Florida State University Libraries

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FSU Libraries Office of Digital Research & Scholarship Annual Report: 2020-2021

Matthew Hunter, Laura Miller, Rachel Smart, Devin Soper, Sarah Stanley and Camille Thomas

FSU Libraries Office of Digital Research & Scholarship Annual Report: 2020-2021

Pictured back row from left-to-right: Matthew Hunter, Devin Soper, Sarah Stanley, and Dave Rodriguez. Front row from left-to right: Camille Thomas, Laura Miller, and Rachel Smart.

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About DRS

The Office of Digital Research and Scholarship partners with members of the scholarly community at FSU and beyond to engage with and act on innovative ideas in teaching, research, and creative activity. We privilege marginalized voices and unique contributions to scholarly discourse. We support interdisciplinary inquiry in our shared pursuit of research excellence. We work with scholars to explore and implement new modes of scholarship that emphasize broad impact and access.

Our dream is to create an environment where our diverse scholarly community is rewarded for engaging in innovative modes of research and scholarship. We envision a system of research communication that is rooted in open, academy-owned infrastructure, that privileges marginalized voices, and that values all levels and aspects of intellectual labor.

In addition to the accomplishments related to our core work areas outlined below, we also developed an [Anti-Racist Action Plan](#) in 2020 and continue to work on enacting and periodically revising and updating the goals outlined therein.

DRS Staff

Matthew Hunter,
Digital Scholarship Librarian

Laura Miller,
Visiting Open Publishing Librarian

David Rodriguez,
Resident Media Librarian (through Fall 2020)

Rachel Smart,
Repository Specialist

Devin Soper,
Director of DRS

Sarah Stanley,
Digital Humanities Librarian

Camille Thomas,
Scholarly Communication Librarian

Open Publishing

Our publishing program provides FSU-affiliated scholars with the tools and expertise to disseminate their work to a global audience and to maximize its impact. 2020 was an extremely productive year for our publishing program, and this success was mainly thanks to the tireless efforts of our Visiting Open Publishing Librarian, Laura Miller, without whom the accomplishments reported in this section simply would not have been possible.

Florida State Open Publishing

In the fall of 2020, we launched [Florida State Open Publishing](#) (FSOP), FSU's first open-access publishing program. FSOP provides the university's faculty, staff and students with the digital publishing tools and support needed to produce peer-reviewed, open scholarly publications, open educational resources and other digital research outputs. Created to address gaps in traditional scholarly publishing, FSOP aims to make FSU's scholarly output more accessible, diverse and innovative.

Designed to serve as an alternative to commercial academic publishers, FSOP is a digitally focused, fully open-access publishing program that supports a diverse range of publications and projects, including experimental scholarship and student research. The program offers platform hosting, technical support and other publishing support services for peer-reviewed journals, open textbooks, monographs, research reports, conference proceedings and additional forms of digital scholarly publishing.

FSOP welcomes projects from all disciplines, languages, and FSU-affiliated authors regardless of the scope of their work. Founded on principles of inclusivity and diversity, the program is particularly interested in promoting scholarship by or about underrepresented groups. FSOP's publications are released under flexible copyright licenses that allow authors to retain their copyrights. This enables authors to share their work with colleagues and research communities and reuse their work in innovative ways.

The program has helped scholars like Dr. Giray Ökten, associate chair for Graduate Studies and director of Financial Mathematics & Professor, publish their work. "Thinking about my experiences with various [traditional] publishers, I can say that the quality of publishing services FSU Libraries provided was top-notch! To this day, they continue helping me with occasional updates of the book. They are very capable and prompt. I encourage FSU colleagues to explore publishing open access with our wonderful libraries!"

The DRS team also worked closely with an iSchool Graduate Assistant, Liz Rios Hall, to develop a [strategic communications plan](#) for FSOP that we plan to enact starting in the fall of 2021.

Manifold

We added a new publishing platform to our services in Fall 2020. [Manifold](#) is a collaborative, open-source platform for scholarly publishing developed by the University of Minnesota Press, the Graduate Center of the City University of New York and Cast Iron Coding with funding from the Andrew W. Mellon Foundation. This platform enables authors to transform their traditional scholarly works into dynamic digital publications through integrating supplemental resources such as raw data, audio, video and more.

Manifold provides scholars at FSU a digital space for their innovative research. FSU faculty and students can publish digital scholarship with multimedia, interactive content and annotation tools. They can also use the platform to upload custom versions of texts, openly licensed textbooks and course materials as Manifold projects. In addition, readers benefit from engagement tools like annotation, highlighting, community sharing, and discussion threads.

Open Textbooks

We released two new open textbooks on Manifold in Spring 2021. These college-level STEM textbooks provide students and instructors with free, openly-licensed alternatives to commercial textbooks. Both books are licensed for reuse under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 license.

