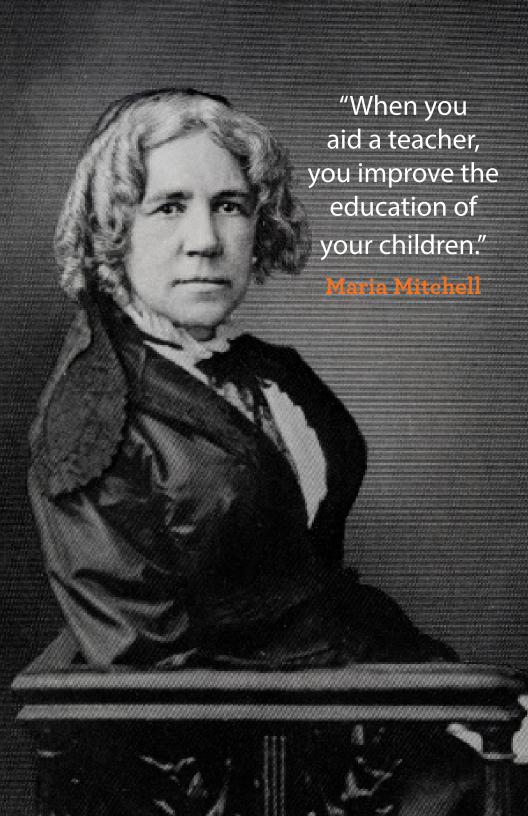
2020 Annual Report

Maria Mitchell Association

Nantucket's Science Center



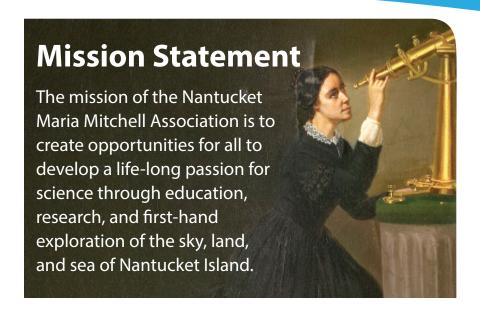


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Dear Members and Friends of the Nantucket Maria Mitchell Association:

In 2020, we realized our mission in new and meaningful ways. We learned that if you stay focused on what you do well, you can get through anything. While our summer season was not full of thirty aspiring college-aged interns, 50 collaborations, or 10,000 visitors and program participants, we took hands-on experiences we offered and focused on providing them in the best way we could. Instead of in-person public programming and events, we connected people to the land, ocean, and sky through virtual experiences. And then, when we were able, we brought small, socially-distanced experiences to family groups and individuals following all the protocols required by the Commonwealth.



Jason Bridges Executive Director

- Thanks to 187 generous supporters, our 2020 Emergency Resiliency Fund raised 23% of our annual fundraising budget;
- Led by our Astronomy Director, volunteers, and Astronomy staff, we created a way to bring the stars and planets to peoples' homes via Virtual Open Nights with new technology and added Spanish translation;
- We continued to build on collaborative and unique activities including reinvigorating
 the use of our collections by artists of the Artists Association of Nantucket and
 launching Nantucket Green Crab Weekin partnership with the Nantucket Land Council;
- Our Education Department, led by the Director of Education and island collaborators, quickly found a way to bring our annual Science Festival in March to island and off-island families, increasing our reach;
- The Natural Science Department, including the Aquarium, developed unique programming that allowed small family groups to interact with the natural world, both virtually and in-person;
- The second Maria Mitchell Women of Science Symposium moved to an online platform with over 300 registrants;
- The Fifth Grade Trees in the Community program continued for its 10th year through the generosity of the Nantucket Garden Club, allowing us to buy trees for each island fifth grader to plant after learning (virtually and socially distanced in 2020) about the importance of trees;
- With support from several foundations including the Weezie Foundation, the Nantucket Golf Club Foundation, and the Community Foundation for Nantucket's Nantucket Fund, we were able to support our new and much-needed expanded educational programming for island children during the Pandemic.

As an organization, we strive to raise up the unheard and unsupported voices in science much like Maria Mitchell did in her support of education for women and all people. We

have found ways to support and amplify the position of those who are marginalized via unique initiatives, including the Maria Mitchell Women of Science Symposium which we founded in 2018 in order to support not just women and girls in STEM, but people of color and other marginalized groups. With our namesake as our inspiration, we will continue to work towards ensuring all voices are heard and that we create opportunities for all to develop a life-long passion for science.

We are listeners. We heard island schools and helped to fill their gaps in science education. We heard our partners and found unique ways to continue those collaborations within the protocols to keep everyone safe. We heard our members and friends and provided opportunities when the protocols allowed for new, re-designed and in-person activities for families, adults, and children. We listened, we supported our constituents, and we learned. We learned and supported in the spirit of our namesake, Maria Mitchell.

2020 made us stronger. It showed us where and how we could improve our outreach even beyond our shores and provided us with unique, new ways of doing that. While we were all confronted with this Pandemic, it made all of us, not just the MMA, find new and innovative ways of learning, teaching, and working.

Thank you for weathering this year with us and for continuing to support us throughout. We will continue to engage people through curiosity into the future.

Yours in science,

Jason Bridges

Interim Executive Director



Maria Mitchell Association 2020



500+ 300+ 250+ Virtual Science Speaker Series participants

Registrants for our virtual Maria Mitchell Women of Science Symposium

Participants in our virtual Nantucket Science Festival

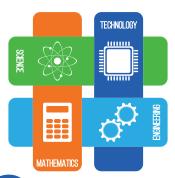
10 Interns experienced our first-ever virtual internship

(6 NSF-REU, 2 Aquarium, 1 Education, and 1 Mitchell House)





Blog posts written about Maria Mitchell, Nantucket history, and the MMA



Months
of STEM curriculum taught to
all NES Kindergarten students

Maria Mitchell Association 2020





18 Scientists

from around the country presented for our weekly Science Speaker Series





MMA Astronomy intern won the prestigious Chambliss Award









Regina Jorgenson, Ph.D. Director of Astronomy

As was true for most of the world in 2020, Astronomy Department activities were significantly impacted by the COVID-19 Pandemic. While we were not

able to host in-person programming, we were fortunate enough to be able to adapt many programs to run via electronic media. Research programs, including the flagship National Science Foundation Research Experiences for Undergraduates (NSF-REU) summer internship, continued successfully in a virtual format. As a silver lining, the virtual Maria Mitchell Observatory (MMO) public programs attracted a national and international audience, raising awareness of the MMA far beyond the shores of Nantucket.

