“When we are chafed and fretted by small cares, a look at the stars will show us the littleness of our own interests.”

MARIA MITCHELL
AMERICA’S FIRST WOMAN ASTRONOMER
The mission of the Nantucket Maria Mitchell Association is to create opportunities for all to develop a life-long passion for science through education, research, and first-hand exploration of the sky, land, and sea of Nantucket Island. In fulfilling our mission, we recognize the historic persona of Maria Mitchell, the foremost American woman scientist and educator of the nineteenth century, and her potential impact on contemporary thought by passing on her legacy of intellectual curiosity, respect for and love of nature, learning by doing, and the ideal of individualism.

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2019 Was a Year to Remember at the Maria Mitchell Association

For over 100 years, The Maria Mitchell Association has been an integral part of the fabric of the Nantucket community. We conduct state-of-the-art research in the field of astronomy while providing hands-on learning opportunities for people of all ages interested in the natural sciences, as well as the history of Maria Mitchell, our inspiration. We are particularly proud of our efforts this year, in concert with our friends at the Nantucket Land Bank, to build a fully accessible Discovery Playground with “Everyday Science.” What better way to learn about science than to experience it on one of the many pieces of equipment. With thanks to our donors and collaborators, we raised over $1.5 million to make this special playground a reality for our community and the results are extraordinary. Based on attendance since the playground opened in September 2019, it is projected that we will see over 20,000 people visit and enjoy Nantucket’s Discovery Playground each year.

But 2019 was also about many of our other achievements and milestones that are best illustrated by reviewing the numbers:

- 18,000 learners of all ages served in 525+ public programs;
- 10,000+ annual visitors to the Aquarium, Natural Science Museum, Historic House, and Vestal Street Observatory learned about the nature and people of Nantucket;
- 4,000+ attendees studied the Nantucket night sky at our Open Nights at Loines Observatory;
- 3,000+ people learned about science at our summer Pop-Up Science cart in and about town;
- 66 collaborations occurred with non-profits, businesses, and foundations;
- Tens of thousands of children visited our new Discovery Playground featuring “Everyday Science;”
- 32 college interns received valuable training and work experiences in preparation for careers in STEM fields;
- 50+ middle school and high school students from Nantucket (and beyond) mentored;
- 120 fifth grade Nantucket students learned about and planted native trees on island;
- 450+ families attended the Annual Nantucket Science Festival - the island’s biggest mid-winter family event;
• 16 scientists spoke throughout the summer at our Science Speaker Series;
• 575 Discovery campers learned about the nature of Nantucket;
• 33 families received camp scholarships thanks to the generosity of others;
• 700+ MMA members took advantage of everything we have to offer;
• 5 new exhibits graced our Natural Science Museum.

We are deeply appreciative of the community's support and encouragement to ensure that science education and research opportunities will always be available to children, students, and adults who have a passion for learning and the curiosity to discover something new.

With appreciation,

David Gagnon
Executive Director
New Initiatives
2019 brought significant change to the Astronomy Department - most notably with the implementation of a new, large National Science Foundation (NSF) grant to fund a year-round, post-baccalaureate MMO Research Fellow position. The goal of this fellowship is to support traditionally underrepresented students in astrophysics as a way to increase diversity and inclusion in STEM, while working to solve one of the most exciting recent mysteries in astrophysics - the ‘missing baryons’ problem. The grant, entitled “Dissecting the Cosmic Web with Fast Radio Bursts,” supports the MMO’s creation of the Fast and Fortunate for FRB Follow-up collaboration with UC Santa Cruz in order to use the mysterious new phenomena of Fast Radio Bursts, or FRBs, to find the -50% of baryonic matter that is ‘missing’ from current surveys of the Universe. We were happy to welcome back former National Science Foundation Research Experiences for Undergraduates (NSF-REU) intern Jay Chittidi (Vassar College, Class of 2019) as the first MMO Research Fellow.

MMO Research
The flagship NSF-REU program received 210 applications for the six available positions. After an extensive review process, including phone interviews of the short-listed candidates, six outstanding students were selected:

•Jordan Ealy (San Diego State University)
•Alexander Massoud (Ithaca College)
•Abigail (Abby) Mintz (Yale University)
•Celia Mulcahey (Mount Holyoke College)
•Roel Olvera (Texas Lutheran University)
•Georgia Stolle-McAllister (Kenyon College)

Each student was paired with an individual research project - with topics ranging from eclipsing binary stars and X-ray studies of star formation to galaxy formation and cosmology - and was mentored by Dr. Jorgenson, Gary Walker, and in some cases an additional affiliated astronomer (AA). This summer, we were joined by six AAs:

•Dr. Daniel Castro (Chandra X-Ray Center, Center for Astrophysics | Harvard & Smithsonian)
•Dr. Lindsay King (University of Texas, Dallas)
•Dr. Rodolfo Montez, Jr. (Chandra X-Ray Center, Center for Astrophysics | Harvard & Smithsonian)
•Dr. Philip Muirhead (Boston University)
•Dr. Laura Prichard (Space Telescope Science Institute)
•Dr. David Principe (Massachusetts Institute of Technology)

