

6-2020

Halmos College of Natural Sciences and Oceanography Annual Report: Fiscal Year 2017 and 2018

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Halmos College of Natural Sciences and Oceanography
 Annual Report for Content in NSUWorks
 Nova Southeastern University
 Fiscal Year 2017
 Fiscal Year 2018



Figure 1: Readership Distribution of all Halmos College of Natural Science and Oceanography Collections from July 1, 2016 – June 30, 2018, covering two fiscal years. Total downloads over 2 years’ time: 46,902.

NSUWorks is an institutional repository providing a free service from the Nova Southeastern University (NSU) Libraries to the campus at large. This report covers the Halmos College of Natural Sciences and Oceanography’s collection of scholarly output contained within NSUWorks during fiscal

Table of Contents

<i>Halmos College of Natural Science and Oceanography New Collections</i>	3
<i>Halmos College of Natural Science and Oceanography Highlights</i>	3
Fiscal Year 17	3
Faculty Scholarship	3
Student Scholarship	6
Fiscal Year 18	7
Faculty Scholarship	7
Student Scholarship	9

Halmos College of Natural Science and Oceanography New Collections

New Collections:

Fiscal Year 2017

- Dr. Charles Messing's [Octocoral Guide](#)
- Dr. Tamara Frank's [Deep Ocean Images](#)
- [Trick to the Treat of Internships Conference](#)
- [Pre-Health Day Conference](#)
- [ShutterShark 2017](#)
- [NSU HCNSO Alumni \(the "bragbook"\)](#)

Fiscal Year 2018

- Creation of unpublished Halmos Thesis Proposal and Thesis Defense Approval series to track lifecycle of thesis. These are used administratively and will never be published. *
- Omar Eldakar Ant Pilot Project (unpublished)*
- [2018 Ocean Science Jamboree Photographs](#)
- [2017 Trick to the Treat Images](#)
- [Lopez Laboratory: Genomics & Microbial Data](#)
- [Shutter Shark 2018](#)

Halmos College of Natural Science and Oceanography Highlights

Fiscal Year 17

Faculty Scholarship

During this fiscal year, the Oceanographic Campus Library recognized that some overall general maintenance needed to be performed within each of the series contained under the Halmos umbrella due to changes in uploading policies, creation of new metadata fields, incorrect citation generation or human error in uploading, and the introduction of the Selected Works package. This cleanup ensured that the historical citations found within NSUWorks are accurately represented and prepared the repository for possible self-submission by Halmos faculty. We standardized all series across the four departments as well so that every entry across Halmos looks the same no matter what college's articles, books, or presentations you are looking at.

We also focused on finding new projects other than traditional deposits (articles, book and book chapters, presentations). This included near completion of the uploading phase of the [Richard Harrison Slide Collection](#) and the creation of the [Tammy Frank Deep Ocean Images Series](#) and the Omar Eldakar NSU Ant Project (not published).

Some descriptions of new collections that do not fit the traditional mold of repository content:

Dr. Charles Messing's [Octocoral Guide](#) started as a website that was created by one of his former graduate students. The guide allows someone to correctly identify different species of South Florida octocorals by choosing different physical features and narrowing down results using images and descriptions. After the student graduated and left, the site started to degrade because there was no one to update the material. Dr. Messing reached out to the library for solutions to moving this guide somewhere that is both useful and easy to update by anyone. The images were migrated to NSUWorks and a dichotomous key was made using MindJet's Mind Manager. The images can be updated by anyone by submitting to NSUWorks and the library can maintain edits to the key.

The [NSU Alumni "BragBook"](#) started out as a scrapbook kept in-house by Dr. Emily Schmitt. She reached out to all of Halmos for volunteers to help out with an alumni event and the library volunteered to help with some technological based tasks. A powerpoint of this bragbook was suggested. The library suggested, instead, to create something a little more dynamic and lasting by adding the bragbook to the repository. The images were uploaded with the student bios and a form was created that allows prospective students to get in contact with alumni in regards to their experiences at NSU.

Halmos publications were downloaded 14,781 times during this fiscal year. Of these downloads, ten faculty made up 85% of that download count (Table 1). The majority of the identifiable downloads came from Educational Institutions and the majority of identifiable traffic came from Google and Google Scholar searches. Figure 1 shows readership distribution around the world. United States represented the most downloads followed by Western Europe and China. Table 2 shows the top ten most downloaded articles for fiscal year 17, with the majority of the articles coming from the Department of Marine and Environmental Science.

Table 1: Halmos College of Natural Sciences and Oceanography: Top Ten Faculty with the Highest Downloads for Fiscal Year 17.

