries, "Library Leads, March 2019, Issue 6" (2019). *Library Leads*. 7.
<https://scholarlycommons.pacific.edu/library-leads/7>

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Library Leads

March 2019, Issue 6

Virtual Reality as a Visualization Tool

By Niraj Chaudhary and Josh Salyers



Using 2D images to teach or learn the structure of 3D objects is typically difficult. Virtual Reality (VR) has the potential to visualize complex 3D structures in a way that provides a rich, interactive, and engaging experience.

Healthcare programs have been the biggest early adopters of VR because of the encouraging results of recent studies that demonstrate increased learning and training efficacy for clinicians. VR programs allow them to effectively practice on computer generated models and visualize data in 3D (Aziz, 2018). The level of immersive interaction necessary to deliver this type of training requires a technology investment in on-site VR equipment.

In January 2019, a pilot study was conducted to evaluate the usefulness of VR system in the Human Anatomy course within the Physician Assistant program at University of the Pacific. A free third-party VR Anatomy application was used to visualize and identify structures during two planned laboratory times. The first experience was to visualize the heart along with valve

teaching aid.

1. 36 (N = 46) students, or 78% students agree or strongly agree that the addition of VR increased their understanding of anatomical concepts.
2. 33 (N = 46) students, or 72% students agree or strongly agree that the addition of VR was a meaningful use of their time.
3. 33 (N = 46) students, or 72% students agree or strongly agree that the addition of VR will carry over into clinical applications.
4. 36 (N = 46) students, or 78% students agree or strongly agree that they are interested in using VR in other courses.

The addition of Virtual Reality to Anatomy Lab added to my understanding of anatomical concepts

Answer Choices	Responses	
Strongly agree	32.61%	15
Agree	45.65%	21
Neither agree nor disagree	17.39%	8
Disagree	2.17%	1
Strongly disagree	2.17%	1

The addition of Virtual Reality to Anatomy Lab was a meaningful use of time

Answer Choices	Responses	
Strongly agree	32.61%	15
Agree	39.13%	18
Neither agree nor disagree	19.57%	9
Disagree	6.52%	3
Strongly disagree	2.17%	1

I feel that the addition of Virtual Reality to Anatomy Lab will carry over into clinical applications

Answer Choices	Responses	
Strongly agree	19.57%	9
Agree	52.17%	24
Neither agree nor disagree	15.22%	7
Disagree	10.87%	5
Strongly disagree	2.17%	1

I am interested in using Virtual Reality in other courses

Answer Choices	Responses	
Strongly agree	34.78%	16
Agree	43.48%	20
Neither agree nor disagree	15.22%	7
Disagree	4.35%	2
Strongly disagree	2.17%	1

Works Cited

Hassan A. Aziz 2018, "Virtual Reality Programs Applications in Healthcare", *Journal of Health and Medical Informatics*, vol. 9, no. 1. Available: <https://www.omicsonline.org/open-access/virtual-reality-programs-applications-in-healthcare-2157-7420-1000305.pdf>



Flying with Purpose!

by Niraj Chaudhary

Once limited to military use, application of drones is rapidly emerging in various industries. Drones are becoming a valuable tool in a variety of industries such as journalism, agriculture, entertainment, construction, mapping, delivery, security and surveillance. In higher education, drones are creating opportunities for research and content creation.

At Pacific, we have been working with faculty and students from the College of Pacific and the School of Engineering and Computer Science on integrating drones into the curriculum. One such example is the Mapping project. We are working with a student in the Civil Engineering department who is developing an evidence-based educational module that will help future students learn how to map river basins using images collected by a drone. Students, faculty and staff at Pacific can check out drones (and pilots) from the University Libraries.

If you have other ideas for the application of drones with your course or a project, contact The Cube for more information - cube@pacific.edu, <https://www.pacific.edu/university-libraries/services/the-cube.html>.

Student Stories - Mia Watts

By Michele Gibney and Mia Watts



Mia Watts with the Janet Leigh exhibit she helped curate as a student assistant.

There is a lot that can be said about involving students - especially undergraduate students - in the research process. You can introduce them to primary source materials, demonstrate the scope of a project and let them create workflows and best practices

All of this can lead to them being more involved in their studies and with their institution. But none of that might be successful unless the student comes to you with a spark: the spark to learn and be involved in the process. In the Holt-Atherton Special Collections and Archives (HASCA), one of the most recent success stories comes in the form of Mia Watts. Mia started working as a student assistant in HASCA during her sophomore year in 2016. After graduating through the Conservatory of Music with her BA (major in Music History, minor in Public History and Museum Studies), Mia was promoted to Archives Project Specialist in February 2019.

Mia's "spark" came from binge watching the TV program, "[Mysteries at the Museum](#)", after which she said, "I went directly down to the archives that next week and asked what I needed to do to work there and have been here ever since!" This is the kind of gripping impetus that can drive students to discover their passion and pursue it no matter what it takes. Of course it helps to have involved mentors and Mia has received support and appreciation from the staff in HASCA throughout her tenure.