Each AA visited the island to work directly with students and gave a public talk as part of the MMA’s Science Speaker Series. We began the summer with the “Python Bootcamp” - a two-day intensive workshop aimed at getting the students up to speed on the latest computer programming language widely used in astrophysics. The common observational project, using the MMA’s 24-inch telescope, focused on observations of two targets - the long-running monitoring of MWC349 and FL Lyra - an eclipsing binary star with unusual behavior. In mid-summer, the interns were treated to a visit by astronaut Drew Feustal and his wife Indira, who met privately with the interns before his talk at the Dreamland. In August, all of the students presented ten-minute talks on their research projects to the public as part of the MMA’s Science Speaker Series.
In January 2020, the interns successfully presented research posters at the 235th meeting of the American Astronomical Society (AAS) meeting held in Honolulu, Hawai‘i. We are happy to report that intern Abby Mintz (Yale University) was awarded the prestigious Chambliss Astronomy Achievement Award for her research poster, entitled “Probing the High-Redshift Circumgalactic Medium Through Quasar Absorption Line Tomography” and completed under the guidance of Dr. Jorgenson. The AAS also saw the occurrence of the fifth annual MMO alumni breakfast. Generously sponsored by Ball Aerospace, Planewave Instruments, Thirty-meter Telescope International Observatory, and STARTorialist, the breakfast brought together over forty MMO alumni and friends.

Open Nights at Loines Observatory
It was an average summer for Open Nights at Loines Observatory with approximately 30% cancellation due to bad weather. In total, we welcomed 1,600 visitors and made $15,000. Our single-night attendance record of 193 visitors happened on July 29. Vestal Street Observatory daytime tour visitation held steady at approximately 200 visitors over the course of the summer. We continued to offer private Open Nights for various school and private groups.

On November 11, we hosted a special public outreach event in celebration of the transit of Mercury. 150 visitors stopped by Vestal Street to take a peek at Mercury passing in front of the Sun through our solar telescope and Sun Spotter. In winter 2019, we welcomed Bennington Field Work term student Ariel Mora, who worked with Gary Walker on observations of the symbiotic variable star V0694 Mon.

Staff News
Dr. Jorgenson was awarded time on the Gran Telescopic Canarias, a 10.4-meter Spanish telescope, with her collaborator Dr. Monica Relano-Pastor for a project entitled “Searching for Lyman-alpha emission in Damped Lyman-alpha Systems.” Dr. Jorgenson continued her bi-weekly radio interview entitled “Looking Skyward,” on current events in astronomy, with John Basile of the Cape and Islands National Public Radio station WCAI. Dr. Jorgenson served on professional scientific committees for the Hubble Space Telescope Time Allocation Committee and began serving a three-year term on the AAS’s Committee on the Status of Women in Astronomy (CSWA), as well as acted as a manuscript referee for “Astrophysical Journal” and the “Monthly Notices” of the Royal Astronomical Society. Dr. Jorgenson attended the Inclusive Astronomy 2 meeting in Baltimore, MD, as well as an Alan Alda Center for Science Communication workshop entitled “Power Connection: Reshaping the Future for Women in STEM.”

MMO Telescope Engineer Gary Walker has been active in supporting the installation of the Mittelman Telescope in New Mexico along with Arne Henden and the Sliski family, and he continues regular remote observations with the Sierra Remote Observatory.

Astronomy
In 2019, the Natural Science Department continued its goals of preserving and displaying the biodiversity of Nantucket County and conducting research on invertebrates, birds, and marine biodiversity. This year, the collections on display in Hinchman House were updated with island habitat-themed groupings of specimens and accompanying narratives.

The Aquarium and Natural Science Museum were open from 4 June through 31 August. Visitation increased at the Aquarium but decreased slightly at the Museum when compared with 2018. This is not surprising since in the past two years we had the 2018 eclipse event and the 200th birthday party at the Hinchman House, allowing free admission to hundreds of visitors. In the past two years, we have received a grant from the Highland Foundation to open all of our facilities for free on a Friday during the summer. This summer, we held the MMA “Free Fun Fridays” on July 19.

The MMA Research Center was busy this summer. It was used as the home base for the Owl Prowls and for the Nantucket Shellfish Association Board meetings. Additionally, Afnaan, Faizaan, and Daanish Qureshi taught robotics classes and Jack Dubinsky taught “Microscope Mayhem.” The museum interns learned to prepare study skins and a few public talks were held at the MMA Research Center. MMA Discovery Camps used the Research Center on rainy days.

Natural Science Collections Manager Julia Blyth, along with several interns and six volunteers, prepared twenty-six bird specimens for the Edith F. Andrews Ornithology collection, and four for the education collection. Additionally, we started to take tissue samples from Barn Owls for future staple isotope analysis. We shared this owl specimen with the Museum of Comparative Zoology in Cambridge, MA; researchers there will prepare the specimen, retaining its trunk skeleton and tissue samples, and return the study skin to the MMA. We have been working on implementing a way for the MMA’s biological collections to be available to visitors in an online portal.

The gift shops continued to move away from plastic items and toward higher-end
gifts and educational toys. This year the museum gift shop was moved into the hallway of the museum, making it more accessible.