MMO NSF-REU Research

The NSF-REU program received 212 applications for the six available positions. After careful review and interviews of short-listed candidates, sixtalented young scholars were chosen:

- Devon Barros (Bridgewater State University)
- Kiana Burton (Temple University)
- Sarah Graber (Columbia University)
- Alex Granados (Wellesley College)
- Andrea Mejia (Hunter College CUNY)
- NataliaVillanueva(HarvardUniversity)

Although we were not able to invite the

interns to Nantucket, research projects continued in much the same way as a typical summer, with communication via Zoom, email, and other electronic formats. Summer research project topics ranged from: searching for exoplanet transits around white dwarf stars and stellar flares thatmightaffectexoplanetatmospheresto understanding black hole tidal disruption events to X-ray emission from stars and supernova remnants to using fast radio bursts to untangle the cosmic web. Each intern was paired with an individual research project and mentored by Dr. Jorgenson, Gary Walker, MMO Research Fellow Jay Chittidi, and in most cases an affiliated astronomer (AA). This summer, we were joined virtually by five AAs:

- Dr. Suvi Gezari, Space Telescope Science Institute
- Dr. JJ Hermes, Boston University
- Dr. Meredith MacGregor, University of Colorado, Boulder
- Dr. Rodolfo Montez Jr., Chandra X-Ray Center, Center for Astrophysics | Harvard & Smithsonian
- Dr. Melania Nynka, Massachusetts Institute of Technology

Notably, this summer marked the first time we welcomed back two NSF-REU alumni as AAs – both Drs. Gezari (MMO 1997) and MacGregor (MMO 2009). We began the summer with a virtual 2.5 day "Python Bootcamp" meant to provide the interns with vital computer programming skills for astronomical data analysis. In August, all six interns presented ten-minute talks on their research projects to the public via a

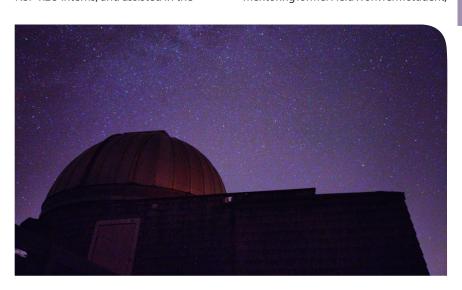
Zoom webinar with approximately 100 audience members.

In January 2021, the interns successfully presented their research at the (virtual) 237th meeting of the American Astronomical Society (AAS). Each intern presented an interactive-poster and gave a five-minute talk on their research. We are happy to report that Kiana Burton (Temple University) was awarded the prestigious Chambliss Astronomy Achievement Award for her research presentation entitled "First Millimeter Flares Detected from Epsilon Eridani with ALMA" and completed under the guidance of AA, Dr. MacGregor.

MMO General Research

Dr. Jorgenson continued her leadership of the NSF funded Fast and Fortunate for FRB Follow-up (F⁴) collaboration, working with colleagues at U.C. Santa Cruz and around the world. MMO Research Fellow, Jay Chittidi, led research on the host galaxy of a fast radio burst (FRB), published a first author paper and contributed to several other papers, helped to mentor the NSF-REU interns, and assisted in the general running of Observatory events. In September 2020, Chittidi began a graduate program at the University of Colorado, Boulder pursuing his Ph.D. in astrophysics. Alexandra Mannings (MMO 2019), who is also a part of the F⁴ collaboration as a graduate student at U.C. Santa Cruz, was awarded a prestigious National Science Foundation Graduate Research Fellowship. In September 2020, GeorgiaStolle-McAllister (Kenyon College, MMO 2019), returned to the MMO as the second MMO Research Fellow.

Other MMO research work continued virtually, including work with former NSF-REU intern Abby Mintz (Yale University, MMO 2019) who took a semester off from remote classes in order to focus on her research work begun during her summer at MMO. Working with Dr. Jorgenson and Dr. Marc Rafelski (Space Telescope Science Institute), Mintz began a first-author paper exploring the circumgalactic medium of galaxies using the autocorrelation of triply ionized carbon absorption towards a unique quasar pairs sample. Both Gary Walker and Dr. Jorgenson assisted in mentoring former Field Work Term student,



Ariel Mora (Bennington College), with his senior thesis studying the symbiotic variable star V0694 Mon.

Virtual Events, Lectures, and Open Nights at Loines Observatory

The MMO staff presented several virtual public events and lectures via Zoom webinar. In April, Chittidi was the featured LLNF Science Pub speaker with a talk entitled "Strange Extragalactic Signals: E.T. or Something Natural?" and in June Chittidi presented on "Strange Signals and a Cosmic Conundrum: Using Fast Radio Bursts to Uncover the Universe's Hidden Matter." Dr. Jorgenson and Chittidi hosted a virtual visit with the Nantucket New School second grade in May, giving a virtual observatory tour and answering space related questions. On June 12, Chittidi, along with Molly Zegans, and Dr. Jorgenson, prepared a presentation and discussion in observance of the #ShutdownSTEMmovemententitled"Why We're Shutting Down STEM: A Movement to Fight Racism in Academia."

Several virtual summer science speaker lectures were given by MMO AAs including "How To Form Habitable Planets" by Dr. MacGregor, "When the Referee Let's You Name Your Star" by Dr. Hermes, and "Satellite and Science: Building, Launching, and Using the NuSTAR X-ray Observatory" by Dr. Nynka. In September, Stolle-McAllister and Dr. Jorgenson gave a virtual, interactive presentation on the Moon in honor of "International Observe the Moon Night."

While the normal summer program of Open Nights was cancelled due to Pandemic restrictions, the MMO hosted its first ever virtual Open Night event on October 14 with nearly 100 participants via a Zoom webinar. MMO volunteer Saoirse Ryan set up her own home telescope in order to live-stream views of the planets Mars, Saturn, and Jupiter, while Stolle-McAllister and Dr. Jorgenson discussed the planets and answered questions. On November 18, the MMO hosted the first-ever Spanish language Open Night – with thanks to Stolle-McAllister and REU interns Natalia Villanueva and Andrea Mejia.

In the fall, Dr. Jorgenson hosted a few small, outdoor-only and socially-distanced private events at the Loines Observatory, consisting of a constellation tour and astronomy Q&A.

Dr. Jorgenson continued her biweekly radio interview entitled "Looking Skyward," on current events in astronomy, with John Basile of the Cape and Islands National Public Radio station WCAI, as well writing a biweekly"Looking Skyward"column for the Nantucket Inquirer and Mirror newspaper. She continued to serve as a manuscript referee for the Monthly Notices of the Royal Astronomical Society (MNRAS) and for the Astrophysical Journal. In early December, Dr. Jorgenson served on a professional review panel for the National Science Foundation. She continued to serve on the American Astronomical Society's Committee on the Status of Women in Astronomy (CSWA).

MMO Telescope Engineer Gary Walker was active in supporting the installation of the Mittelman Telescope in New Mexico, making trips in January and February, prior to COVID-19 travel restrictions, along with Arne Henden, Alan Sliski, and Aaron Sliski. He continued regular observations with the Sierra Remote Observatory in support of the senior thesis project of Bennington College student, Ariel Mora.



Hinchman House Natural Science Museum

While we were unable to open the doors of the Natural Science Museum, Aquarium, and Research Center in 2020 due to the COVID-19 Pandemic, we were still able to offer some limited activities to the public by following protocols determined by the Commonwealth. While we were not able to have visitors filling our spaces, work still continued throughout the Pandemic.

In Fall 2020, we welcomed Dan Souza back to the MMA. After spending the summer of 2019 as an Education Intern, he returned to the MMA to serve as the Animal Care and Education Assistant. Originally from Cape Cod, Dan graduated from Brandeis University with BAs in International and Global Studies and Theatre Arts. Souza is a natural educator and gained valuable experience in the outdoors working for Mass Audubon before coming to Nantucket.