Bio-Inspired Sensory Systems: Using Natural Photo-, Mechano-, and Chemo-Sensory Systems for Design Inspiration

Bio-Inspired Sensory Systems: Using Natural Photo-, Mechano-, and Chemo-Sensory Systems for Design Inspiration by Florida State University Panama City faculty member Dr. Geoffrey Brooks introduces concepts and designs related to bio-inspired sensory systems. Using natural sensory system concepts to develop and improve sensory systems will continue to thrive for many years to come. Technology advances rapidly (Moore's Law) as does our understanding of biological principles and designs. These trends fuel the fertile grounds of bio-inspired sensory systems, a topic that is inherently multidisciplinary. This

book will serve well as either an academic text on the subject or an introduction to the variety of proven bio-inspired designs. The focus is on sensory systems that interpret environmental stimuli. It introduces natural photo-, mechano-, and chemo-sensory systems across the animal kingdom and also summarizes various novel engineering ideas that glean ideas from these natural sensory systems.

Textbook homepage: https://doi.org/10.33009/fsop_brooks0121

From Growing to Biology: Plants 1e

From Growing to Biology: Plants 1e by Florida A & M University faculty Dr. Gokhan Hacisalihoglu brings the latest information for understanding of traditional and modern plant growing, form, and production. Topics covered in 30 chapters include concise and up-to-date ‘big picture’ infographics, student learning outcomes (SLOs), key vocabulary, assessment, as well as identification of 120 species, and more. Moreover, author Dr. G. Hacisalihoglu emphasizes on learning concepts, binding those concepts together with a visual approach to make learning faster and more memorable.

Textbook homepage:

https://doi.org/10.33009/fsop_hacisalihoglu0421

Journals

In December 2020, Florida State Open Publishing began hosting [ItaliaNoles](#) on Open Journal Systems. ItaliaNoles is a magazine produced by students at the FSU Florence Campus featuring editorials and interviews on Florence culture, cuisine, student life, and other special topics. The magazine is sponsored by the School of Communication and International Programs.

In Spring 2021, [The Owl](#), FSU’s undergraduate research journal, was added to the Directory of Open Access Journals, the leading index of open access, high-quality scholarly journals. The addition to DOAJ enhances the journal’s reputation, visibility, and discovery, furthering the credibility of its published students as budding researchers. This achievement was recognized in this University News [feature](#).

Edited Collections

The addition of Manifold to our publishing platform offerings created an opportunity to migrate previous publications to the new book-friendly platform. In Summer 2021 we migrated an edited volume on vocational psychology from Open Journal Systems to Manifold. *Integrating Theory, Research, and Practice in Vocational Psychology: Current Status and Future Directions* brings together concepts and presentations from the 2016 Society for Vocational Psychology conference held at Florida State. Migrating this book to Manifold introduced a more flexible user experience for readers as well as highlighting and annotation tools to increase engagement with the text.

Open Publishing Support

DigiNole Research Repository

The DigiNole Research Repository is a curation and digital publishing platform that hosts a growing number of creative and scholarly works produced by the Florida State community.

Highlights from 2020-21 include:

- FSU Islandora migration project
- Strategic Initiative Proposal “ADA Accessible Electronic Theses and Dissertations”
 - Honors Theses pilot project
 - Proposal was approved by LibTeam
- Conscious editing
 - Identify outdated, harmful and current terms used to describe records
- Honors Theses audit
- PMC workflow updates
- IR Manager workflow screencasts
- Masters Project Track -- exploring capabilities to support non-standard ETDs

Last year (2019-2020), an estimated 1200 objects were uploaded to the repository and this year (2020-2021) that's been cut in half. Due to two parallel systems migrations (DigiNole and Alma) and unfilled positions, Electronic Theses and Dissertations are far behind schedule and only one batch was uploaded in Fall 2020. There is not much that can be done about this at the moment. Both migrations are progressing and positions are filled, and I am optimistic that ETD processing will start moving before the end of 2021. There were no bulk OA content uploads for 2019-2020 due to the added complexities of managing FLVC Islandora and FSU Islandora gap content.

Total Objects Uploaded to DigiNole 2020-2021 (2020-07-22 - 2021-06-07)

- Total ingested objects: 532

- # of deposits - faculty scholarship: 196
- # of deposits - ETDs: 137
- # of deposits - honors theses: 176

FSU Islandora Migration Project

FSU's institutional repository, Diginole, is shifting from being hosted under FLVC's architecture to one that is maintained, in-house, by FSU Libraries. The migration involves a complex, multi-layered process that includes 1) building and sustaining this technical infrastructure in a cloud-based computing environment (Amazon Web Services), 2) deploying an updated version of the repository's software stack (Islandora) within this environment, and 3) transferring the contents of the old repository to the new one in a way that maintains their integrity and discoverability. Updates to the overall look and feel of the repository are also being implemented in addition to new features and functionalities that were not available through the old system.

DRS contributed to this project by in the following ways:

Communications

Following the presumed loss of FALSC support to state budget cuts, the Research Repository Manager began work on a webpage to direct users to detailing the planned migration and loss of FALSC. A communications subgroup of the DigiNole Working group was formed, and the group reviewed the migration webpage and discussed how to address a potential loss of service to the digital repository, uploading obstacles, shared language across DL and RR, and whether or not to include any mention of FALSC. The [Migration webpage](#) was reviewed several times before being published in early 2021.

We are currently planning future outreach and training for the new DigiNole repository.

ISLE Testing

In September 2020, several members of DWG began testing the functionality of Born Digital's instance of ISLE, their version of an Islandora 7 repository platform. We had a very short amount of time to complete testing of ISLE, due to the contract with Born Digital concluding at the end of September.