Research programs consisted of ongoing projects and new projects. The MMA continued to collaborate with the Nantucket Conservation Foundation on the long running Whip-Poor-Will survey and regional horseshoe crab survey. The Aquarium interns led the Marine Invader Monitoring and Information Program (MIMIC) in collaboration with the University of Massachusetts Field Station and the Massachusetts office of Coastal Zone Management. Isabella Fielding, a summer intern is conducting an oral history of birders on the island. To date, she has recorded interviews with Virginia (Ginger) Andrews, Ken Blackshaw, Burton (Spruce) Balkind, Julia Blyth, Libby Buck, Shea Fee, Skyler Kardell, Lee Morgan, Patricia (Trish) Pastuszak, Tucker Taylor, and Harvey Young.

We again received fish for the Aquarium from Marjorie Williams at the Cape Cod Museum of Natural History. We would also like to thank all of the fishermen and charter captains listed on the MMA Scientific Permit for their donations of specimens to the Aquarium.

The Nantucket Science Festival, hosted annually in March, remains the largest mid-winter community event for families. This year, we saw over 450 participants. We continue to collaborate with island non-profits, businesses, educators, and sponsors to make this free community event possible.
Education

A Growing Department
The MMA welcomed Molly Zegans as the new year-round Education Coordinator on March 8, 2019. Molly joined the Maria Mitchell team with a Bachelor’s degree in Biology from Lewis and Clark College and significant experience from Mass Audubon’s Boston Nature Center in Mattapan. Molly served in multiple capacities at the Nature Center including Naturalist, Preschool Teacher, Assistant Director for the summer camp, and Coordinator of the summer field trip program. Here at the MMA, Molly is responsible for managing the Summer Discovery and Environmental Education Internship Programs under the direction of Kim Botelho. During the 2019 school year, she took the lead on organizing and leading school programs for preschool through 3rd grade and was instrumental in the development of new public programs for children and families including our first “Halloween Hike” at the State Forest, “Tales for Tots”, owl and bat lessons for preschoolers at the Lighthouse School, and “A Night at the Museum,” our first over-night program. Molly also helped with traditional MMA education initiatives such as the annual Nantucket Science Festival, assisting the Nantucket Land Council with 5th grade Vernal Pool field trips, teaching our “Reptile Round Up” 3rd grade Enrichment Series, and was the lead planner and facilitator of the Winter Discovery Camp.

More amazing changes for the Education Department in 2019, were the completion of a new classroom, office, and storage space in the basement of the Hinchman Natural Science Museum. The Museum was also moved under the management of the Education Department and out of the Natural Science Department in order to build a more comprehensive internship program, develop a student mentorship program, and to design activities and exhibits that compliment school field trips to the facility in conjunction with the new classroom.

State-wide, Regional, and National Efforts
In 2019, MMA’s Director of Education, Kim Botelho, stepped down from the Board of the Massachusetts Environmental Education Society (MEES) but still remained an active member. On October 26, she was voted onto the Board of the New England Environmental Education Alliance (NEEEA) as a Massachusetts representative. Kim represented both MEES and NEEEA at the North American Association of Environmental Education’s annual conference in Lexington, KY. Additionally, Kim represented the MMA as a partner of the National Informal STEM Education Network (NISEnet) at their Earth & Space Meeting in Tempe, AZ. This free professional development opportunity also provided the MMA with many resources and activities that were included in the 2019 Nantucket Family Science Festival. Additionally, the NISEnet partnership also led to the award of Sustainability...
Education

Fellowship for the MMA that included a $1,000 stipend to build plans and camp lessons for the Giving Garden.

**Education Programs**

In 2019, MMA offered two afterschool series including “Animal Adaptations” for grades K-2 and “Spooky Science” for grades 3-5. Classroom programs included “Trees and the Community” for all 5th grade classes in both public and private schools, “All About Reptiles” for the Children’s House, and an in-depth look at the importance of color, patterns, and scale shape of reptiles for all public school 6th graders. This new program was designed with the intent of creating a permanent partnership with the school that would provide opportunities for art exhibits in the Natural Science Museum and would give students the chance to become animal care volunteers through a Museum Mentorship program. We also provided several field trips including “Beach Exploration” for all public school kindergarteners and “Salt Marsh Ecology” for 7th and 8th graders from New Canaan Country Day.

A major initiative to enhance science education for kindergarteners was launched in December 2019. The MMA began monthly visits to all six classes at the Nantucket Elementary School. These presentations include stories, live animal programs, hands-on activities, and take home sheets for parents and children.

In September, Kim partnered once again with the Nantucket Conservation Foundation (NCF) to offer “All About Bats” which included an indoor presentation at the MMA about bat adaptations and the opportunity to see bat specimens collected on Nantucket. Following the presentation, the group journeyed to NCF’s mist net station for a first hand glimpse of bat research in progress. This year, we caught two Northern Long Eared Bats and one Red Bat for the first time.

**Summer Discovery Camp**

This was another exciting year for the Summer Discovery Program. For the third straight year, we received first place as the best children’s activity on Nantucket in *Cape Cod Life*! We were also able to award more scholarships than ever before in the history of this program. Thanks to the generosity of the Ella George Children’s Foundation, we provided twenty-one scholarships to English Language Learning families and twelve additional family scholarships for a total of thirty-three valued at $16,000. We are also grateful to Al and Mary Novissimo who donated $1,000 for our Island Family Assistance Program.
After the events of the 200th Birthday, one would think things might be a bit quieter but such was not the case at the Mitchell House.