Animals continue to live with us at the Museum and with the Pandemic this was no different. People may not be aware that we do have several non-natives that live with us. Since we have found them or they have been brought to us, we cannot release them and thus they live out their lives with us. One of these is Mzee (pronounced Um-zay). In early September, we had quite the scare with Mzee, our Speke's Hingeback Tortoise. Mzee suffered with an oviduct prolapse due to an embedded egg. The surgery would be







Kim Botelho Director of Education

costly, take hours and there was no quarantee she would survive. It looked like we would have to euthanize her. Luckily, we had some heroes come to her rescue. The Offshore Animal Hospital helped by providing urgent care, medicine, and x-rays. They also connected us with Dr. Charles Innis, Director of Animal Health at the New England Aguarium and one of the first veterinarians in the United States to be recognized as a reptile and amphibian specialist by the American Board of Veterinary Practitioners. He was surprised to learn Mzee has been with the MMA for over ten years after she was found roaming the streets of downtown Nantucket. He told us hingebacks were once popular in the pet trade until it was clear they didn't do well in captivity. Most did not survive, so he was eager to help save her. Kim Botelho brought her to the Aguarium's hospital where Dr. Innis and his team conducted a three-hour surgery and then provided one week of post care. All of these services for Mzee were provided free of charge. Once returned, Botelho cared for Mzee at home for a month before she was ready to return to the museum. We are happy to report

Mzee is continuing to do well.

Biological Collections, Natural Science Research, and Research Center Activities

In 2020, the COVID-19 Pandemic heavily impacted our Research Center operations and bird programs. Before the lockdown, MMA Field Ornithologist, Ginger Andrews ran three Owl Prowl programs between January 11th and March 7th. She was also able to host seven MMA Research Center Open Hours sessions between January 1st and February 14th which was in addition to three drawing sessions of collection specimens for the Artist's Association of Nantucket. To increase our digital presence during the Pandemic, Andrews provided DIY birding advice for the E-Comet and observations of interest that were posted on social media.

Despite the Pandemic, 2020 was a productive year for the MMA biological collections. In January, Collections Manager, Julia Blyth, held an informal bird study and skin preparation workshop with six volunteers. Ten new bird skins were added to the Edith F. Andrews Ornithological Collection. Three fish were also added to the permanent collections. The year's main effort, however, involved the herbarium collections.

After years of trying to locate funding to digitize our herbarium (historic and current collection of plants), we found that an already awarded but not completely used Community Preservation Act grant from the Town of Nantucket to digitize historic documents could be applied to the herbarium because of the historic nature of the specimens. In November, Blyth began the process by purchasing and setting up new imaging equipment and taking high resolution photographs of all 5,288 of the pressed vascular plants in the Nantucket Biodiversity Collection herbarium. She also labeled these with unique barcodes and corrected the database as needed. Additionally, she photographed the 2,058 nonvascular plant specimens in the Wes Tiffney Collection. These plants will be







added to the database in 2021. The ultimate goal is for the database and images to be available through the Consortium of Northeastern Herbaria's web portal.

Further, in the area of collections, several Sphodros (purseweb) spider legs were shipped to researchers for a DNA phylogeny that will help clarify the relationships between the species in the Sphodros genus and fourteen Barn Owls in the collection contributed tissue and feather samples for future analysis.

Our Barn Owl nest box program was able to continue due to its being all outdoors but with strict COVID-19 protocols in place. Nest box surveys took place on June 10 and 11 and October 7 – 9, 2020. During both surveys, thirty-three and thirty-four nest boxes were checked respectively. The population on Nantucket seems stable and may be increasing a little. Since June 2019, the MMA has banded over 100 Barn Owls, including two from Tuckernuck. With the addition of three new boxes this Fall, and more in production for 2021, we are providing



optimum housing for the birds and at the same time having an ever-increasing impact on the mouse, rat, and rabbit populations. Fewer mice also means the owls are helping to reduce Lyme disease.

Unfortunately, we had to suspend the American Burying Beetle research due to the Pandemic. We are excited to resume working with the Roger Williams Park Zoo to reintroduce the threatened beetle species in 2021.

In October 2020, Kim Botelho, the MMA's Director of Education took the first known photograph of a Gray Treefrog, Hyla versicolor, on Nantucket. She, along with other island naturalists including Danielle O'Dell from the Nantucket Conservation Foundation and Blair Perkins of Shearwater Excursions, were hearing what they expected were gray treefrogs for approximately three years. Perkins even submitted calls to the MMA, but physical proof was needed to confirm its presence. Botelho's photograph was accepted by Harvard's Museum of Comparative Zoology as the first record of this species on Nantucket.





Jack Dubinsky Aquarium Director & Research Center Coordinator

In 2020, the Maria Mitchell Association Aquarium continued its mission to educate the community about Nantucket's beautiful marine resources and conductmeaningful research on our

marine environment. Despite hardships related to the COVID-19 Pandemic, we were able to run limited public programming, co-host a virtual green crab education and citizen science event, stay involved with local marine monitoring, and add several tropical fish to our collection.

Aquarium

Due to the Pandemic, the Maria Mitchell Association decided not to open the Aquarium or any of the MMA properties this summer. While we were sad to not be able to welcome visitors back, we were able to complete some activities despite the serious situation the world has found itself in.

Internships and Volunteers

In 2020, a record eighty-one students applied for the competitive Aquarium Internship, three of whom were hired before we had to cancel the internship for the season. Additionally, twelve students were chosen for the summer High School Internship. Unfortunately, the High School Internship program was also suspended for the 2020 summer, as was our volunteer

program but we did find a unique way to have a few volunteers during the summer.

This year, we had three remote volunteers, two of whom had been hired for the 2020 Aquarium Internship and one of whom had been selected for the 2020 High School Internship. They helped to produce tremendous new content including marine animal fact sheets for our Aquarium staff, educational videos for our Nantucket Green Crab Week events, a green crab article for our website, and more!

Programs

Although we had a late start to programming in 2020 due to the Pandemic, we were able to run seventeen Beach Biology Field Trip programs for a total of 108 guests between July 28th and September 2nd. The trips were run with safetymeasures including social distancing, mandatory face coverings for staff and guests, a capacity limit of eight guests, and refraining from sharing equipment.

This year, we were unable to run our other popular programs including the Feeding Frenzy, Marine Ecology Field Trip, Night Marine Ecology Field Trip, and Plankton Palooza. Our weekly program with the Great Harbor Yacht Club's Junior Program was also cancelled due to the Pandemic.

Nantucket Green Crab Week

The MMA was proud to co-host the first Nantucket Green Crab Week! Between August 3rd and 8th, this weeklong event offered daily programs and activities aimed at raising awareness of the invasive European Green Crab. Activities included: numerous educational videos; a live presentation with greencrab researcher, James Elliot; green crab recipes; and more! As of this annual report writing, the videos and recordings have a cumulative of 2,670 views online.

We were excited to launch the Nantucket Green Crab Survey citizen science project. The survey, which records the catch per unit effort of green crabs around Nantucket, received thirty-seven submissions from locals using both bait-and-line and snorkeling techniques.

