

10-2021

Halmos College of Natural Sciences and Oceanography Annual Report: Fiscal Year 2019 and 2020

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Halmos College of Natural Sciences and Oceanography

Annual Report for Content in NSUWorks

Nova Southeastern University

Fiscal Year 2019

Fiscal Year 2020

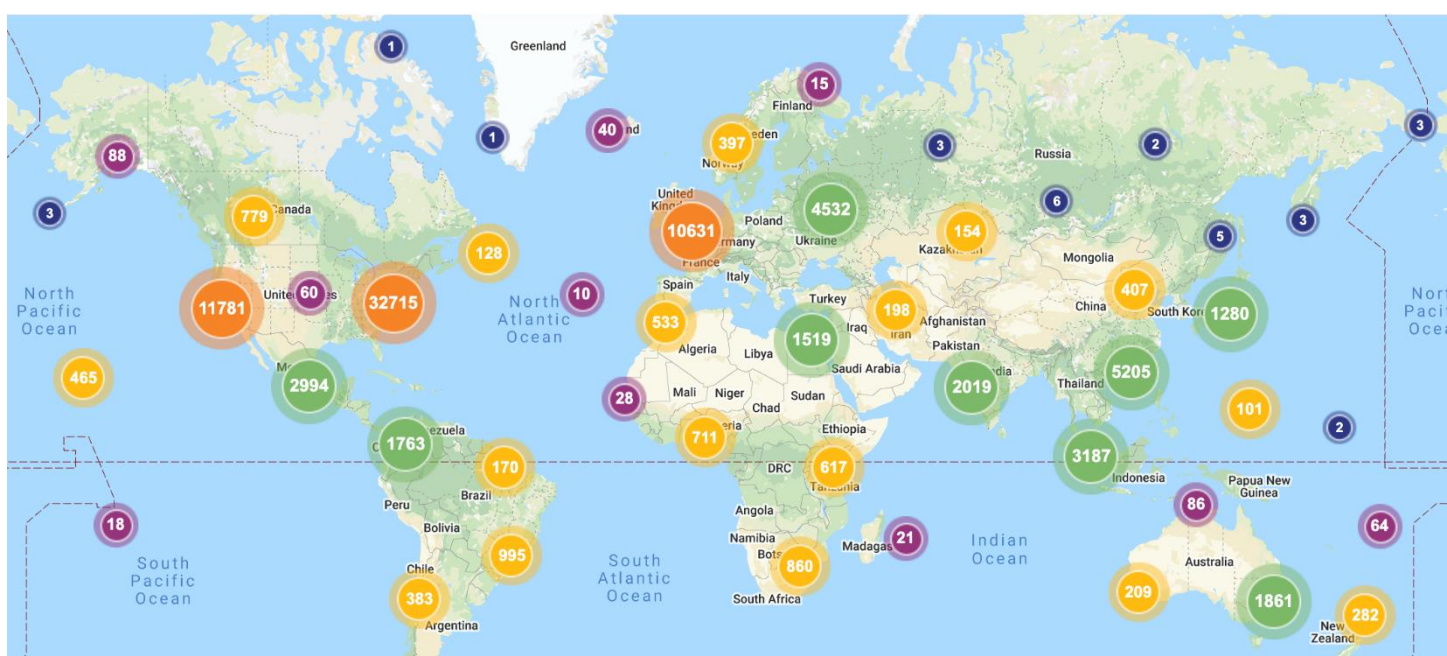


Figure 1: Readership Distribution of all Halmos College of Natural Sciences and Oceanography Collections from July 1, 2018 – June 30, 2020, covering two fiscal years. Total downloads over two years' time: 92,296.

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 years 2019 and 2020.