For 2019, we continued with the adult preservation workshops on stone monument conservation, the “Daring Daughters of Nantucket” walks, and the very popular collaborative “Four Centuries Domestic Architecture” walks with Nantucket Preservation Trust and the Nantucket Historical Association. In 2019, we introduced a new class for children at Mitchell House that was created by the 2018 Mitchell House intern, Kelly Bernatzky. This camp is a week-long, all day adventure for children ages 7-11 in which they are immersed in all things Maria Mitchell, Nantucket, and nineteenth century. A fully hands-on experience, children make butter, sew “pockets,” create their own storefronts and board games, take an architecture walk, play games of the nineteenth century, make kaleidoscopes, and tinsmith among many other activities. The Mitchell House plays a central role in their learning as well.

Conservation, as always, is a year-round task – from a focused and conservation-minded dusting and vacuuming to keep dust, insects, and mildew at bay, to focusing down to specific artifacts for their maintenance and conservation. Mitchell House staff were able to clean all of the windows inside the House – not an easy task especially because of the UV filters. Thus, cleaning has to be focused and careful. A focus was also placed on conservation of a new donation which allowed the summer intern to learn about the conservation of furniture in a collection and the process of accessioning. A large book donation from Reva and Mort Schlesinger that we received several years ago is also being processed by a volunteer and ephemera from the Schlesingers was carefully cataloged and archivally foldered by another volunteer with a finding aid created. This
collection is Nantucket-focused and will be available to researchers. Unfortunately, in the Archives we had a dehumidifier that decided it was tired from all its hard work. With part of the larger HVAC system that was originally grant-funded, we were able to replace it with monetary gifts already on-hand for conservation. With the 2018’s intern’s return for the fall, we were able to clean and accession some items that were removed from the Mitchell House about thirty years ago and unearthed during the Library’s renovation into the Research Center. Other small conservation projects were conducted on the Mitchell House and Archives and Special Collections and on the Mitchell House itself.

Sadly, all things must come to an end. And in the winter, the curator removed the Maria Mitchell “Celebrating Maria Mitchell and Her Legacy” exhibit at the Nantucket Historical Association’s Whaling Museum and the window display at Hingham Bank on Main Street – both celebrating Maria Mitchell’s 200th Birthday. The MMA is grateful for the opportunity to have shared all about Maria and her life with a greater audience.

Of course, August 1, 2019 saw a great crowd on Vestal Street with music of the period by Susan Berman and friends, Lizza Obremski with her “Nanpuppets,” celestial refreshments, and fun activities for all ages. A thank you to the donors of our cookies which included: Nantucket Bake Shop, Something Natural, the Culinary Center, and several MMA board members. And a smaller but continuing event – the Seven Sisters Tea – also occurred during the summer. During this event, women who attended the Seven Sisters Colleges meet for a get-together to celebrate Maria Mitchell and the first women’s colleges – one of which – Vassar – Maria Mitchell taught at.

Throughout the year, the Mitchell House had numerous research inquiries and requests for use of historic images in multiple publications. This included a publication on women by the University of Connecticut, an exhibit at the University of North Alabama, an upcoming Nantucket book on Anna Gardner, a Zaner-Bloser textbook on American history, and Los Angeles’ Griffin Observatory’s quarterly publication, as well as research requests by authors, researchers, and students. Happily, the new picture book What Miss Mitchell Saw by Hayley Barrett was also released in the fall. So we now have a newer picture book to inspire young girls and boys about reaching for the stars! Hayley Barret will be visiting with island schools, arranged by the Mitchell House, in the spring and fall of 2020.
The MMA continued to focus on the preservation and repair of all of our buildings, particularly on Vestal Street. Please remember the MMA if you have a lightly used appliance that you would like to replace. We have numerous sites that house staff and summer interns and are typically in need!

**Research Center:** While the building was completed in 2018, there were still a few outstanding smaller items to attend to. The old wood Bilco and basement entry were rebuilt allowing for better access. The west side was re-shingled and other small “clean-ups” were accomplished to the structure.

**Hinchman House:** Final work was completed to the basement of Hinchman House allowing it to become the Education office and classroom space. The old milk room and other spaces were also cleared out and organized. Expanded electricity was installed to make sure that the Aquarium life that lives with the MMA year-round has sufficient electricity and back-up electricity. The garden along the side of Hinchman House was cleaned up and new native plantings were introduced. New bike racks were installed for interns, as well as a public bike rack, thanks to assistance from Young’s Bicycles. In the dormitories, a few appliances were replaced with lightly used donations and new bedding, furniture, and other items in the living spaces were also replaced with donated or purchased items.

**Drake Cottage:** New flooring was installed in the Administrative Office bathroom and kitchenette, replacing the worn-out and original flooring. Windows were professionally cleaned for the entire building. Donations of several appliances and furniture helped to off-set any costs to replace broken and failing items.
space was cleaned out and assessments made on needs. Items that needed to be replaced. Rugs were professionally cleaned. With a generous donation from two neighbors, the MMA was able to replant some of the parking area and new bike racks were purchased with the help of Young’s Bicycles.

Maria Mitchell (MMO) and Loines Observatories: After several meetings with the Town’s Traffic Advisory Committee, we were able to purchase new crosswalk signs to help slow nighttime traffic and bring attention to pedestrians crossing from the bike path to Loines Observatory. The MMO’s native garden was replanted - with new additions to come in 2020. A new outdoor bench was purchased with a grant from the Nantucket Garden Club allowing for greater seating for the daytime Observatory tours and for enjoying the garden.