Links to 2021's Nantucket Green Crab Week events can be found on the MMA website. We arelookingforwardtohostingmoreNantucket Green Crab Weeks in the coming years.

Live Marine Animal Collection

While the Aquarium is a unique catch-andrelease aquarium, we retain a few special specimensyear-roundtodisplay during the following season. This year, we were excited to continue caring for Clementine, our over twenty-year-old, seven-pound, one-inthirty million orange lobster that has been with the Aquarium for over five years.

Every summer, the Maria Mitchell Association catchesseveral "tropical strays," juvenile warm-water fish that get inadvertently transported to New England from the tropics in the Gulf Stream ocean current. This year, we collected several uncommon specimens, including a fringed filefish, three spot fin butterflyfishes, and three four-eye butterflyfishes. The Cape Cod Museum of Natural History graciously offered to house the 2020 tropical fish additions for the off-season. We continue to care for a

four-eye butterflyfish and two orange clownfish in a tropical aquarium. In September, we were thrilled to hire StephanieRyder, aveteran MMA naturalist, as our Off-Season Aquarist to take care of these live marine animals over the winter.

Monitoring and Research

While we were unable to conduct our NantucketEelgrassBiodiversitysurveys,which ordinarily occur from June – August during the Marine Ecology FieldTrip programs – and unable to participate in the Atlantic horseshoecrabspawningsurveys,whichtake place during the breeding season from April–June, we did have some research that continued despite the Pandemic.

We were able to continue our participation in the Marine Invader Monitoring and Information Collaborative (MIMIC) surveys for a second year. This project is managed by the Massachusetts Office of Coastal Zone Management and is designed to track the spread of marine invasive species, including tunicates, crabs, algae, and more around the New England coast. Along with the UMASS Field Station, the MMA surveys Nantucket Harbor for invasive species for MIMIC.





Hinchman House Natural Science Museum

In 2020, the Education Department was asked to help oversee the running of the Natural Science Museum. Due to COVID-19 keeping the doors of our museums closed for the season, the department focused its work on helping to update the animal exhibits with improved displays and tanks. The Natural Science and Education Department will continue to collaborate more on utilizing the space year-round for educational programming with the schools and on family and adult programming that utilizes the MMA's unique and important natural science collections.

The Giving Garden

Thanks to the generosity of the Whole Kids Foundation, we made much needed improvements to the Giving Garden. We redesigned the garden plot to provide more growing area, reinforced the base of the border fence, installed vertical growing structures for tomatoes and cucumbers, lined the garden with landscaping fabric and wood chips to reduce weeding time, and fixed the base of the garden gate. As part of this grant, we also incorporated the garden into online kindergarten programs by providing families with lessons to do at home, including "What's Inside a Seed" and "Making Seed Balls," and began building resources for summer instructors on composting, using senses to explore the garden, pollinators, flower dissections, and more. We had a very successful

growing season and were able to donate a significant amount to the Nantucket Food Pantry. As a volunteer project for the Nantucket Community Garden



Kim Botelho Director of Education

where the MMA Giving Garden resides, Kim Botelho, the MMA's Director of Education turned an overly shady old garden plot into a new classroom space for Discovery Campers to use.

School Programs

From December 2019 through June of 2020, Molly Zegans, the MMA's Education Coordinator ran a pilot program that provided monthly science enrichment classes to every kindergarten class in the Nantucket Elementary School. Once COVID-19 hit, we immediately turned these visits into online programs and also provided other lessons for





children to do at home. After demonstrating how successful the programs were, and receiving support from local teachers, we were able to secure funding from the Community Foundation for Nantucket's Nantucket Fund to begin a full year of monthly programs beginning in October 2020. Due to a new opportunity, Molly Zegans left the MMA in September, and Botelho took over and ran in-person programs when it was warm enough to be outside, switching to online programs in December.

Thanks to generous support from the Nantucket Garden Club, we were able to continue our 5th Grade "Trees in the Community" program. We provided an in-person program and gave out trees as usual for the Nantucket Lighthouse School, but the classroom portion was moved to online for the Nantucket Intermediate School (NIS) and the Nantucket New School. This online class proved very successful with new content added to take the place of interactive activities that normally would have occurred. Now, moving forward, tree root communication will be added to the in-class program too. We still conducted a planting

demonstration for the Nantucket New School, and we left trees for student pick-up at the NIS. We gave out approximately 125 trees and generated an extra \$880 to invest into future tree programs by selling the remaining trees to members of the community.

Summer Discovery Camp

Unfortunately, due to COVID-19, our Summer Discovery Programs were cancelled. However, we are so grateful for the support our camp families showed us during this challenging time. Some accepted refunds in the form of credits for 2021, and many made full or partial donations. Thanks to their kindness and generosity, we still made just over \$25,000.

Free Summer Programs

Many thanks to the Nantucket Conservation Foundation (NCF) for generously providing funds that enabled the MMA to offer free Habitat Hikes on NCF properties to island families and visitors. These programs took place at Windswept Bog and Masquetuck and focused on the flora, fauna, and habitat types found at each location.





Jascin N. Leonardo Finger Curator of Mitchell House

The year 2020 was indeed a challenge for all and a sad one when we could not open the doors of the Mitchell House to the public for the first time since 1903. Even throughout the Flu Pandemic of

1918/1919, World War One and World War Two, and other world and national events, we were not faced with such a situation. But we need to protect one another and so, the Mitchell House turned to some inward focus and also some different forms of outreach.

The big news for the Mitchell House in 2020 is that with grants from the 1772 Foundation/PreservationMassachusettsand the M. S. Worthington Foundation, we were able to conserve and re-glaze the historic sashes of the House and paint the trim, doors, and sashes. All of the work was completed by James Tyler and his crew in the fall. We were also able at the time to return the House to its darker color of the past. Further conservation included an in-depth focus on ceramics found throughout the House, as well as repairs to the roofwalk hatch and the east gable attic window – all grant funded work.

While we could not meet in person for our second Maria Mitchell Women of Science Symposium (MMWSS) this year as had been planned, we turned to hosting a shorter version online on October 2, 2020. With over 300 registrants, we were able to draw a larger audience as we focused on Inclusion, Diversity,

and Intersectionality. Our keynotewas Catalina Martinez of NOAA and our panel was made up of incredible women from all walks of STEM.

They were:

- Sabine von Sengbusch of Siemens
- Serra Hoagland of the US Forest Service
- Dorene Price of Brookhaven Laboratories
- Amy Bower of the Wood Hole Oceanographic Institution (WHOI).

Ourfantastic panel moderator was Gwyneth Packard of WHOI and we had the assistance of several students who are on our Advisory Committee to help host the event. Generous sponsors to support the needs of going online included: The American Astronomical Society, Novartis, and the Tupancy-Harris Foundation of 1986. And we were ably assisted in the background by Nantucket Community Television. It was a tremendous and inspiring event and we hope to meet in-person September 25-23, 2021.

Another happening that came out of the 2018 birthday celebration year, like the MMWSS, was the Maria Mitchell Scholarship which is awarded to a graduating senior from Nantucket High School who intends to pursue a degree and career path in a STEM field. 2020's recipient of the one-time \$500 scholarship was Skye Flegg who began attending the University of New Hampshire in the fall of 2020.