PURLZ server/API testing

Permanent links to item records are a level of support previously provided by FLVC that FSU Libraries is now responsible for maintaining. These permanent links allow for large scale URL changes without negatively impacting the discoverability and access to items in the repository via broken direct links. These direct links and target URLs are managed by the PURLZ server. In November 2020, Web Dev and Research Repository Manager began the process of reviewing and researching PURLZ server documentation. The Research Repository Manager tested the PURLZ server's administrator interface and its creation of direct links individually and in batch on a virtual machine (VM). Web Dev used the results and documentation of this work to build backend connections between FSU-Islandora and the PURLZ server, and to facilitate further testing of the server.

Theme Stakeholders Testing Group

In December 2020, the Theme Stakeholders Testing group was formed to test the FSU-Islandora (hosted by FSU) theme and display features of every CModel to ensure minimal viable functionality at public launch of FL-Islandora (hosted by FLVC). Facilitated by Web Dev, each CModel was audited and reviewed in ISLE-DEV to determine the current issues in the theme/display of FSU-Islandora and what needed to be ported over from FL-Islandora.

Solr Search Testing, Facets, and Metadata display

[Solr](#) is an open source application that powers the indexing, search, and navigation of the FSU-Islandora platform. DRS contributed to decisions regarding required metadata fields, metadata indexed by Solr for search, user friendly labels for metadata fields, and Facets and their display labels. We also contributed to testing Search functionality and decisions regarding Advanced Search block elements and their display labels. DRS contributed significantly to metadata display and page layout of citationCModels, thesisCModels, and compound objects.

Asynchronous Ingest System (AIS) Testing

The AIS module is a method for submitting packages for ingestion to DigiNole that does not require the user to be active on the site. This is a method primarily designed for the Digital Library whose users frequently upload large batches of content that would overwhelm other mechanisms for ingest. This module was developed by the Lead Repository Developer, and the Research Repository Manager and Digital Archivist participated in the testing of AIS.

Gap Content Ingest

“Gap Content” is used to refer to all items uploaded to DigiNole and all changes made to items between the dates of July 22, 2020 and the July 15th, 2021 public launch date scheduled for FSU-Islandora. The items ingested and record changes that fall in this date range are not included in the data package containing the bulk of DigiNole content being transferred from FL-Islandora to FSU-Islandora, and are not backed-up. Since July 22, 2020, we’ve recorded detailed data of every item ingested and record changes made in that period in order to successfully manage a challenging manual ingest process of all gap content once FSU-Islandora was ready on production. We were given the green light to begin uploading gap content in mid April as part of the internal “soft launch” of FSU-Islandora. On July 6th, there will no longer be any more items uploaded or changes made to records on the FL-Islandora system due to the closing deadline for updating all direct links for gap content. All uploads to the Research Repository will be paused until the public launch date.

New Research Repository Homepage

In mid April 2021, we began discussions with Web Dev around the visual display of the site. These discussions narrowed down two priorities, item level metadata/page display and the new RR homepage. The Research Repository Manager and Scholarly Communications Librarian met on a weekly basis to design and build Low-Fi and High-Fi wireframes for the RR homepage and item level page displays. All wireframes were reviewed and approved by the Director of DRS before being presented to Web Dev. After several meetings to clarify requests and approve changes, the new RR homepage and item level displays were pushed to production by the end of May. Web Dev worked diligently to see that our vision of the new displays became a reality.

Research Repository Accessibility

For the last couple of years, we've focused on improving the Accessibility of repository content to users, and in this last year there's been a steep increase in work towards that goal. In the Fall, PLAN published a blog post authored by Dave Rodriguez, detailing our efforts to provide captions and transcripts for audio-visual repository content the year before, fulfilling our funder requirements. This led to us looking more closely at the majority of the PDF content in the repository, and we further investigated methods of increasing accessible content in a sustainable way for DRS to manage. The result of these investigations was the Strategic Initiative Proposal "ADA Accessible Electronic Theses and Dissertations", its purpose being to establish guidelines and expectations of document accessibility for incoming Theses and Dissertations and Undergraduate Honors Theses. The proposal was approved by LibTeam in May 2021, and the Review Phase of the Pilot Project detailed in the proposal is currently underway. To read more about the proposal, click [here](#).

Open Access Publishing Fund

The Open Access Publishing Fund is available to all FSU faculty, staff, post-doctoral fellows and students and supports publishing costs for eligible open access (OA) journals and books when no alternative funding is available, thereby fostering the exploration of new and innovative publishing models. In the 2020 -2021 fiscal year, the fund offered much needed support to further access to research, as evident in recent testimonials from award recipients.

- Highlights
 - \$56,602.07 requested, including articles awaiting acceptance
 - \$30,895.92 awarded
 - Contributed funds toward 2 OA books and 1 book chapter
 - Funding contributions from College of Arts and Sciences (\$15,000) and the Graduate School (\$5,000)
- Performance indicators
 - 25 articles funded

Total Applications by School/College

Amount Funded by Author

Thank you for providing us with this funding. It is specifically very beneficial for me since I don't have any funding for this research and I have to pay out of pocket which is not easy for a part-time postdoc.