Aquarium and Washington Street Properties: These sites saw various repairs, as well as new appliances for properties in which staff are housed.

General: The gardens were a renewed focus in 2019 with new native plantings installed by the Deputy Director. A portion of a grant from the Nantucket Garden Club in the fall of 2019 allowed for the purchase of some new seating and will cover costs associated with more native plantings in the spring of 2020. Various repairs were made to all of the buildings as needed. Where able, the MMA took donations of lightly used appliances or furniture in order to save on costs for items that needed to be replaced.
The MMA’s Nantucket Red Tie Soirée, our largest annual fundraiser, was held again at the Sankaty Head Golf Club on Sunday, July 14. The evening’s theme was a celebration of the 50th anniversary of Apollo 11 and special guest Dr. Jennifer Levasseur, Curator of the Space History Department at the Smithsonian National Air and Space Museum provided remarks. In addition to dancing to the Perry Rossi Band and enjoying delicious catering provided by the team at Sankaty, we offered a large silent auction. Sponsorship donations and ticket sales were in-line with previous years and the event was a success in celebrating our mission and work, while raising much-needed revenue to fund our programs and internships.

Another well-received event in 2019 was our Executive Director Garden Party and Picnic at 3 Vestal Street. Held on Tuesday, August 13, members, donors, and partners joined us for an intimate gathering to honor our mission and hear our strategic plans for the future.

Similarly, the MMA Honorary Board gathered for a lovely luncheon at the Nantucket Yacht Club. The event created an opportunity for our Honorary Board to offer advice and provide feedback on our goals and strategic plans.

In late September, we again brought friends and supporters together for “A Celebration of Science and Discovery.” Hosted and co-sponsored by Bank of America, the gathering featured opening remarks by Dr. Maria Zuber the E. A. Griswold Professor of Geophysics and Vice President for Research at Massachusetts Institute of Technology (MIT).

Two other notable cultivation events included our Discovery Playground Grand Opening and our popular Science Speaker Series.
Red-Tie Soirée

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Joan & Roy Gustaveson
Barbara & Edmund Hajim
Barbara & Jerry Hamelburg
Natasha & Jason Harman
Charles Hartjen
Kyra & Charlie Haydock
Lucy & Patrick Hehir
Maria C. Hemsley
Todd Herbst
Dorothy K. Hesselman
Lynne & Jeffrey Heyer
Stacey Hidgon
Hobson Family
Megan Hodgson
Sandi Holland & Alfred Sanford
Hollie & Jamie Holt
Gloria & Jeffrey Holtman
Kimberly Homer
Seth D. Hornstein & Sarah Lipscy
Ann & George Hubbs
Virginia & Richard Irwin
Island Treasures LLC
Cecil & Paul Jensen
JNC Fund of the Saint Paul Foundation
Ann & Charles Johnson
Cindy & Evan Jones
Harvey Jones
Judith T. Karpen
Betty Kenan
Sanford Kendall
Patty & Gerry Keneally
Martha & Donald Kent
Deborah Killen & William Lothian
Killen Real Estate
Dr. Margaret Koehm
Emily & Andrew Kotchen
Quincy Kresler
Denice Kronau & Michael Reitermann
Sheila & John Lathrop
Lucy Lau & Christopher Keogan
Galaxy of Support

Edith & Salvatore Lentini
Margaret & Terry Lenzner
Judith & Edwin Leonard
Cathleen & Timothy Lepore
Susan & Larry Levine
Joyce & Michael Levy
Olivia Lewnowski
Victoria Livingstone
Marlaine Lockheed & Steve E. Frakt
Pamela Lohmann
Thomas B. Loring
Robert & Peter Louderback
Nancy & Richard Lubin
Warren Lyman
Karen & Malcolm MacNab
Karen Marisak & Gerard Lynch
Susan McCarthy & Robert Giacchetti
Margaret McGetrick
Mary Lou McGuire
Andrew McKenna-Foster
Beth & Kevin McMeen
Katie & Bill McNabb
Jane & Robert McMeen, III
Pamela & Richardson Merriman
Jane & John Miller
Polly & Nick Miller
William C. Miller, IV
Sue Minkoff & John Zweck
Miriam & Herbert Mittenthal
Joyce & Michael Montalbano
Carl M. Mueller
Jacqueline & James Murphy
Murray Camp of Nantucket
Wendi Murrell & Geoffrey Smith
Deneige Nash
Anna & Larry Nathanson
Jennifer R. Nelson
Sarah Neroni & David Yuen
Sharon & David Northrup, Jr.
Mary & Al Novissimo
Lorraine & Robert Olson
Emily & Peter Osley
Joseph R. Paul
Perkins Library Summer Readers
Amanda Perry
Anita Philbin
Melissa & Nathaniel Philbrick
Jennifer & Dan Platt
Eileen & Elliott Pollack
Peg & Jay Rachfal
Jennifer & Frank Rand