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Halmos College of Natural Sciences and Oceanography New Collections

New Collections:

Fiscal Year 2019

- [Dr. Lopez Laboratory: Genomics & Microbial Data](#)
- ShutterShark Student Photography Competition
 - [ShutterShark 2018](#)
 - [ShutterShark 2019](#)
- [Dr. Jaffe Experiential Learning Series](#)
 - [BIO4950: Internship in Biology](#)
 - [BIO4960: Practicum in Biology I](#)
 - [BIO4961: Practicum in Biology II](#)
 - [BIO4990: Independent Study in Biology](#)
- [Genetics and Genealogy Family History Narratives](#)

Fiscal Year 2020

- [Dr. Kerstetter Fisheries and Avian Ecology 3D Scan Series](#)
- [Corals in Crisis 2019](#)
- [Joshua Feingold Underwater Images](#)
- [Timothy Swain Caribbean Zoanthids Images](#)
- [ShutterShark 2020](#)
- [2020 Ocean Sciences Research Symposium](#)
- [Scientific Communication News](#)

Halmos College of Natural Sciences and Oceanography Highlights

Fiscal Year 2019

Faculty Scholarship

Nova Southeastern University acquired Digital Measures during this fiscal year as a means to track faculty scholarly output through research endeavors (publications, presentations, grants, etc.) and teaching endeavors (coursework, public outreach, community service). The NSUWorks team communicated with administration that NSUWorks would be a great tool to track faculty publications and presentations as long as faculty were willing to upload, at the very least, their metadata of publications and presentations to the repository. Halmos has been doing this at near 100% for three years and has agreed that this is the best method for inserting research endeavors into Digital Measures. An action plan was put into place that was implemented in FY 2020 and is described in the respective section below.

Halmos faculty publications were downloaded 15,084 times during this fiscal year. Of these downloads ten faculty accounted for 67% of that download count through their open access publications (Table 1). The majority of the identifiable traffic came from Google and Google Scholar searches. Figure 2 shows readership distribution around the world. The United States represented the most downloaded articles for the fiscal year (6036), followed by China (930) and then France (744). Table 2 shows the top ten most downloaded articles for fiscal year 19, with the majority of the articles coming from the Department of Marine and Environmental Science.

Table1: Halmos College of Natural Sciences and Oceanography: Top Ten Faculty with the Highest Downloads for Fiscal Year 19.

Author name	Total Works	Full-Text Objects	Metadata Only Submissions	Submissions Posted	Metadata Page Hits	Downloads
Dodge, Richard E.	186	86	100	2	45	1544
Gilliam, David S.	118	52	66	4	73	1434
Sutton, Tracey	217	60	157	9	72	1204
O'Brien, Stephen James	702	136	566	5	142	915
Kerstetter, David	120	81	39	15	64	913
Spieler, Richard E.	149	33	116	0	12	901
Riegl, Bernhard	216	47	169	6	62	900
Walker, Brian K.	94	56	38	11	60	808
Messing, Charles	100	46	54	5	39	753
Saleem, Mir	13	9	4	2	42	742

Table 2: Halmos College of Natural Sciences and Oceanography: Top Ten Faculty Articles by Download for Fiscal Year 19.

Title	Halmos Contributing Faculty			Downloads
How Did the Deepwater Horizon Oil Spill Impact Deep-Sea Ecosystems?	Tracey Sutton			418
New Perspectives on Ecological Mechanisms Affecting Coral Recruitment on Reefs	Nicole Fogarty			259
Caribbean Acropora Restoration Guide: Best Practices for Propagation and Population Enhancement	David Gilliam			257
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		238
Diet and Feeding Habits of the Southern Stingray <i>Dasyatis americana</i> in the Central Bahamas	David Gilliam			207
Artificial Substrate and Coral Reef Restoration: What Do We Need to Know to Know What We Need	Richard Spieler	David Gilliam	Robin Sherman	204
The Relationship of Loggerhead Nesting Patterns and Moon Phase in Broward County, Florida	Curtis Burney			193
Fishes of the Northern Mid-Atlantic Ridge Collected During the MAR-ECO Cruise in June-July 2004: An Annotated Checklist	Tracey Sutton			174
Using the West Indian Manatee (<i>Trichechus manatus</i>) as a Mechanism for Invasive Aquatic Plant Management in Florida	Edward O. Keith			173
Coral Populations and Growth Patterns: Responses to Sedimentation and Turbidity Associated with Dredging	Richard E. Dodge			171

Student Scholarship

In keeping with our goal of discovering opportunities to add non-traditional content to our community within the repository and with a new focus on student publications, we were able to add several new series to NSUWorks that achieved this:

- The ShutterShark Student photography competition is completely run and managed by students in the Halmos section of the Student Government Association (SGA). They create the competition categories and are trained on how to use NSUWorks for review and publication of the winning photos. The library creates the series based

on their recommendations and provides training to the person designated as manager in the form of F2F and video instruction.