Author name	Total Works	Full-Text Objects	Metadata Only Submissions	Submissions Posted	Metadata Page Hits	Downloads
Dodge, Richard E.	178	86	92	12	342	2472
Gilliam, David S.	114	49	65	6	61	1806
Messing, Charles	95	46	49	4	52	1401
Riegl, Bernhard	206	43	163	8	121	1272
Spieler, Richard E.	149	33	116	3	0	1185
O'Brien, Stephen James	690	127	563	90	94	988
Sutton, Tracey	192	48	144	32	98	946
Kerstetter, David	104	78	26	9	59	936

Walker, Brian K.	82	48	34	2	0	900
Soloviev, Alexander	107	32	75	14	41	600



Figure 1: Halmos College of Natural Sciences and Oceanography: Readership Distribution by Country for Fiscal Year 17.

Table 2: Halmos College of Natural Sciences and Oceanography: Top Ten Faculty Articles by Download for Fiscal Year 17.

Top Ten Halmos Articles by Download: Fiscal Year 2017		
Title	Halmos Faculty	Downloads
Caribbean Acropora Restoration Guide: Best Practices for Propagation and Population Enhancement	David Gilliam	396
Zoogeography of Tropical Western Atlantic Crinoidea (Echinodermata)	Charles Messing	339
Coral Populations and Growth Patterns: Responses to Sedimentation and Turbidity Associated with Dredging	Richard Dodge	259
Diet and Feeding Habits of the Southern Stingray <i>Dasyatis americana</i> in the Central Bahamas	David Gilliam	254
New Perspectives on Ecological Mechanisms Affecting Coral Recruitment on Reefs	Nicole Fogarty	240
Artificial Substrate and Coral Reef Restoration: What Do We Need to Know to Know What We Need	Richard Spieler, David Gilliam, Robin Sherman	191
Tires: Unstable Materials For Artificial Reef Construction	Robin Sherman, Richard Spieler	171
Stalked Crinoid Locomotion, and its Ecological and Evolutionary Implications	Charles Messing	165
Progress of Mesenchymal Stem Cell Therapy for Neural and Retinal Diseases	Veronica Fortino	159
Compositional and Taphonomic Variations in Modern Crinoid-Rich Sediments from the Deep-Water Margin of a Carbonate Bank	Charles Messing	146

Student Scholarship

Our students receiving Masters and Doctoral degrees are required to upload their capstone, thesis, or dissertation to NSUWorks as part of their graduation requirements. Embargoed publications do not get downloaded by anyone until the embargo has been lifted, but manuscripts with no open access permissions (usually pre-NSUWorks manuscripts) are able to be downloaded by NSU students, staff, and faculty. Capstones have been uploaded to NSUWorks as metadata only and are not available for download at this time. Theses published were downloaded 988 times during this fiscal year. The single dissertation published was downloaded 6 times during the fiscal year.

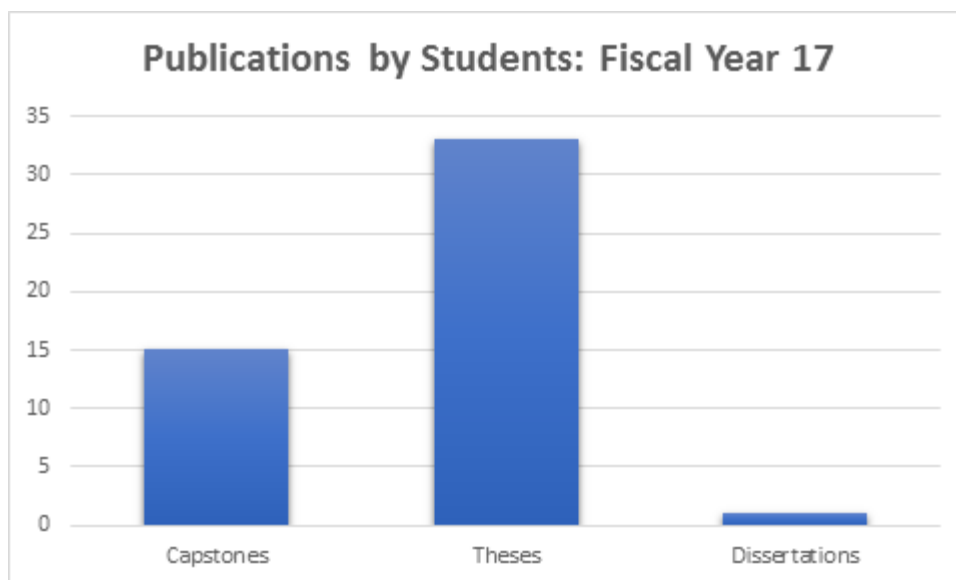


Figure 2: Halmos College of Natural Sciences and Oceanography: Fiscal Year 17 - Number of student capstones, theses, and dissertations published.