And with the wonders of the Internet making our world much smaller, we were still able to assist researchers and students across the globe who were working on

projects, books, and exhibits in which Maria Mitchell was featured. From a new book to come on the Hawthorne family to a work of fiction on the Great Fire of 1846, we received requests for research, archival materials, and historic photograph use from researchers in the United States, Canada, New Zealand, and France to name a few places. Maria Mitchell was also featured in an American Astronomical Society online article for the column"ThisMonthinAstronomicalHistory" part of the Historical Astronomy Division. The curator was asked to write an article celebrating Mitchell's accomplishments on what would have been her 202nd birthday. The curator was also asked by the Woods Hole Oceanographic Institution to research and write an article, exhibit text, and plaque text for the dedication of a room at WHOI in memory of WHOI biologist and founder of modern oceanography, Mary Sears.

The Mitchell House Curator is also the MMA's Deputy Director, and as such she was asked to spearhead the MMA's COVID-19 response from everything from sourcing and purchasing PPE supplies to developing program and working on-site protocols, to contact tracing rules and cleaning protocols and how each of the staff were going to work in office spaces on site—especially when we were allowed back into the museums, sites, and offices. The Pandemic kept us from many events this year,

including the always anticipated Birthday Open House in honor of Maria Mitchell's birthday on August 1. That is something that has been ongoing in some capacity since our founding and was a great disappointment to all of us.

And while there was no internship this year, the hoped for 2020 Mitchell House internship still carried on to some extent albeit remotely as Kari Fossum (Mount Holyoke College 2021) met weekly with the curator via Skype in order to begin to complete research towards a hoped for online exhibit focusing on an aspect of Nantucket and Maria Mitchell's life. More to come in 2021 on this initiative as Ms. Fossum plans to be the 2021 intern. Additionally, we were able to welcome back a volunteer who has been cataloging a Nantucket collection of books donated to us several years ago by Reva and Mort Schlesinger. Joanne Polster has been an enormous help to getting this done and we were glad to be able to have her back following the COVID-19 protocols in late 2020.

While we had limited time on-site for a good portion of 2020 due to COVID-19 restrictions from the Commonwealth of Massachusetts, we still managed to make some strides in the Mitchell House, host our second – but online, shortened version – of the MMWSS, and attend to some activities that we are not able to do in the busy summer months.



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Jascin N. Leonardo Finger MMA Deputy Director

With the COVID-19
Pandemic, the MMA
was forced to limit
what was completed
at the facilities for cost
savings. The
Pandemic also added
a new level to how
we worked on the
sites with contractors,

landscapers, and others. But despite all of this, we were able to make some much needed repairs with grant support and to keep our buildings in good order throughout 2020. We were also aided by several volunteers when allowed to do so underCOVID-19guidelines.Ofgreatestnote, several efforts for our sites in 2020 are detailed in this report.

Happily, we were able to apply for and receive funding from several foundations and granting agencies that allowed and will allow the MMA to attend to outstanding projects and to beginto realize the conservation of the Maria Mitchell Vestal Street Observatory. With funding from the Community Preservation Act and the M. S. Worthington Foundation, we hope to begin the conservation of this historic Observatory in 2021 as we continue to focus on the maintenance and conservation of our important and in many cases, historic, facilities.

In the Astronomer's Cottage, thus named since many of the MMA's astronomers have lived in the cottage since it was donated to the MMA in the early 1920s but is used to house different senior staff, we made a

continued effort to bring this historic property up to its potential by updating the heating system and making electrical updates. This builds upon a 2016 grant that we received from the Massachusetts Cultural Council which allowed us to complete work to the roof, sidewall shingling, and painting several years ago.

As already noted in this annual report, the Mitchell House received two grants in 2020 – one from Preservation Massachusetts, in collaboration with the 1772 Foundation, and one from the M. S. Worthington Foundation which allowed the MMA to re-glaze the historic sashes of the 1790 House and paint the trim, doors, and sashes. The House also saw the replacement of an east gable window that was not original and now matches the rest of the historic sashes and repairs to its roofwalk hatch – all grant funded.

In Hinchman House, we made a few small updates in the Natural Science Museum which included the installation of a set tub in the old water closet in the Animal Room enabling the cleaning of tanks to be made much easier. Some electrical work was completed in the basement for Aquarium tank support, and the classroom space saw some plumbing updates. With some grant money for painting, we were also able to attend to the exterior of the front entry.

At our properties on Washington Street, we were forced to put in a new water line as the pipe was found to be leaking and broken in several places. We completed this work in February – just before the Pandemic hit the United States and the island.

With a grant from the Nantucket Garden Club, the Deputy Director was able to place a focus on restoring the native wildflower and plant garden in front of the Vestal Street Observatory by introducing native species which help to support the birds, insects, and other life found on Vestal Street and the island, Our Landscape uses no fertilizers or weed killers of any kind, allowing the fauna to eat and inhabit the area safely. It also means that our Hinchman House animals have safe clover and other edibles to eat and walk through when they are out for exercise. The grant also allowed for some additional seating and we now have a bench at the Vestal Street Observatory and two Adirondack chairs at the MMA Research Center for our visitors.

All of our sites continued to have their requisite inspections – something that must continue for the safety of all and the buildings despite a Pandemic. Of course, issues arise with all buildings and we need

to address any necessary maintenance or emergencies that occur and some did in 2020 with plumbing, carpentry, electrical, and the like. Again, in other areas where we could forego activities for 2020 in order to save money, we did. But we have worked very hard over the last few years to bring our buildings up to a high level of preservation, as we have designated in our strategic plan. Thus, we are constantly seeking and applying for grants and gifts that support these efforts.

Finally, we had several volunteers including Nancy Giragosian who attended to the Astronomer's Cottage garden and lawn and window boxes and Geoff Smith who helped us to cut back some overgrown areas and roses at the MMA this fall. It is volunteers who help us make a difference, too, and the Deputy Director would love to have people join a new garden group that will put volunteers to work twice a month in-season to attend to the gardens at the MMA with the Deputy Director. It is a fun, team building experience and we hope you will contact us about this new volunteer effort.









Logan S. Gomes Director of Advancement

The MMA's
Advancementefforts
were very nimble this
year. Because of
COVID-19,
fundraising events
were quickly
reimagined, and our
development plan

was thoughtfully modified. In anticipation of an atypical summer, we launched an Emergency Resiliency Fund (ER Fund) in May, aimed to help offset lost special event and membership revenue. With our facilities and programs greatly impacted by the Pandemic, we knew the latter would be down. The ER Fund was a success, and we were very grateful for the 187 donors who made timely and generous contributions, enabling us to raise over \$220,000 during a time in which our camps and programs were halted.

Shortly thereafter, we launched two new "Wish Upon a Star" auctions for one-month, VIP parking spaces at 29 and 33 Washington Street respectively. These creative and fun fundraisers, which featured results live streamed via social media, helped us generate excitement and attract new donors. Many have already asked if we will offer this auction again in 2021 – and we will!