- Dr. Mark Jaffe from the Department of Biological Sciences has 4 experiential learning courses that are either practicums, independent study, or internships. These students have, for years, completed literature reviews and research papers for their final grade and the product of that work is now hosted in NSUWorks as a publication for the undergraduate student.
- Dr. Emily Schmit-Lavin is also utilizing NSUWorks to showcase student work in her Genetics and Genealogy course. Students write papers discussing their family history through their genetic and genealogical heritage. These papers are then uploaded into the repository and geolocated to show where each student discovered their ancestors are from. The class also takes a group photo that is uploaded to an image gallery within the series.

In October 2018, the Oceanographic Campus library saw a return to the binding business after our bindery discontinued their print & bind services. We still required one print copy for the Program Office from every graduating student. In February, the Program Office stopped its requirement for a copy and the only binding services we provided were for specific faculty requests and student personal copies. In March 2019, we reached out to alternative binderies in an attempt to find a new and affordable service for student ordered print copies. Because of the continuous changes to our binding rules and the ultimate discontinuation of service by the original bindery, the open access, downloadable copy of the student capstone, thesis, or dissertation is the only copy in existence. They are born digital and, largely, remain digital.

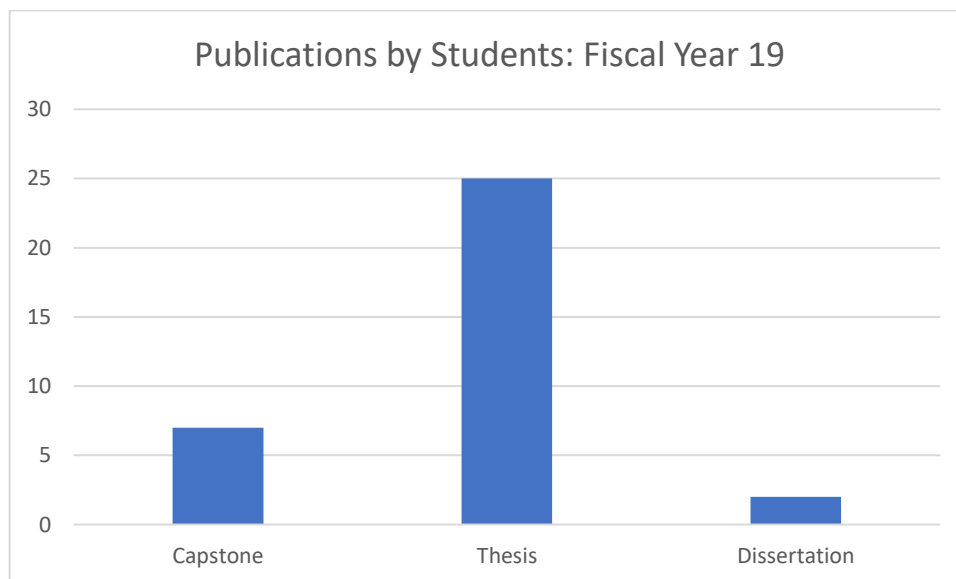


Figure 3: Halmos College of Natural Sciences and Oceanography: Fiscal Year 19 – Number of published student capstones, theses, and dissertations.

Fiscal Year 2020

The COVID-19 pandemic had an effect on new series creation within the Halmos portion of NSUWorks. While the library shut its doors physically in mid-March, we remained open virtually with the same hours we would have normally had if we were still on campus. Series that were created just before March were put on hold due to the nature of the project, but the pandemic also created a need for a creative vehicle for faculty to provide learning in new ways.

Faculty Scholarship

Halmos publications were downloaded 28,959 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. Table 4 shows the top ten most downloaded articles for fiscal year 20, 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 20.

Author name	Total Works	Full-Text Objects	Metadata Only Submissions	New Submissions Posted	Metadata Page Hits	Downloads
O'Brien, Stephen	709	155	554	8	120	2589
Dodge, Richard	191	89	102	7	53	2550
Sutton, Tracey	265	76	189	52	42	2185
Gilliam, David	127	56	71	2	96	1865
Kerstetter, David	181	86	95	62	112	1695
Riegl, Bernhard	231	49	182	8	95	1554
Walker, Brian	103	59	44	4	103	1288
Messing, Charles	106	50	56	4	19	1156
Soloviev, Alexander	130	39	91	5	65	1117
Lopez, Jose V.	109	38	71	10	66	834

Table 4: Halmos College of Natural Sciences and Oceanography: Top Ten Faculty Documents by Download for Fiscal Year 20.