Fiscal Year 18

Faculty Scholarship

The addition of the Selected Works profile pages helped propel the popularity of NSUWorks forward. We redirected all static faculty profile pages within the [Halmos Directory](#) to each individual's Selected Works Page and have allowed faculty to update their About Sections themselves.

A [libguide](#) was created to help with training faculty and students on proper usage of the institutional repository. Videos and Quick Start PDFs were created to facilitate the training of creating accounts to posting articles.

This year marked a first where Halmos attempted to create data within the repository rather than host. In Dr. Omar Eldakar's Biodiversity class, students were asked to find ants on campus and use their smartphones to upload geolocation data to NSUWorks. This data was compiled into one large dataset that allowed us to see the location of different ant species on NSU's campus. While this study had some inherent flaws, those flaws are easy to fix and, conceivably, we could create a biodiversity heat map of life on NSU property.

Halmos publications were downloaded 16,737 times during this fiscal year. Of these downloads, ten faculty made up 87% of that download count (Table 3). The majority of the identifiable downloads came from Educational Institutions and the majority of identifiable traffic came from Google and Google Scholar searches. Figure 3 shows readership distribution around the world. United States represented the most downloads followed by United Kingdom and China. Table 4 shows the top ten most downloaded articles for fiscal year 18, with the majority of the articles coming from the Department of Marine and Environmental Science.

Table 3: Halmos College of Natural Sciences and Oceanography: Top Ten Faculty with the Highest Downloads for Fiscal Year 18.

Author name	Total Works	Full-Text Objects	Metadata Only Submissions	Submissions Posted	Metadata Page Hits	Downloads
Dodge, Richard E.	178	86	92	8	70	2492
Gilliam, David S.	114	49	65	11	44	2343
Spieler, Richard E.	149	33	116	7	2	1674
O'Brien, Stephen James	690	127	563	12	97	1666
Messing, Charles	95	46	49	5	38	1195
Sutton, Tracey	192	48	144	72	66	1194
Kerstetter, David	104	78	26	6	21	1160
Walker, Brian K.	82	48	34	20	13	1103
Riegl, Bernhard	206	43	163	13	59	1093
Soloviev, Alexander	107	32	75	9	16	693



Figure 3: Halmos College of Natural Sciences and Oceanography: Readership Distribution by Country for Fiscal Year 18.

Table 4: Halmos College of Natural Sciences and Oceanography: Top Ten Faculty Articles by Download for Fiscal Year 18.

Top Ten Halmos Articles by Download: Fiscal Year 2018		
Title	Halmos Faculty	Downloads
Caribbean Acropora Restoration Guide: Best Practices for Propagation and Population Enhancement	David Gilliam	473
Tires: Unstable Materials For Artificial Reef Construction	Robin Sherman, Richard Spieler	366
Artificial Substrate and Coral Reef Restoration: What Do We Need to Know to Know What We Need	Richard Spieler, David Gilliam, Robin Sherman	318
Shining a Light on Fish at Night: An Overview of Fish and Fisheries in the Dark of Night, and in Deep and Polar Seas	Tracey Sutton, David Kerstetter	294
Diet and Feeding Habits of the Southern Stingray <i>Dasyatis americana</i> in the Central Bahamas	David Gilliam	271
New Perspectives on Ecological Mechanisms Affecting Coral Recruitment on Reefs	Nicole Fogarty	255
Coral Populations and Growth Patterns: Responses to Sedimentation and Turbidity Associated with Dredging	Richard Dodge	228
Some Preservation Techniques for (Deep Water) Coral Samples for Subsequent Molecular Studies: A Special Supplement from Harbor Branch Oceanographic Institute	Jose Lopez	213
The Yellow Stingray, <i>Urobatis jamaicensis</i> (Chondrichthyes Urotrygonidae): A Synoptic Review	Richard Spieler, Robin Sherman	186
How Did the Deepwater Horizon Oil Spill Impact Deep-Sea Ecosystems?	Tracey Sutton	182

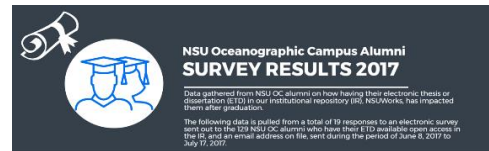
Student Scholarship

Our graduating students are now required to digitally submit their proposal manuscripts, defense manuscripts, and their final draft for publication to NSUWorks since the inception of our online submission system in 2015 (proposal and defense submissions began in 2017). Proposal and Defense manuscripts are kept unpublished on the platform while the final draft is published openly after binding of the printed form is completed. The creation of these series allows Halmos to track the full life cycle of a thesis. As of the Fall of 2015, the OC library has stopped accepting print copies of bound theses and dissertations and only one printed copy is still required by the HCNSO Program Office. As of 2017, faculty now submit digital signatures utilizing NSUWorks' journal review feature rather than "wet ink" paper signatures in order to facilitate timely publication.