- Dr. Raedeh Basiri, Post-Doctoral Researcher, College of Human Sciences

I previously received funds to publish findings from my dissertation research. These funds were critical to increasing visibility of my work in reputable open access journals at a time in my career when I was building my program of research. I have since continued to publish in open access journals due to the increased exposure this format provides. The Open Access Fund is a wonderful way to support FSU research by helping researchers disseminate their findings in a timely and widely accessible format. Researchers can certainly disseminate findings via traditional publication; however, the global reach of the work would be significantly limited and may impact the science trajectory.

- Dr. Lucinda Graven, Associate Professor, College of Nursing

Open Scholars Project

The [Open Scholars Project](#) (OSP) is an informal forum to learn about and discuss developments in open access. The group will allow FSU researchers and scholars to share experiences with open publishing, code and data across subject areas. We aim to create a group that is also action-oriented and supportive in bringing faculty, postdocs and graduate students together.

The Scholarly Communications Librarian formed a Taskforce of librarians from the Strozier, Dirac and Maguire Medical libraries as well as graduate and postdoc representatives to facilitate the community of practice. The inaugural meetings of OSP took place virtually in spring 2021, covering topics and resources regarding open access. As of summer 2021, there are 55 registrants for the monthly series, with each event averaging 10 - 15 attendees. Future plans include covering open data topics, inviting Tallahassee Community College and Florida A&M University partners and moving toward safe, in-person events.

Open Education Initiative

The Open Education Initiative is dedicated to designing and promoting sustainable strategies for reducing the cost of course materials and supporting instructors in their efforts to leverage the revolutionary potential of open educational practices. Led by DRS, this initiative is a collaborative effort with participation from key partners across campus.

Alternative Textbook Grants resumed

The Alternative Textbook Grant Program resumed after acquiring a new source of internal funding. The OER Team received 10 applications in FY 20-21 and awarded \$10,000. Recipients consulted with librarians and were enrolled in a new Canvas course for asynchronous resources on implementing OER into courses. The Scholarly Communications Librarian submitted a Library Strategic Initiative proposal for a tiered program with a higher incentive amount for publishing projects on behalf of the OER Initiative Team.

The Distance and Extended Campus Librarian, a member of the OER team, piloted an ebooks in the classroom initiative at a larger scale for wide implementation on the main campus. After

two iterations of the pilot using textbook reporting data, the project was proposed as a Library Strategic Initiative.

Capital City Virtual Series on Open Educational Resources

University Libraries, in collaboration with the Office of Distance Learning and Center for the Advancement of Teaching, hosted the Capital City Virtual Series on Open Educational Resources, a monthly “brown bag” series. This was a free professional development opportunity for faculty, students and administrators in the Tallahassee community. It focused on raising awareness about [Open Educational Resources \(OER\)](#) and their potential to support student success by reducing textbook costs and creating opportunities for open, learner-centered pedagogy. [An open Canvas was used to manage the series, provide updates, and participate in asynchronous discussions.](#)

Open Education Events

Title	Descriptions	Attendance	Other Impact
Teaching, Learning, Creating & Sharing: My Journey with Open by Dr. Vanessa Dennen	“Keynote” session by faculty OER advocate in College of Education	37	Request to include OER materials in New faculty orientation, a few inquiries
OER Instructor Panel: Journeys in Open	Panel of different types of instructors who worked with OER	25	Included perspectives from FSU, TCC and Jackson U(alumni)
Open Pedagogy	Introduction to Open Pedagogy and closed discussion	7 (11)	Discussed OER initiatives with Mark Riley and Lisa Lisenio

Reflections from the OER Team

- Those new to OER thought it was a great learning experience
- We tried new things and new topics for the sessions
- Collected list of attendees for future initiatives and events
- Include K-12 OER in future discussions
- Good engagement from TCC and FAMU, but would like more in
- No participation in virtual office hours

Equity, Diversity and Inclusion in Affordability Initiative

The Libraries also began a research study analyzing the effects of textbook affordability and accessibility on low income, first generation, and transfer students at Florida State University. Recent studies have found that drop, fail and withdrawal rates decreased significantly for low

income and part-time students when OER were used in courses. Also, the average final grades of self-identified non-white students in the study were higher with OER and their DFW rates were lower. Decreasing the costs of higher education ensures a more equitable experience for all students by removing the cost barriers and giving instructors a more active role in mindfully selecting and integrating course materials to support their teaching and learning goals. This research and further recommendations about aligning affordability work with equity, diversity, and inclusion initiatives has been presented by our Libraries' OER team members at the FSU DIRECTO symposium, FSU PIE (Program for Instructional Excellence) workshop series, as well as national conferences.

FSU ORCID Taskforce

ORCID is a non-profit organization and identity technology that aids FSU faculty, staff, and students in the management of their digital scholarly identities and enables the University to assess their research activities more effectively. DRS has been leading an institutional ORCID initiative at FSU from 2018 to the present. For a full report on our contributions to this initiative to date, see the [FSU ORCID Task Force Report: 2018-2021](#). Since FSU obtained an institutional ORCID membership in March 2018, the total number of ORCID accounts affiliated with FSU email addresses has risen from 1858 to 5599, an increase of **301% over three years**. However, more work needs to be done to promote ORCID to our researchers and support them in populating their ORCID profiles. Two future strategies for advancing these goals include targeted communications to faculty from Deans and Chairs and senior university administration, as well as ITS support for building additional system integrations.