Title	Halmos Contributing Faculty		Downloads in FY20
How Did the Deepwater Horizon Oil Spill Impact Deep-Sea Ecosystems?	Tracey Sutton		558
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	492
Development of an Underwater Infrared Camera to Detect Manatees	Edward O. Keith (deceased)		477
Inequalities of Generalized Matrix Functions via Tensor Products	Vehbi Paksoy	Fuzhen Zhang	330
The Relationship of Loggerhead Nesting Patterns and Moon Phase in Broward County, Florida	Curtis Burney (retired)		245
Using the West Indian Manatee (<i>Trichechus manatus</i>) as a Mechanism for Invasive Aquatic Plant Management in Florida	Edward O. Keith (deceased)		235
Coral Populations and Growth Patterns: Responses to Sedimentation and Turbidity Associated with Dredging	Richard Dodge		232
Caribbean Acropora Restoration Guide: Best Practices for Propagation and Population Enhancement	David Gilliam		225
Fishes of the Northern Mid-Atlantic Ridge Collected During the MAR-ECO Cruise in June-July 2004: An Annotated Checklist	Tracey Sutton		207
Meditation Experience Associated with Structural Neuroplasticity	Mir Saleem		189

Student Scholarship

The COVID-19 pandemic allowed for a new collection that was formerly not in the repository to be created as a means of collaboration between the students in an online format. Dr. Tyler Cyronak's Scientific Communication course does a peer-review assignment where students take journal articles and create news stories based off of them.

These news articles are peer-reviewed by other students in the class and then they are published in the repository. The creation of [Scientific Communication News](#) allowed students to utilize the journal review system in the repository and to have a publication in their name. There is a plan to turn this series into a journal at some point.

For ETDs, the pandemic pushed any remaining faculty who desired wet ink signatures and/or bound copies of the ETD into a digital age. The library continues to act as a final clearing house for all capstones, theses, and dissertations, but all signatures are done within the journal review system in NSUWorks (for information and a detailed timeline on this process, please see this [presentation](#)) and any requested bound copies are done by the student through a 3rd party online bindery.

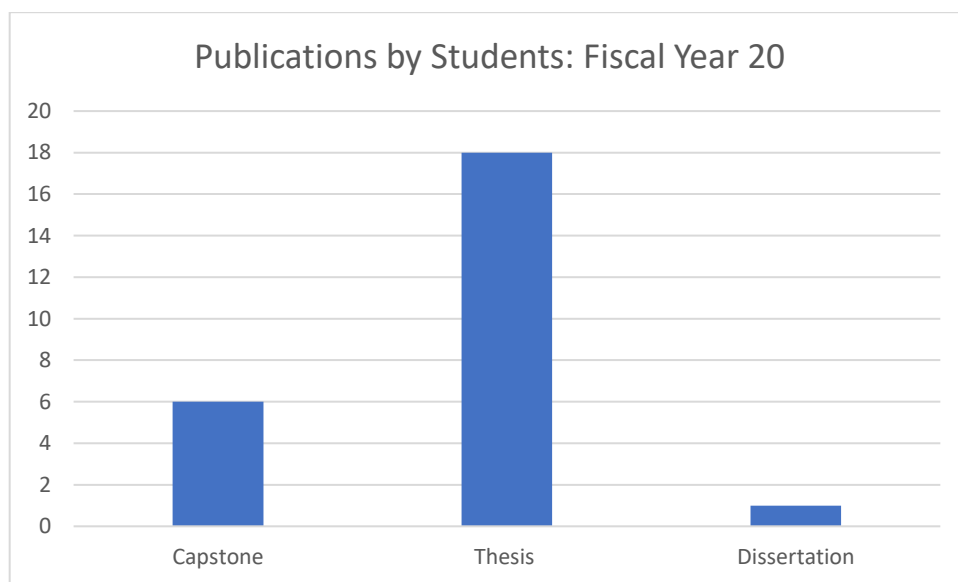


Figure 4: Halmos College of Natural Sciences and Oceanography: Fiscal Year 20 – Number of published student capstones, theses, and dissertations.