In an effort to stay engaged with past MMA Gala sponsors, we hosted a phone-a-thon, contacting previous sponsors and asking for their continued support even though we were unable to host a Gala in 2020. The phone-a-thon proved successful and helped us stay connected to supporters.

Because we could not bring together our Honorary Board during the summer, we hosted a fall Virtual Meet and Greet with MMA Interim Executive Director Jason Bridges. The gathering provided an opportunity for our Honorary Board Members to hear our COVID-19 scenario planning and offer feedback and advice.

Our 2020 Year-End Campaign brought in a record number of supporters, with 102 more donors participating compared to 2019, yet year-end revenue was slightly down compared to the prior year. We anticipated a potential decline in this specificfund, because many supporters had already participated in our Emergency Resiliency Fund. Overall, we saw an increase in contributions compared to 2019. This timely support truly helped us weather the Pandemic's impact on our organization.



Kelly Bernatzky, Development Associate

We were very grateful for the continued grant support from numerous foundations, as noted on page 29, and we were quick to research and apply for new grant opportunities in light of the Pandemic. As a result, our grant revenue increased compared to 2019. A special thank you to the Community Foundation for Nantucket for their COVID-19 relief funding initiatives.

Two major development and communications related advancements included the upgrade of our donor database from Abila to Raiser's Edge by Blackbaud and the redesign of our website. The new database allowed our Advancement Office to be more efficient in data management and reporting. The redesign of our website was a major undertaking and enabled us to modernize

our site, making it more innovative and user-friendly. The website redesign, led by MMA Development Associate, Kelly Bernatzky, and conducted by Moor Studio, was generously funded by a grant received from the Community Foundation for Nantucket's ReMain Nantucket Fund. The eagerly anticipated new site is expected to launch in February 2021.

The Development Office welcomed former MMA intern, Kelly Bernatzky (2018 Mitchell House Intern), back to the organization as the new Development Associate. A graduate of Vassar College, Bernatzky first became familiar with the MMA when she wrote a report about Maria Mitchell in the third grade. Bernatzky will be managing our communications and grants and assisting with special events.





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* The 2020 event was a collaboration between the MMA and Mass Audubon. A heartfelt thank you to our individual donors.

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Donations

Mitchell House, Archives and Special Collections Donations

France Karttunen, Ph.D.: handwritten essay by Maurice E. Gibbs (her grandfather) on "Birds of Nantucket" for his Coffin School graduation, 1886.

Barbara Duffy: Scrapbook of photographs, advertisements, correspondence, and script for her one-woman play on Maria Mitchell, first performed on Nantucket at the Coffin School with the MMA by France Sternhagen in 2003.

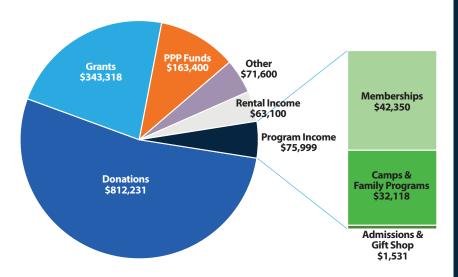
Elisabeth Jacobsen: Nooks and Corners of the New England Coast by S. A. Drake, 1875.

Margaret Falk: Summer Wildflowers of the Northeast (2020) and Spring Wildflowers of the Northeast (2012) by Carol Gracie.

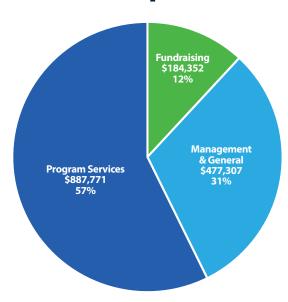
Joanne Polster: Geology Along the Going-to-the-Sun Road Glacier National Park, Montana, 1983 and White Wolf: Living With An Arctic Legend, J. Brandenberg, 1988.



2020 Revenue Sources



2020 Expenses





Statement of Activities

Year ended December 31, 2020

| | 2020 |
|-------------------------|-----------|
| REVENUE & SUPPORT | |
| Contributions* | 812,231 |
| Grants | 343,318 |
| PPP Loan (forgiven) | 163,400 |
| Programs | 32,118 |
| Membership | 42,350 |
| Admissions & Gift Shop | 1,531 |
| Other Income | 134,700 |
| Total Revenue & Support | 1,529,648 |

| EXPENSES | |
|--|-----------|
| Program Services | 887,771 |
| Management & General | 477,307 |
| Fundraising | 184,352 |
| Total Expenses | 1,549,430 |
| Change of net assets from operating activities | (19,782) |

^{*} includes multiyear pledge income recognized in 2020 and donations made in lieu of special events.



Statement of Financial Position

Year ended December 31, 2020

| | 2020 |
|--------------------------------|------------|
| ASSETS | |
| Cash & Cash Equivalents | 275,058 |
| Accounts Receivable | 27,094 |
| Pledges Receivable | 277,306 |
| Prepaid Expenses | 28,443 |
| Investments | 2,681,579 |
| Note Receivable | 245,878 |
| Remainder Interest in Property | 1,297,626 |
| Property & Equipment, Net | 6,284,279 |
| Total Assets | 11,117,263 |

| LIABILITIES & NET ASSETS | |
|--|-----------|
| Accounts Payable & Accrued Liabilities | 267,285 |
| Notes Payable | 110,000 |
| Long Term Debt | 1,052,736 |
| Total Liabilities | 1,430,021 |

| NET ASSETS | |
|----------------------------|------------|
| Without Donor Restrictions | 5,850,127 |
| With Donor Restrictions | 3,837,115 |
| Total Net Assets | 11,117,263 |

S

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Natural Science Affiliated Staff Robert S. Kennedy, Ph.D. Senior Research Fellow, Barn Owls and Ospreys Valerie A. Hall, Ph.D. Research Associate, Scallops Andrew McKenna-Foster Research Associate, Spiders

Natural Science Volunteers Mitch Blake, Neil Foley, Ella Potenza, Jen and Tucker Reinhard, Tim and Kim Griswold

Aquarium Director Jack Dubinsky

Marine Animal Care Stephanie Ryder

Aquarium Volunteers Kara Chuang, Sarah Hurlock, Elizabeth Pellegrini

Astronomy

Director of Astronomy Regina Jorgenson, Ph.D.

Telescope Engineer Gary Walker MMO Research Fellow Jay Chittidi (through August, 2020) Georgia Stolle-McAllister (starting September, 2020)

NSF-REU Astronomy Interns Devon Barros, Bridgewater State University, Class of 2022

Kiana Burton, Temple University, Class of 2021 SarahGraber, Columbia University, Class of 2021 Alex Granados, Wellesley College, Class of 2021 Andrea Mejia, Hunter College - City University of New York, Class of 2021 Natalia Villanueva, Harvard University, Class of 2023

MMO Volunteer Saoirse Ryan

Affiliated Astronomers Suvi Gezari, Ph.D., Space Telescope Science Institute JJ Hermes, Ph.D., **Boston University** Meredith MacGregor, Ph.D., University of Colorado, Boulder Rodolfo Montez, Jr., Ph.D., Chandra X-Ray Center, Center for Astrophysics | Harvard & Smithsonian Melania Nynka, Ph.D., Massachusetts Institute of Technology

Education

Director of Education Kim Rotelho

Education Coordinator Molly Zegans

Giving Garden Assistant Jordan McHugh

Animal Care/Education Assistant Elizabeth Early Dan Souza Dan Venuto, Jr.