Digital Humanities

We support digital humanities projects and pedagogy through training on DH tools, methods, and platforms, advising on digital project development and collaborative research projects.

Static-Site and Web Publication Platforms

During 2020-2021, the Office of Digital Research and Scholarship was able to build out infrastructure for static site web publications. With the assistance of intern Suzanne Raybuck, Digital Humanities Librarian Sarah Stanley developed JekyllHIDE, a system for publishing static site editions using the TEI: <https://github.com/fsudrs/jekyllhide>. JekyllHIDE was used in two digital translation projects: [The Sōseki Poetry Project](#)—a translation of the poems of Natsume Sōseki by Assistant Professor Matthew Mewhinney—and Bernard Binlin Dadié: Man of Letters—translations of Dadié's poetry by Peggy Wright Cleveland.

In addition to these two translation projects, the Office of Digital Research and Scholarship participated in the creation of two static site exhibits, using the static site publisher [Ed](#). For the second year in a row, DRS hosted the [Art in STEM](#) exhibit, which showcases “the beauty and artistry of science.”

New this year was the [Amazonia Hunger](#) exhibit, which included photographs and documentation of Marcos Colón's experience on the Amazon River during the onset of the COVID-19 pandemic.

CreateFSU Web Hosting Service

Over the 2020-21 academic year, Sarah Stanley, Matthew Hunter, and Devin Soper collaborated on a project to bring Reclaim Hosting's [Domain of One's Own](#) service to FSU. This service will be available to any FSU faculty members, graduate students, or undergraduate Honors students who want a web domain to host content related to their research, meeting both research and pedagogical needs for which there is currently no solution on campus. Our work on this project began with getting buy-in from stakeholders within the libraries, including writing and soliciting feedback on a strategic initiative proposal and accompanying presentation to the Libraries' senior leadership team. Fortunately, the feedback we received was positive, and we were able to secure funding for an initial two-year pilot of the service. Next, we turned our attention outward to campus partners: Sarah gave a presentation to the Faculty Senate Technology Committee, and Devin began working with ITS, Procurement, and Legal Counsel on vetting the Domain of One's Own master services agreement and terms of service as well as setting up single-sign on authentication for the service. Being dependent on the schedules of campus partners, these processes were not concluded until the end of the spring semester. At the time of writing, however, we now have our CreateFSU instance up and running and are actively configuring it for a go-live date of July 1st. Here's a sneak peak of the homepage:

Picture: The homepage for CreateFSU (<https://create.fsu.edu>), including an image of Strozier library, with a computer desktop and laptop superimposed.

We hope that this service will provide much-needed infrastructure for FSU researchers to find a home for their digital research projects - infrastructure that promises to dramatically expand the kind and number of projects that we can support in the future.

Digital Humanities Instruction Focus Groups

During the spring of 2021, Matthew Hunter, Hannah Menendez, and Sarah Stanley conducted two faculty focus groups in order to gather feedback on what the needs are for digital humanities instruction, how best to meet those needs, and where in existing humanities and social sciences curricula digital scholarship instruction best fits. Focus group participants included eight faculty members from the departments of Art History, English, History, Modern Languages, and Musicology. Some things that we gleaned from these conversations included the need to rethink our marketing and communication strategies for the instruction we offer, to develop instruction offerings that help to address the technology skills gap for incoming students, and to better integrate what we do with the services provided by the Center for the Advancement of Teaching and the Office of Distance Learning. The feedback that we received through these focus groups was extremely valuable and will help us to improve and formalize our DH instruction program to make it as valuable as possible to DH practitioners on campus.

Technology & Innovation

We collaborate with faculty, students, and researchers on finding, evaluating, and implementing digital tools and technologies to create innovative scholarly outputs. Our goal is to both meet individual needs and enhance the knowledge-base of the campus and Libraries community. We also strive to advocate for and enhance campus and libraries' technological capacities and infrastructure for supporting new kinds of scholarship. Recently, these areas of interest were bundled together in a new initiative called "Immersive Scholarship," which captures the interactive and experiential aspects of DRS's prior work in areas of Virtual & Augmented Reality, GIS Mapping, Expansive Digital Publishing, Data Visualization, and more.