When asked what about her favorite HASCA project from her student days, Mia recounted the following:

I've had so many incredible opportunities to work on several interesting projects at HASCA, it's quite hard to pick a favorite. If I had to choose, I would say working as a Student Research Assistant on the

formally processed and organize some of his legislations, but in the end, the whole project was very rewarding. Working on that project spawned other opportunities such as getting the chance to speak at the UOP premiere of the documentary as well as appearing as a guest speaker with Dr. Teresa Bergman on Capital Public Radio. Those kinds of experiences don't happen very often and I'm very fortunate to have been a part of them.



Nat Katzman (center) talks with Teresa Bergman, Michael Wurtz, Chris Cannon, Mia Watts and Qiana Moore about the research work students have done for an upcoming documentary film on George Moscone '53. Katzman is the director of the film.

Her current project involves working with a Spanish gradual, a music book used in Catholic services, that belongs to the UA and has remained relatively unrecognized by the general public. It is very large and very old, from around the 16th century, and is filled with old mensural notation. As an aspiring musicologist, this book immediately caught her eye but the exact origins of the book remain unknown. She chose to make her senior project about the gradual and try to discover its provenance and uncover any information about where it came from. Unfortunately, a lot of the research is based on speculation and deduction - as no formal documentation for the gradual exists. Mia presented her research at the Conservatory Student Poster Session this past Friday, Feb. 22 and plans to submit to the Pacific Undergraduate Research and Creativity Conference (PURCC) this coming April.



Scan of the Gradual

When asked about the future, Mia has great plans.

I am currently taking a gap year but I plan to continue my studies and earn my Masters in Library and Information Science (MLIS). I am especially interested in dual masters programs where I could get an MLIS as well as a degree in Musicology or Music Librarianship with a specialization. I'll begin the application process soon, but for right now I'm enjoying working and giving my student brain a break. My absolute dream job would be to work as a music librarian/archivist in the Bodleian Library in Oxford, UK. Will that happen? We'll see. I do know I want to continue working in a library and/or museum setting with old music manuscripts like the Gradual. Getting that far would be a dream come true!

The lucky coincidences of Mia watching all of "Mysteries at the Museum", convincing HASCA staff to hire her as a sophomore, and taking part in some truly remarkable projects have all led to a wonderful student success story. Not only did Mia arrive with a spark but she has maintained it for three years and plans to go on being awesome at everything. We'd like to think she'll be hosting "Mysteries at the Museum" by the 31st season.



Veronica presenting at the 88th Annual Music Library Association Meeting

Conference Notes from the Field

by University Libraries

Many of the Library staff and faculty attend conferences around the country (and the world) but, in general, we aren't all attending the same ones. In an effort to share back what we learn with our colleagues we will be including a periodic 'Conference Notes' column to which anyone can contribute, just email libraryleads@pacific.edu after a conference!

On February 19th, Niraj and Thy attended Working on Workshops: A Little Pedagogy Goes a Long Way pre-conference workshop at the Code4lib 2019 Conference in San Jose. The workshop had attendees forming groups to develop a workshop that is fleshed out for the rest of the session. Once established, groups had to implement backward design that began with identifying and writing clear learning outcomes from three categories: skills, knowledge, and understanding. The last two sessions asked groups to develop a learning plan for their workshops and applying assessment.

As groups shared their learning plans and assessments, everyone had agreed upon the same common challenge: how do you measure the learning? Some ideas suggested by the presenters are "show of hands" questions, circulating during the hands-on time, listening in to small group discussions, and addressing questions or confusions that arise during large group discussion. This serves to be effective as it will allow the workshop lead to gauge their audience understanding and make small adjustments to improve their learning throughout the session.

Overall, it was great to network with peers from different institutions and learn about the various practices used. The workshop provided an excellent framework for workshop

Veronica attended and presented at the 88th Annual Music Library Association Meeting in St. Louis, MO in February. The overall theme of the conference was diversity and inclusion, so there were many presentations and discussions on how we can better serve our users, institutions, and the profession through this lens. Veronica did two presentations at MLA this year. She co-presented on a session called "Lessons on Diversity in Bias" where she talked about a lesson plan she designed for students that highlights the lack of diversity in American orchestras and the American Music Industry. And then she did a poster presentation on the SAILS Test longitudinal study that was conducted on students' info literacy skills at Pacific. Veronica reported that both presentations sparked a lot of great conversations and ideas for herself and for others.



Veronica and colleagues at the 88th Annual Music Library Association Meeting

Nicole and Mike attended the ALCTS webinar on Restructuring & Reimagining Digital Collections on February 6, 2019. The session discussed the roles and responsibilities of the membership in a multi-unit group, as well as the nascent workflows and experiments with new communication paths. The group had developed new tools to support these new ways of interacting with each other and the tasks associated with making digital content available.