Joanna Rankin
Ellen & Homer Ray
John W. Reed
Gretchen & Jay Riley
Karen Ringwald
Susan Robinson
Kara Rogers
Priscilla & Kermit Roosevelt
Suanne Rorick
Joan A. Rosenberg
Jennifer & Jeffrey Rosenthal
Robin & Mickey Rowland
Cordelia & James Russell
Andrea Ryder
John Sackton
Samuel P. Mandell Foundation
Carl Michael Sangree, Jr.
Gayle & Joseph Santucci, Jr.
Priscilla & Lee Saperstein
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Sharon & John Sayles
Denise Schwed
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Mary & Don Shockey
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Alan Sliski
Dana Slusky
Rev. Dr. Ruth Smalt
Molly & Bryan Sorrows
Laura & Brian Steele
Lea Stevens
Jennifer & Seth Stier
Parker Stephenson & Omar Al-Farisi
Lea & Chip Stevens
Ann & Bob Stock
Dominicana & Eric Stone
Kathy & Gregory Sullivan
Jonathan Swain
Frances Symes
Carol & Jim Tanzola
Lee Venolia & John Thoman
James H. Thomas
Charlene & Barry Thurston
Derek E. Till
Helen & John Trebby
Kelly Trotter
Peter Vennema
Janet & Philip Villiotte
Shelley & Gary Vogel
Irene & Laszlo Von Lazar  
W. B. Marden Co.
Kathy & Gary Walker  
Pamela P. Waller  
Laura Wasserman  
Judith & Joel Weinstein  
Elizabeth Weiss  
Scott Widmeyer & Alan Yount  
Elizabeth & Hugh Wilkinson  
Will Brown Fund  
Emily & Tom Wood  
Camille & Art Wyatt  
Carly & Jon Zehner  
John Zweck  

In Honor / Memory Gifts

In Honor of Ginger Andrews  
Gillian & Jim Duda  
Tharon & Lee Dunn  
Virginia & Richard Irwin  

In Honor of Daniel W. Drake  
Betty P. Kenan  

In Honor of Abby Mintz  
Helaine Greenfield & Richard Mintz  

In Honor of Elizabeth Pellegrini  
Denise Ann Barrett  
Jerry Goodwin  
Charles Hartjen  
Carol & Jim Tanzola  

In Honor of Brian Sullivan  
Joyce Montalbano  

In Memory of Adam Bloom  
Adam Bloom Memorial Scholarship Fund  
Iris & Howard Burkat  
Drs. Margaret & John Goldman  
Susan & Larry Levine  

In Memory of Leslie Feder  
Feder Gordon Family Fund  

In Memory of E. Dorrit Hoffleit, Ph.D  
Lucia & Richard Brimer  

In Memory of John H. Cabot  
Jeanne & Blakeslee Barnes  

In Memory of Mary Hotung Ketterer  
Barbara & Clive Viney  

In Memory of Alwin Steinmayer, Jr.  
Janet Steinmayer  

In Memory of Jane Merrill  
Sanford Kendall  
Tamsen Merrill & Gregory Thorp  

In Memory of Diane “Dee” Unruh  
Camille & Art Wyatt  

In Memory of Sai Vallabha  
John Reed  

Grant Support

Arizona State University  
CARE for the Cape & Islands  
Community Foundation for Nantucket  
The Cricket Foundation  
Ella George Children’s Foundation  
Fund for Astrophysical Research, Inc.  
Greenhound LLC  
Harbor Fuel, Yates Gas & Island Gas  
Highland Street Foundation  
Mass Development  
Massachusetts Environmental Education Society  
Max and Victoria Dreyfus Foundation  
M. S. Worthington Foundation  
Nantucket Garden Club  
Nantucket Golf Club Foundation  
Nantucket Shellfish Association  
NASA Massachusetts Space  
National Science Foundation  
NCH Community Health Fund  
ReMain Nantucket Fund  
Theodore Dunham Fund for Astrophysical Research  
Town of Nantucket – Community Preservation Committee
Galaxy of Support

Restricted Gifts

Astronomy
Ball Aerospace
Steven & Patricia Barnett
Seth Hornstein
Nantucket Dermatology
TMT International Observatory

Barn Owl / Osprey Program
Leanne Marie Bell
Ruth & Robi Blumenstein
Susan & Coleman Burke
Kirsten & Lindsay Congleton
Laura Crocker
Denise & Jeffrey Dickson
Margaret & John Falk
Lynne & Jeffrey Heyer
Cindy & Evan Jones
Sonya Keene & John Moy
Maria & Peter Kellner
Patty & Gerry Keneally
Sarah & Rick Knauf
Susan & William Learnard
Sherry Lowe
Medouie Creek Associates
Polly & Nick Miller
Samantha & Mark Sandler
Gladys & James Stedman
Ann & George Thom
Meredith & Richard Tolsdorf
Ellen & Gary Tratt
Bill Untereker
Allison & Phillip Waterman, III
Landis & Brace Young
Carlyn & Jon Zehner

Birdathon
Kim Botelho
Curt Burwell
Gillian & James Duda
Tharon & Lee Dunn
Kim & Tom Griswold
Virginia & Richard Irwin
Anne & Robert Kennedy
Trish Pastuszak
Barbara & Bill Maple
Andrew McKenna-Foster

Helene Patterson & Leo Mullen
Barbara & Clive Viney

Education Program
David Boyce
Lynn Cossuth
Island Treasures LLC
Stephen Welch

In-Kind
Tricia & John Hartner
Heather Vance

Intern Program
Mariann Berg Hundahl Appley
Janet & Sam Bailey
Birch Family Fund
Lucia & Richard Brimer
Susan & David Brownwood
Ann Buttrick
Kathy Gallaher
Fay Gambee
Gilbert Verney Foundation
Missy & Chris Griffiths
Barbara & Alan Medaugh
Joan & Michael Nelson
Molly & Chris Paiement
Jennifer & Jeffrey Rosenthal
Bonnie M. Sacerdote
Dominicana & Eric Stone
Leigh M. Topham
Michael L. Trimpi

Nantucket Science Festival
Beverly A. & David H. Barlow
Nantucket Land Council, Inc.