Supporting 3D & Immersive Scholarship Strategic Initiative Proposal

In the Fall of 2020, a new strategic plan for DRS's support of innovative technologies was drafted, focusing on Web hosting for Digital Projects, 3D scanning / photogrammetry support, and efforts to support Spatial Humanities Data. In early Spring, 2021, this strategic plan was adapted into a new strategic initiative submitted to the Libraries' new Strategic Planning process. This new initiative, now named "3D and Immersive Scholarship Support at FSU Libraries" was approved as a way to formalize support of the suite of services encapsulated by the previous strategic plan and in concert with other DRS initiatives relating to web hosting,

publishing, and more. This new initiative focuses on highlighting DRS services for the provision of VR, 3D scanning, and 3D printing services, and developing support for using these methods during the research process, as a form of scholarly output, and in pedagogical applications in new and creative ways. As part of this process, funding was secured for a new Graduate Assistant for the 2021-2022 academic year, the provision of a new, unified space for 3D equipment, and additional support for the Digital Scholarship Librarian's work in this area, devoted to developing and expanding support for workshops, consultations, and events that relate to Immersive Scholarship. The new GA—with a background in art history and museum and cultural heritage studies—was recruited in the Summer of 2021, and will start in the Fall to focus on recruiting campus project partners interested in exploring photogrammetric construction of models for investigating cultural heritage objects, the uses of VR and 3D experiences in scholarship and pedagogy, and the use of 3D-printing for research and pedagogy. More information about the initiative can be found on the libraries' strategic initiative project site: <https://www.lib.fsu.edu/strategic-plan/initiatives/supporting-3d-and-immersive-scholarship-fsu-libraries>

3D Scanning & Modeling

As one of the most tangible parts of DRS's support of immersive scholarship, 3D printing serves as a way to combine aspects of digital cultural heritage work, innovative research output, and interactive pedagogical practice. Several projects were undertaken over the last year to contribute to the exploration of what "research outputs" can look like in modern scholarly practice, and contributed to public and student engagement with otherwise restricted cultural heritage objects. Due to travel and other restrictions resulting from the COVID-19 pandemic, methods for displaying and engaging with cultural heritage research such as 3D printing were more in use than ever before. Several projects undertaken by DRS over the last year also directly contributed to efforts to address health concerns over accessing spaces while pandemic restrictions and lockdowns were in full force.

In the early Spring of 2020, in an attempt to help mitigate the effects of supply-chain shortages and unavailability of personal protective equipment caused by the initial shock of the COVID-19 pandemic in early 2020, DRS contributed to a coordinated FSU effort to supply 3D-printed face shields to first responders in the Tallahassee region. This effort was coordinated primarily through the FSU College of Medicine and Innovation Hub, with contributions by the Master Craftsman Studio and other campus units, including DRS. More information about this effort can

be found at the [FSU Libraries Blog](#). In total, just shy of 150 shields were contributed to a community effort to prevent the spread of the disease and protect library employees.

Partnership with the Cetamura del Chianti Excavations & FSU Florence Study Center

In collaboration with Dr. Nancy de Grummond of the FSU Classics department and head of the long-running Cetamura del Chianti excavation in Tuscany, Italy, DRS contributed several 3D printed artefact replicas for a new museum display unveiled at the FSU Florence Study Center in the summer of 2021. This year marks the 48th anniversary of the FSU-helmed excavation, and the first in a new study center in Florence. To mark the occasion and share recent finds from the excavation of the Etruscan and Roman site at Cetamura, replicas of several archaeological finds were produced to give FSU Florence students and visitors insight into the various types of finds this site has produced.

Chief among these objects are replicas of a late-Roman Republican terra cotta jar found in the summer of 2015, made for a “Treasure of Chianti” co-exhibition housed at the FSU Florence Study Center museum and displayed at the Santa Maria della Scala museum in Siena, Italy. This jar was discovered to contain almost 200 silver coins from the late Roman Republic. More information about the Florence exhibit can be found at: <https://artsandsciences.fsu.edu/article/ancient-coins-discovered-fsu-team-view-now-italian-exhibition>, and the [Siena coinage exhibit can be viewed here](#). Unlike the extremely fragile terra

cotta, the jar replicas are able to be handled and observed by museum attendees and provide a more interactive experience for museum guests.

The coin-filled jar is not the only DRS-produced object on display at the FSU Florence Study Center, however. In additional collaboration with the Cetamura team, DRS also worked to provide models of

architectural features of the Chianti site previously exhibited at the FSU Classics Week exhibit March 2-6, 2020. These models were displays of potential configurations of the city walls of the Cetamura site throughout the medieval period. These models trace not only the development of the site through time, but also represent development in the 3D modeling process by the Classics student researcher as they gained

skills in consultation with the Digital Scholarship Librarian. This exhibit is paired with a larger topology of the overall Cetamura site produced in collaboration with the Classics Department Archaeology Club and the FSU Innovation Hub that represents extant architectural features of the Cetamura hilltop.

The Cetamura exhibit at FSU Florence also contains DRS-printed replicas of preserved ancient grape seeds discovered in an Etruscan well at the Cetamura site. These seeds—printed in both life-sized and extra-large scale—are interesting because they show the development of agricultural domestication throughout the Etruscan and Roman periods, with the models showing clearly that the domesticated grapes come to exhibit a longer, “frillier” stem (left) compared to the wild grape seeds (right). In a region of Tuscany known for its wine in the present and in ancient times, the history of the Cetamura grapes are of continued interest to historians, agricultural scientists, and wine connoisseurs alike!

DRS also contributed 3D printed architectural and sculptural model replicas of famous Florentine landmarks for use in a beginner-level Art History course at the FSU Florence study center. Due to lasting effects of the global COVID-19 pandemic, many museums and exhibits in Italy were closed or severely restricted at the beginning of the summer when classes in Florence resumed. Based on these limitations, it was unknown the extent that students would be able to interact in-person with the city’s famous Renaissance history. DRS collaborated with the instructor to provide several examples of buildings and sculpture that were used to supplement students’ engagement with Florentine history, even as the city began to lift pandemic restrictions and slowly re-open.