Animal Care Assistant Zacil Nash

Remote Education Intern Dana Murray

Volunteers Eli Holland Annie Mendelsohn Ben Miles Christopher Riba-Payne Cristobal Paz

Mitchell House, Archives & Special Collections

Curator of the Mitchell House, **Archives & Special Collections** Jascin N. Leonardo Finger

Remote Internship Kari Fossum, Mt. Holyoke College, Class of 2021

Volunteer Joanne Polster

Maria Mitchell Women of Science Symposium

Committee Gwyneth Packard, Co-Chair Joe Santucci, Co-Chair Sarah T. Bois, Ph.D. Joel Bowman, Ph.D. Curt Burwell Mareshia Donald, Ph.D. Patricia Michaelson, Ph.D. Kathy Rhode, Ph.D. Jane Tausia

JascinLeonardo Finger, Ex-Officio, originator Regina Jorgenson, Ph.D., MMA Staff

Advisory Board Catherine Bischoff Kim Botelho, MMA Staff Sheila David Denice Kronau Jackie MacDonald Gibson, Ph.D. Heather Goldstone, Ph.D. Stella Kafka, Ph.D. Celia Mulcahey Jocelyn Navarro **Bridgette Yang**

The MMA conducts many ongoing research programs both on its own and with various collaborators

Herbarium

 Nantucket Flora Led by Kelly Omand, Nantucket Conservation Foundation

Marine Science

- Atlantic Horseshoe Crab Spawning Surveys (No data collected in 2020 due to COVID-19 Pandemic) Led by Derek Perry, Invertebrate Fisheries Project, Massachusetts Division of Marine Fisheries
- Eelgrass Biodiversity Surveys (No data collected in 2020 due to COVID-19 Pandemic)
 Led by Jack Dubinsky, MMA Aquarium Director, Research Center Coordinator
- Marine Invader Monitoring and Information Collaborative (MIMIC) Led by Adrienne Pappal, Massachusetts Coastal Habitatand Water Quality Program Manager
- Nantucket Beach Green Crab Survey (Citizen Science Project)
 Led by Jack Dubinsky, MMA Aquarium Director, Research Center Coordinator
- Scallops, Shellfish Led by Valerie Hall, Ph.D., MMA Scallop Researcher

Natural Science

- American Burying Beetle
 Reintroduction Project (No data
 collected in 2020 due to COVID-19
 Pandemic)
 Led by Lou Perrotti, Director of
 Conservation Programs, Roger Williams
 Park Zoo
- Nantucket Barn Owl Monitoring Program Led by Bob Kennedy, Ph.D., MMA Senior Research Fellow
- Nantucket Bird-At-Home-A-Thon Hosted by the MMA and MassAudubon
- Purseweb Spider Analysis
 Led by Michael Skvarla, Penn State and
 Ray Fisher, University of Arkansas

Astronomy

Fast and Fortunate for FRB Follow-up (F4) Collaboration:

- FastRadioBursts(FRBs)asProbesofthe Comic Web
 - Collaboration leaders are:
 - » Dr. Regina Jorgenson (MMO)
 - » Dr. J. Xavier Prochaska (UC Santa Cruz)
 - » Dr. Nicolas Tejos (Pontificia Universidad Católica de Valparaíso)
 - » Dr. Wen-Fai Fong (Northwestern University)
 - Collaboration contains many other internationally based members.

Galaxy Formation and Evolution:

- Probing the High-Redshift CircumgalacticMedium(CGM)through Quasar Absorption Line Tomography
 - Abby Mintz (Yale University)
 - o Dr. Regina Jorgenson (MMO)
 - o Dr. Mark Rafelski (Space Telescope Science Institute)

NSF-REU Research:

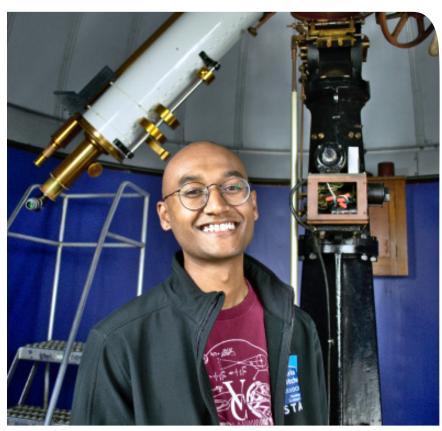
- Sharpening NuSTAR X-ray Images of Pulsar Wind Nebula G21.5-0.9
 - o DevonBarros(BridgewaterState University)
 - o Dr. Melania Nynka (MIT)
- First Millimeter Flares Detected From Epsilon Eridani With ALMA
 - o KianaBurton(TempleUniversity)
 - Dr. Meredith MacGregor (University of Colorado, Boulder)
- SearchforX-raysfromRVTauVariableStars
 - o Sarah Graber (Columbia University)
 - o Dr. Rodolfo Montez, Jr. (Center for Astrophysics | Harvard & Smithsonian)

- UsingTESSDatatoSearchforTransiting Exoplanets Around White Dwarfs
 - o Alex Granados (Wellesley University)
 - o Dr. JJ Hermes (Boston University)
- UntanglingtheCosmicWeb:VLT/MUSE ObservationsofFRBHostGalaxy180924
 - o Andrea Mejia (CUNY- Hunter College)
 - o Dr. Regina Jorgenson (MMO)
 - o Jay Chittidi (University of Colorado, Boulder)
 - o Georgia Stolle-McAllister (MMO)

- Systematic Classification of Tidal DisruptionEventLightCurvesfromthe Zwicky Transient Facility
 - o Natalia Villanueva (Harvard University)
 - o Dr. Suvi Gezari (Space Telescope Science Institute)

Stellar Research:

- The Enigmatic Symbiotic System MWC560 (V694 Mon)
 - o Ariel Mora (Bennington College)
 - o Dr. Hugh Crowl (Bennington College)
 - o Gary Walker (MMO)
 - o Dr. Regina Jorgenson (MMO)



MMO Research Fellow Jay Chittidi (September, 2019 - August, 2020)

The Nantucket Maria Mitchell Association is proud to establish collaborations with other non-profit organizations, businesses, and universities in order to offer the best in programs and to conduct research vital to understanding and preserving Nantucket's natural areas and history, and to pursue cutting edge research in astronomy using the MMA's telescopes and leading telescopes around the world and in space.