Their group and projects were much larger than the types and challenges we face here at Pacific. However, Mike picked up a few tips that he suggests will optimize HASC/UA workflows for digital projects

Kate attended a webinar offered by the Medical Library Association & sponsored by a grant from the National Network of the Libraries of Medicine, Pacific Southwest Region titled Helping Science Succeed: The Librarian's Role in Addressing the Reproducibility Crisis on February 13, 2019. She reports that a failing of scientific studies is the dismaying finding that they are often not reproducible. Reproducibility has been defined

in 2015 really jump-started the conversation on identifying causes, issues, and solutions. Whether it is a crisis is up for debate but reproducibility itself usually falls victim to poor study planning rather than deceit. This is where librarians can help. Academic librarians have a role in teaching best methods in study design to current and future researchers. This can entail understanding the importance of building transparency into each aspect of the study, clearly and thoroughly reporting methods used, adhering to reporting guidelines like those found [here](#) and [here](#), and advocating for the reward of open and reproducible practices. Great webinar and new fodder for instruction.



Diablo Valley College in Pleasant Hill, CA for the Northern California Regional OER Summit

On February 22nd, Michele attended the free one-day event at Diablo Valley College in Pleasant Hill, CA of the Northern California Regional OER Summit. This Summit was primarily directed at community colleges in California and their adoption and adaption of open educational resources, however it was fascinating and helpful to see what was happening at the community college level in CA in comparison to what we are doing at Pacific. Some highlights included presentations by Delmar Larsen, the founder of Libretexts, and Barbara Illowsky, current OER & Innovation Fellow from the Michelson 20MM Foundation. New services from Libretexts include built in remixing tools in the platform which can be helpful for our faculty if they choose to use Libretexts in their OER creation. Illowsky showcased a project to create OER-enabled course shells in Canvas using the OpenStax textbooks - which, again, could be very helpful for our faculty who are looking to adopt lower level courses aimed at freshmen/sophomores and using the OpenStax books - this includes 11 math courses, 7 business courses, as well as several social sciences (History, Economics, Psychology, etc.) and hard/life sciences (Biology, Chemistry, Physics, etc.).

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Michele's new favorite OER marketing although she is unsure why it is not "OER you kitten me?"

Earlier in February and in January, Michele also conducted several workshops at universities in Kosovo on scholarly communication topics while in residence during her Fulbright. [You can read more about three of them by clicking here.](#)

That's it for our professional development highlights from January/February! If any other Library staff would like to share back on what they learn and experience at future conferences, symposium or webinars, feel free to drop a line to libraryleads@pacific.edu.

STATISTICS

Scholarly Commons

- Scholarly Commons had 12,659 full-text downloads and 685 new submissions were posted, bringing the total works in the repository to 41,868. University of the Pacific scholarship was read by 1,389 institutions across 154 countries.

Link+

- 2,877 books loaned out to California & Nevada libraries
- 695 users

Kanopy

- 101,200 minutes of videos streamed

UPCOMING AWESOMENESS

Scholarly Communication Talks on March 4, 12, and 28 (includes free River Room lunch!): [Read more about them here](#)

March 4-8 is Open Education Week - a global event - check out the Library and CTL's display and information table by the Ask Us desk this week or visit <http://go.pacific.edu/oer> to learn more!

A WASC Accreditation site visit will occur on the Stockton campus March 5-7, 2019. [See more about the visit by clicking here.](#) University Libraries will host an info table and John Muir exhibit in the DUC during the site visit.

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the Stockton campus and Library during the week of March 11th to discuss potential collaborations

DID YOU KNOW?

Pacific Libraries is now part of a consortial membership to Open Library of Humanities (OLH) along with 11 other SCELCLC university libraries. From their FAQ: "OLH is an extremely cost-effective solution for open access in the humanities disciplines. For less than a single Article Processing Charge's (APC) worth of funding at for-profit entities, we publish and support 27 journals, all of which are gold open access with open licenses, and we never charge authors fees." [Read more about OLH by clicking here](#)

TRIVIA

Participants have until Friday, March 8th to submit answers. The correct submitters will be put in a raffle and the participant name that is drawn will receive the trophy prize. Please submit your answer via email to libraryleads@pacific.edu.

1. 'Conan the Librarian' appears briefly in Weird Al Yankovic's movie 'UHF'. What does Conan do to a library patron who has an overdue book?

- a. Bashes his head on the desk
- b. Slices him in two with his sword
- c. Fines him one thousand dollars
- d. Yells and screams at him

2. Which one of these is not the name of one of the Librarian television movies starring Noah Wyle?

- a. The Secret of the Holy Grail
- b. The Curse of the Judas Chalice
- c. Return to King Solomon's Mines
- d. Quest for the Spear

3. What show did Mia Watts confess to binge watching?

December Questions and Answers:

1. How many Scholarly Communication Talks are left this semester?

Answer: 1 ("0" also accepted as an answer depending on when in the week the submission occurred)

2. What city is the official birthplace of Marvel's Fantastic Four?

3. How many months have 28 days?

Answer: 12 (trick question, they all have 28 days)

DECEMBER TRIVIA WINNER - CINDY JACKSON

Winner of this month's trivia questions will win the special honor of hosting the trophy on their desk for the next month!



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