Pop-Up Science
Bartlett’s Ocean View Farm
Cisco Brewers
ReMain Nantucket Fund

Program Book Sponsors
ACK Dental Art
Allied Group
Brownell’s Garage
Chip Webster & Associates
Christopher’s Home Furnishings
Hanley Construction & Development
Donations & Gifts

Hatch's Package Store
Jordan Real Estate
Nantucket Architecture Group
Nantucket Pool & Spa Center
Pinwheels, Inc.
Pioneer Cleaning
The Tile Room
Young's Bicycle Shop & Car Rental

Science Speaker Series
Bank of America Foundation
Cisco Brewers
Nantucket Island Resorts
Zaazey LLC

Donations

Mitchell House and the Archives and Special Collections received several gifts this year. They included:

Virginia Andrews - a child’s wood armchair with an upholstered seat; Recollections of Lydia S. Hinchman, 1929.

John McLaughlin – Recollections of Lydia S. Hinchman, 1929, 2 copies; A Biographical Sketch of Charles S. Hinchman, 1930.


Ashley Clauss – 15 pamphlets about Nantucket dating to late 19th and early 20th century.

# THE NANTUCKET MARIA MITCHELL ASSOCIATION, INC.

## STATEMENT OF FINANCIAL POSITION

**DECEMBER 31, 2019**

(With Summarized Financial Information for 2018)

<table>
<thead>
<tr>
<th>Assets</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>$153,543</td>
<td>$357,355</td>
</tr>
<tr>
<td>Receivables</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contributions</td>
<td>102,126</td>
<td>114,626</td>
</tr>
<tr>
<td>Grants</td>
<td>-</td>
<td>29,691</td>
</tr>
<tr>
<td>Other</td>
<td>41,339</td>
<td>31,959</td>
</tr>
<tr>
<td>Prepaid expenses and other assets</td>
<td>8,028</td>
<td>9,844</td>
</tr>
<tr>
<td>Investments</td>
<td>2,526,244</td>
<td>2,575,712</td>
</tr>
<tr>
<td>Note receivable</td>
<td>235,000</td>
<td>235,000</td>
</tr>
<tr>
<td>Remainder interest in property</td>
<td>1,270,669</td>
<td>1,270,669</td>
</tr>
<tr>
<td>Property and equipment, net</td>
<td>6,447,533</td>
<td>6,616,073</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td>$10,784,482</td>
<td>$11,240,929</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Liabilities and Net Assets</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Current liabilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued liabilities</td>
<td>$168,737</td>
<td>$152,791</td>
</tr>
<tr>
<td>Note payable, bank</td>
<td>100,000</td>
<td>-</td>
</tr>
<tr>
<td>Current maturities of long-term debt</td>
<td>12,869</td>
<td>12,408</td>
</tr>
<tr>
<td>Refundable grants</td>
<td>-</td>
<td>200,000</td>
</tr>
<tr>
<td><strong>Total current liabilities</strong></td>
<td>281,606</td>
<td>365,199</td>
</tr>
<tr>
<td>Long-term debt, less current maturities</td>
<td>1,052,736</td>
<td>1,065,605</td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td>1,334,342</td>
<td>1,430,804</td>
</tr>
<tr>
<td>Net assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without donor restrictions</td>
<td>5,785,556</td>
<td>6,330,984</td>
</tr>
<tr>
<td>With donor restrictions</td>
<td>3,664,584</td>
<td>3,479,141</td>
</tr>
<tr>
<td><strong>Total net assets</strong></td>
<td>9,450,140</td>
<td>9,810,125</td>
</tr>
<tr>
<td></td>
<td>$10,784,482</td>
<td>$11,240,929</td>
</tr>
</tbody>
</table>
THE NANTUCKET MARIA MITCHELL ASSOCIATION, INC.