ACKlimate American Astronomical Society American Association of Variable Star Observers Artists Association of Nantucket Bennington College **Boston University Bridgewater State University** Cape Cod 5 Foundation Cape Cod Museum of Natural History Chandra X-Ray Center, Center for Astrophysics | Harvard & Smithsonian City University of New York Columbia University Committee on the Status of Women in Astronomy Connecticut College Consortium of Northeastern Herbaria CRAFT (The Commensal Real-time ASKAP Fast Transients Survey) Egan Maritime Institute **European Southern Observatory** Fast and Fortunate for FRB Follow-up (F4) Gran Telescopio Canarias Great Harbor Yacht Club Harvard University Harvard University Museum of Comparative Zoology **Hunter College CUNY** International Astronomical Union Jason Bridges, Nantucket Bike Tours Johns Hopkins University Josh Eldridge, "Critter Cruises" Kavli Institute for the Physics and Mathematics of the Universe (IPMU) Keck Observatory, University of Hawai'i Linda Loring Nature Foundation Mark Genthner, Just Do It, Too Marine Biological Laboratory Massachusetts Audubon Society

Massachusetts Division of Marine Fisheries Massachusetts Institute of Technology Massachusetts Space Grant Consortium MeeRTRAP (more TRAnsients and Pulsars) Monomoy Charters Montessori Children's House of Nantucket Nantucket Atheneum Nantucket Biodiversity Initiative Nantucket Boys and Girls Club Nantucket Chamber of Commerce Nantucket Community Sailing Nantucket Community School Nantucket Community Television Nantucket Conservation Foundation Nantucket Girl Scouts Nantucket Historical Association Nantucket Islands Land Bank Nantucket Land Council Nantucket Lighthouse School Nantucket Preservation Trust Nantucket Public Schools Nantucket Shellfish Association NantucketShipwreck&LifesavingMuseum National Collaborative of Women's **History Sites** NationalInformalSTEMEducationNetwork National Museum of Natural History National Research Council of Canada Northwestern University Pontificia Universidad Católica de Valparaíso Preservation Institute Nantucket **Prospect Hill Cemetery Association** realfast (real-time fast transients at the VLA) Roger Williams Park Zoo Rotary Club of Nantucket 'Sconset Trust **Shearwater Excursions** Space Telescope Science Institute Specify Collections Consortium **Temple University**

Town of Nantucket
Town of Nantucket Natural Resources
Department
The Trustees of Reservations
Tuckernuck Land Trust
Tupancy-Harris Foundation of 1986
UMass Boston Nantucket Field Station
University of California, Santa Cruz
University of Colorado, Boulder

University of Copenhagen, Denmark University of Granada, Spain University of Hawai'i U.S. Fish and Wildlife Service Wellesley College Woods Hole Oceanographic Institute Vassar College Yale University



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Publications

Astronomy

Aditya, J. N. H. S., *Jorgenson, R. A., Joshi, V., Singh, V., An, T., & Chandola, Y., "uGMRT detection of associated H I 21-cm absorption at z3.5," 2020, MNRAS, 500, 1, 998.

Simha, Sunil, et al. (including *Chittidi, J. S. and *Jorgenson, R. A.), "Disentangling the Cosmic Web toward FRB 190608" 2020, Astrophysical Journal, 901, 134.

Littlefield, C. et al. (including *Walker, G.), "The Rise and Fall of the King: The Correlation between FO Aquarii's Low States and the White Dwarf's Spin-down" 2020, Astrophysical Journal, 896, 116L.

*Chittidi, J. S., Simha, S. H., *Jorgenson, R. A., et al. "Disentangling the Source of a z = 0.11 Fast Radio Burst (FRB) Dispersion Measure (DM)" 2020, American Astronomical Society Meeting Abstracts #235, #208.03.

*Ealy, J. "A Multi-Epoch X-Ray Study of Star Formation in IC 348" 2020, American Astronomical Society Meeting Abstracts #235, #110.21.

*Massoud, A. A., King, L. "Identifying Strong Lensing Images in the Unusual Merging Cluster Abell 2146" 2020, American Astronomical Society Meeting Abstracts #235, #303.02.

*Mintz, A., *Jorgenson, R. A., Rafelski, M. "Probing the High-Redshift Circumgalactic Medium (CGM) Through Quasar Absorption Line Tomography "2020, American Astronomical Society Meeting Abstracts #235, #205.06.

*Mulcahey, C. R., Prichard, L. J., *Jorgenson, R. A. "Deciphering the Origin of Ionized Gas in IC 1459using VLT/MUSE" 2020, American Astronomical Society Meeting Abstracts #235, #207.17.

*Olvera, R. R., Montez, R., Castro, D. "Median Energy Imaging of Supernova Remnants in the Magellanic Clouds" 2020, American Astronomical Society Meeting Abstracts #235, #276.11.

*Stolle-McAllister, G., Muirhead, P., *Walker, G., Han, E., *Jorgenson, R. A. "Investigating an Activity Cycle on Eclipsing Binary Star FL Lyr" 2020, American Astronomical Society Meeting Abstracts #235, #170.28.

*Walker, G.E. "Wills CMOS replace CCD's for Astronomy?" 2020, American Astronomical Society Meeting Abstracts #235, #175.01.

* Indicates MMO affiliated author

History

Publications by: Jascin N. Leonardo Finger

 $American \ Astronomical \ Society \ online \ article for column \ of \ Historical \ Astronomy \ Division. "This Month in \ Astronomical \ History: America's \ First \ Woman \ Astronomer: \ Maria \ Mitchell." \ August \ 2020.$

Woods Hole Oceanographic Institution: Online article and exhibit and plaque text for room dedication at WHOI in memory of WHOI biologist and founder of modern oceanography, Mary Sears.

Presentations

Maria Mitchell Women of Science Symposium Closing Remarks, October 2, 2020, Jascin N. Leonardo Finger.

"Lovely Oceans," MMA Science Speaker Series, June 3, 2020, Jack Dubinsky.

"Strange Extragalactic Signals: E.T. or Something Natural?," Linda Loring Nature Foundation Science Pub, April 13, 2020, Jay Chittidi.

"Learning from Star Shadows: Investigating an Activity Cycle on Eclipsing Binary Star FL Lyrae," Kenyon College Thesis Defense Presentation, May 14, 2020, Georgia Stolle-McAllister.

"Strange Signals and a Cosmic Conundrum: Using Fast Radio Bursts to Uncover the Universe's Hidden Matter," MMA Science Speaker Series, June 24, 2020, Jay Chittidi.

"Why We're Shutting Down STEM: A Movement to Fight Racism in Academia," June 12, 2020, Jay Chittidi, Molly Zegans, Regina Jorgenson.

"MariaMitchell Association Celebrates International Observe the Moon Night," September 28, 2020, Georgia Stolle-McAllister and Regina Jorgenson.

"Pushing the Envelope with sCMOS," AAVSO meeting on Instrumentation, September 26, 2020, Gary Walker.

National Science Foundation Research Experiences for Undergraduates (NSF-REU) Intern Presentations, August 5, 2020, Devon Barros, Kiana Burton, Sarah Graber, Alex Granados, Andrea Mejia, Natalia Villanueva (See page 6.)

Awards

Alexandra Mannings (MMO 2019), participant in the Fast and Fortunate for FRB Follow-up (F4) collaboration as a graduate student at U.C. Santa Cruz, was awarded a prestigious National Science Foundation Graduate Research Fellowship.

Kiana Burton (MMO 2020, Temple University) was awarded the prestigious Chambliss Astronomy Achievement Award for her research presentation entitled "First Millimeter Flares Detected from Epsilon Eridani with ALMA" and completed under the guidance of Dr. Meredith MacGregor (MMO 2009).



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