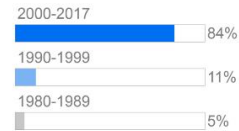
An alumni outreach campaign was conducted from 2015-2018 for all dissertations and theses done before NSUWorks was adopted yielded 39 responses (14.8%) via regular mail, email, and a "Free My Thesis" button added to all closed ETDs in NSUWorks. The majority of our openly accessible ETDs were generated, however, by the new requirement to submit to the repository starting in 2015. Of the 474 HCNSO ETDs in the repository, 259 are NSU Access Only (54.6%) and 215 are Open Access (45.4%).

Capstones are now accepted into NSUWorks for full-text download publication instead of just metadata-only publication since permission was granted by the program office in 2017 (prior to 2017, the metadata bibliographic records are available). We started receiving download data from our accepted manuscripts half way through the fiscal year with incredible success. Six capstones were published and downloaded 780 times during this fiscal year. Twenty-four theses were also published and downloaded 1399 times during this fiscal year (Figure 5). One dissertation was published but has an embargo and cannot be downloaded until 2022.

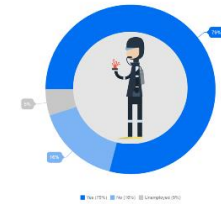
A survey was issued in 2017 to all alumni. We received 79 responses from alumni who all have their thesis or dissertation available and open in NSUWorks. Question 1 shows that 84% of the responders graduated between 2000-2017. Question 2 shows that 79% of those responders are currently working in a field directly related to their degree. Question 3 asked specifically if the responder had seen their readership report. While the results were positive, there were a lot of responses that said they have never received the report or have visited the author dashboard to see it. Almost no one is linking to their thesis or dissertation on social media or within their CV (Question 4) but 100% of the responders think that having their ETD online in the repository has had a positive effect (Question 5).



1. Year Graduated from NSU?



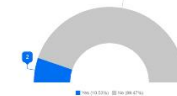
2. Are you currently working in a field related to your NSU degree?



3. Author Dashboard and Readership Report Questions



4. Do you have a link to your online thesis/dissertation in an online CV or website, such as LinkedIn?



5. On a scale of 1-10, how has having your thesis/dissertation being online affected you post graduation?



"NSUWorks has proven to be an indispensable and efficient tool for showcasing my graduate work to a large audience. Sharing my thesis and tracking readership is a breeze using the direct electronic link. My thesis has been downloaded 558 times since its publication one year ago, and I couldn't have reached that many people without NSUWorks!"

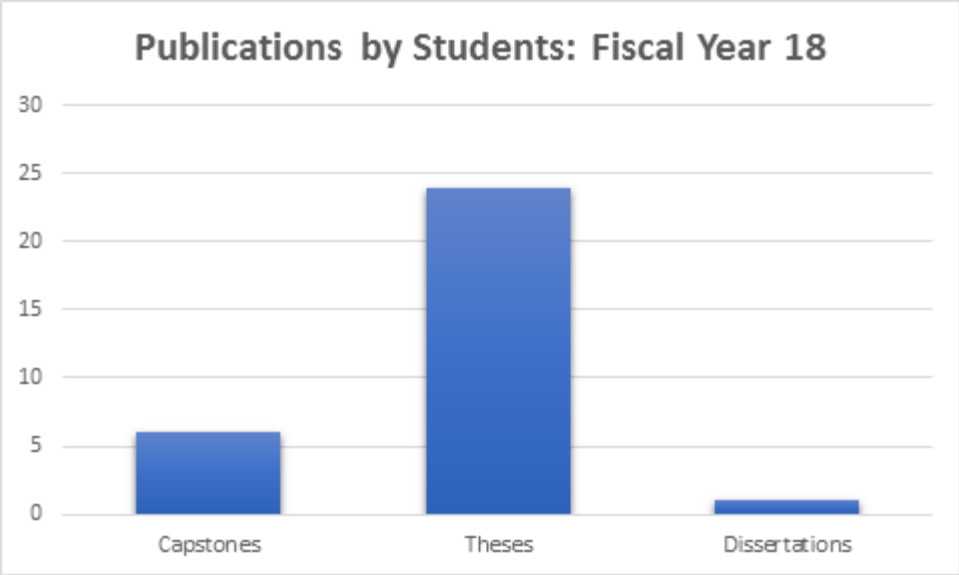


Figure 5: Halmos College of Natural Sciences and Oceanography: Fiscal Year 18 - Number of student capstones, theses, and dissertations published.