Investigating the landscape of 3D and Interactive Scholarly outputs

Over the course of 2019-2020 and 2020-2021 academic years, DRS recruited a Digital Cultural Heritage Intern whose job was to research the ways libraries contributed to interactive scholarly outputs that utilized 3D technology. As part of this work, exploration by the intern led to several pilot outputs. The first of these is a bibliography of scholarly works (focusing on archaeology for now) that utilize 3D models or some form of interactive experience to strengthen or make a particular scholarly argument. This bibliography—which will soon be published on DRS’s new CreateFSU service as pilot project site—contains a handful of digital monographs, websites, and traditional scholarly outputs with digital supplements that engage with 3D models in some way. The bibliography is also annotated to convey to future DRS partners the ways in which this

interactivity can supplement a traditional scholarly work, and how the various 3D or interactive technologies are used. A draft version of the bibliography is viewable in a [shared Zotero library](#).

The Digital Cultural Heritage Intern also assisted the Digital Scholarship Librarian to explore 3D scanning and photogrammetry workflows (before pandemic-related closures) to investigate how DRS could partner on various scanning projects. FSU Libraries Special Collections and Archives and the FSU Anthropology Department were two initial partners, and pilot project outputs include a [ceramic penguin from a 1950's Antarctic research expedition, held in Special Collections](#) and a scan of a [stone from the Petrified Forest National Park in Arizona](#).

DRS looks forward to further exploring opportunities for 3D scanning and modelling with the support of the new Graduate Assistant, all in support of the new Immersive Scholarship Strategic Initiative.

Instruction & Training

Discover DH Workshop Series

The Office of Digital Research and Scholarship hosted its “Discover DH” workshop series in the fall semester of 2020. This year, topics covered included: data management, text analysis, data analysis and visualization, network visualization, web scraping, and digital publishing. In light of the COVID-19 pandemic, all sessions were held over Zoom, and recordings were made of each session so that attendees could review recordings after. The initiative to record workshops has increased DRS’s capacity to create and provide asynchronous learning opportunities in the future. All recordings are currently stored in a Canvas course, and can be viewed at <https://canvas.fsu.edu/courses/162325>.

Asynchronous Resources & Online Instruction

Tools for Asynchronous Learning Libguide

Following the abrupt shift to fully remote learning in the spring of 2020, Sarah Stanley, Matthew Hunter, Dave Rodriguez, and Adam Beauchamp collaborated on a new research guide on tools for asynchronous learning (<https://guides.lib.fsu.edu/asynchLearningTools>). The guide provides an overview of different tools for instant messaging, annotation, reference management, and collaborative coding, along with sample assignments and information on privacy considerations and the relative difficulty of setting up and maintaining each tool.

Copyright Canvas Module for Theses and Dissertations

Members of the DRS team collaborated on a new Canvas course on Copyright for Theses and Dissertations. This course was created to supplement copyright information that is communicated to FSU students through various other sources, such as Graduate School presentations and the Libraries’ research guides. The course covers the rights of students as owners and users of copyright-protected works, copyright licenses, fair use, seeking permission,

and plagiarism and information ethics. DRS plans to work with the Graduate School and the Undergraduate Honors in the Major program to ensure that students are encouraged to engage with the course well in advance of preparing their theses and dissertations.

OER Canvas Course for Alternative Textbook Grant Recipients

Camille Thomas led the OER team in developing a Canvas course for Alternative Textbook Grant (ATG) recipients. This course covers information that was previously communicated to recipients in the form of synchronous presentations (virtual and in-person). Whereas these presentations were difficult to schedule and limited the scope of information we could convey to instructors, the new Canvas course is more comprehensive and can be completed by recipients at their own preferred time and pace. The OER team used this course to onboard recipients of the 2020-21 ATG program and received positive feedback about the new information and asynchronous format.

ORCID Libguide Refresh

Matt Hunter and Devin Soper worked with Julian Bayron, 2020 DRS GA, to significantly revise and expand the Libraries' research guide on ORCID, the Open Researcher and Contributor ID. The new guide features information on how to claim and populate your ORCID account as well as how to connect your account to key FSU systems such as Pivot and FEAS+. More information about FSU's ORCID initiative is available at <https://orcid.fsu.edu/> and the research guide is available at <https://guides.lib.fsu.edu/FSUORCID>.

Grants, Research, and Creative Activity

Publications

Grove, K., & Soper, D. (2021). Launching an Institutional ORCID Initiative at Florida State University . *Issues in Science and Technology Librarianship*, (96).
<https://doi.org/10.29173/istl2581>

Hunter, M. Soper, D. Miller, L. Dunne, L. Thomas, C. (2021) Ask the Editors: Assessing the Publishing Needs of Faculty Editors. *Journal of Librarianship and Scholarly Communication*. (Accepted)

Hunter M. Review of Chase, Darren, and Dana Haugh, eds. *Open Praxis, Open Access: Digital Scholarship in Action*. Chicago: ALA Editions, 2020. for *Technical Services Quarterly* 38 (3). <https://doi.org/10.1080/07317131.2021.1934342> (Forthcoming)

Champieux, R., Thomas, C. and Versluis, A. (2020). Using Outreach Weeks to Examine Labor, Assessment and Value in Open Advocacy. *Journal of Librarianship and Scholarly Communication*, 8(1), p.eP2371. DOI: <http://doi.org/10.7710/2162-3309.2371>

Thomas, C. Vardeman, K. Wu, J. (2021). Integrating Usability Testing in the Open Textbook Adaptation Workflow. *Information Technology and Libraries*. 40(1).
<https://doi.org/10.6017/ital.v40i1.12039>

Brown, A., Cole, E., Ho, A., Hurford, A., Kowalski, M., Laird, A., Lange, J., Syma, C., Soper, D., Polley, T., Fruin, C., & Schollosser, M. Library publishing competencies. Published by the Educopia Institute, Atlanta, GA. Available at: <https://librarypublishing.org/resources/library-publishing-competencies/>

Agate, N., Beamer, J., Bedford, E., Boczar, J., Bjork, K., Guimont, C., Harmon, I., Hunter, M., Johnson, A., Wipperman, S., Gabler, V., Schlosser, M. (2020) Library Publishing Research Agenda. Atlanta, GA: Educopia Institute. <http://dx.doi.org/10.5703/1288284317124>

Rodriguez, D., Thomas, C., Smart, R. (2020). Increasing Accessibility of Audiovisual Materials in the Institutional Repository at FSU. Published by the Panhandle Library Access Network. Available at: <https://www.plan.lib.fl.us/increasing-accessibility-of-audiovisual-materials-in-the-institutional-repository-at-fsu-by-guest-blogger-camille-thomas/>

Conference Presentations

Miller, L., Sherman, L., Hunter, M. (2021, April) "Open Access Art History: Building Library Publishing Partnerships in the Humanities" Association of College and Research Libraries 2021 Virtual Conference, Virtual.

Smart, R. (2021, March) "Institutional Repository Accessibility" ASERL SCUNC Scholcomm Unconference. Virtual.

Hunter M. (2021, January) "3D Digital Literacy: Digital Culture Heritage as Pedagogy" Florida Digital Humanities Consortium Webinar Series, Virtual (Regional)

Hunter M. (Invited panelist, 2020, June) LITA "Top Tech Trends 2020" Panel American Library Association Annual Conference 2020, Virtual (National)

Open Scholars Project. Collaborative Collisions: Technology and Society (2020)

Thomas, C. Jones, W. White, H. Collaborative Creation of the OER Metadata Rosetta stone. Open Education Conference. November 10, 2020.

Thomas, C. Gallstrop, W. Laursen, K. Brenna, M. (2020) We Need to Talk about OER Discovery. Open Education Conference. November 10, 2020.

Bryant, T. Thomas, C. Black, Indigenous, and People of Color Faculty Perceptions of Open Access. National Academy of the Sciences Roundtable on Aligning Incentives for Open Science. November 5, 2020.

Wharton, L. Thomas, C. Rawls, M. Diversity, Equity and Inclusion in Open Educational Resources. (2020) DIRECTO Fall 2020 Conference. Florida State University September 18, 2020.

Hunter, M. Soper, D. Thomas, C. Miller, L. Ask the Editors: Expanded Uses for Faculty Needs Assessments. Library Publishing Forum, May 4, 2020. Link to recording: <https://youtu.be/twYaiAMfv8w>

Boatright, B., Schoonover, B., Soper, D., Siriwardena, M., & Schmucker, S. Cultivating shared vision: Strategies for new library leaders. Presented at the 2020 Panhandle Library Access Network Academic Libraries Conference (virtual).

Stanley, S. "Beyond 'Compare': Exploring Drafts, Translations, and Variants in a University Repository Service." *Florida Digital Humanities Consortium*. December 2, 2020. <https://www.youtube.com/watch?v=ldqjueTLe5M>

Grants

\$100,000 Thomas, C. (PI) Leveraging Collaborative Partnerships to Improve Infrastructure for OER Discovery. Submitted Preliminary Proposal for IMLS Grant 2020 –Invited to Submit Full Proposal 2021.

- The goal of the project is to work in partnership with the Scholarly Publishing and Academic Resources Coalition (SPARC) support the OER community in developing a set of best practices for OER metadata and to run a pilot of OER metadata remediation to improve discovery and adoption of OER.

\$5,000. Bryant, T. Thomas, C. (Co-PI). Lumina Foundation. Attitudes towards open access publishing amongst BIPOC faculty in STEM. Grant Awarded 2020. Grant term 2020 - 2021.

- This research will explore the risks and rewards of participation in open access (OA) publishing for tenure and promotion by faculty of color, a population which is historically underrepresented in academia. Lumina Foundation, a member of the Open Funders Group, awarded funds to continue the original study with active recruitment and analysis on BIPOC faculty in STEM.

\$30,000. Stanley, S. National Endowment for the Humanities. Data Repository Infrastructure for Prosopographic Data. Grant term 2020-2022.

\$2,499. Hunter, M. Panhandle Libraries Advancement Network Innovation Project. Mobile 3D Scanner Workstation. Awarded January, 2020