STATEMENT OF ACTIVITIES

YEAR ENDED DECEMBER 31, 2019
(With Summarized Financial Information for 2018)

<table>
<thead>
<tr>
<th>Operating activities:</th>
<th>Without Donor Restrictions</th>
<th>With Donor Restrictions</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revenue and support</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contributions</td>
<td>$ 286,234</td>
<td>$ 20,878</td>
<td>$ 307,112</td>
</tr>
<tr>
<td>Grants</td>
<td>177,531</td>
<td>45,082</td>
<td>222,613</td>
</tr>
<tr>
<td>Programs</td>
<td>301,929</td>
<td>-</td>
<td>301,929</td>
</tr>
<tr>
<td>Admissions</td>
<td>52,272</td>
<td>-</td>
<td>52,272</td>
</tr>
<tr>
<td>Memberships</td>
<td>80,145</td>
<td>-</td>
<td>80,145</td>
</tr>
<tr>
<td>Museum Shop</td>
<td>14,379</td>
<td>-</td>
<td>14,379</td>
</tr>
<tr>
<td><strong>Special fundraising events</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross proceeds</td>
<td>134,448</td>
<td>-</td>
<td>134,448</td>
</tr>
<tr>
<td>Less: Direct benefit to donors</td>
<td>62,947</td>
<td>-</td>
<td>62,947</td>
</tr>
<tr>
<td><strong>Net revenue from special fundraising events</strong></td>
<td>71,501</td>
<td>-</td>
<td>71,501</td>
</tr>
<tr>
<td>Investment return designated for operations</td>
<td>147,514</td>
<td>-</td>
<td>147,514</td>
</tr>
<tr>
<td>Rental income</td>
<td>115,691</td>
<td>-</td>
<td>115,691</td>
</tr>
<tr>
<td>Interest income</td>
<td>1,622</td>
<td>-</td>
<td>1,622</td>
</tr>
<tr>
<td><strong>Net assets released from restriction</strong></td>
<td>66,473</td>
<td>(66,473)</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total revenue and support</strong></td>
<td>1,315,291</td>
<td>(513)</td>
<td>1,314,778</td>
</tr>
</tbody>
</table>

| Expenses               |                             |                         |        |
| Program services       | 1,206,040                   | -                       | 1,206,040 | 1,140,087 |
| Management and general | 583,962                     | -                       | 583,962  | 470,448  |
| Development            | 217,079                     | -                       | 217,079  | 277,926  |
| **Total expenses**     | 2,007,081                   | -                       | 2,007,081 | 1,888,461 |
| Change in net assets from operating activities | (691,790)                   | (513)                   | (692,303) | (500,507) |

| Non-operating activities: |                             |                         |        |
| Investment return, less amounts designated for operations | 57,464                     | 270,554                 | 328,018  | (281,904) |
| Contributions and grants restricted for capital activities | -                         | 11,500                  | 11,500   | 10,000   |
| Loss on uncollectible contributions receivable | (7,200)                     | -                       | (7,200)  | (11,750) |
| Donation of remainder interest in property | -                         | -                       | -       | 65,101   |
| **Net assets released from restriction** | 96,098 (96,098)             | -                       | -       | -       |
| Change in net assets from capital related restrictions | 146,362                     | 185,956                 | 332,318  | (218,553) |

| Change in net assets | (545,428)                   | 185,443                 | (359,985) | (719,060) |
| Net assets, beginning of year | 6,336,984                   | 3,479,141               | 9,810,125 | 10,529,185 |
| Net assets, end of year | $ 5,785,556                  | $ 3,664,584             | $ 9,450,140 | $ 9,810,125 |
Board, Staff, Interns & Volunteers

**Board of Directors**
Helene Weld, President
Judy MacLeod, Vice President
Curt Burwell, Treasurer
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Beverly Barlow
Margaret Falk
Chris Griffths
John Hartner
Toni McKerrow
Michael Nelson
Mary Archibald (Bebe) Poor, D.V.M.
Katherine Rhode, Ph.D.
Brian Sullivan
Frances Symes
Jane Tausig

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Daniel Drake, Joan Gulley, Judith Lee,
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Eileen McGrath, Nathaniel Philbrick,
Anne Parks Strain, Derek Till

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**Deputy Director**
Jascin N. Leonardo Finger

**Development Director**
George Donnelly

**Executive Administrator and Development Associate**
Lydia Gullicksen

**Finance & Information Administrator**
Katharine Robinson Grieder

**Data Specialist**
Vince Murphy

**Marketing Intern**
Cleo Payne

**Natural Science**
**Director of Natural Science**
Emily Goldstein-Murphy, Ph.D.
(Jan.- Feb., 2019)
Shelley Dresser (Mar.-Dec., 2019)

**Natural Science Affiliated Staff**
Robert S. Kennedy, Ph.D.
*Senior Research Fellow, MMA and Department of Ornithology, Harvard University Museum of Comparative Zoology*

Valerie A. Hall, Ph.D.
*Research Associate, Scallops*

Andrew McKenna-Foster
*Research Associate, Spiders*

Andrew McCandless
*Research Associate, Eel Grass*

**MMA Natural Science Museum Field Ornithologist**
Virginia Andrews

**Collections Manager**
Julia Blyth

**Animal Care**
Jordan McHugh

**Natural Science Interns**
Isabella Fielding
*B.A., Smith College*

Alyssa Meyer
*B.A., Indiana University-Purdue University Indianapolis*

Emily Miner
*B.S., Eckerd College*

Sylvi Oh
*B.S., University of Georgia*
Natural Science Adult Volunteers:

Natural Science Student Volunteers:
Olivia Barlow, Lily Bartlett, Rachel Blatt, Andrew Breckenridge, Sam Gaynor, Margot Goldsmith, Sophia Hall, Phoebe Hedstrom, Skyler Kardell, Sasha Kennedy, Elizabeth Pellegrini, Gus Von Lazar, Shea Lyden, Afnaan Qureshi, Daanish Qureshi, Faizaan Qureshi, Alex Rakowski, Alex Yuen

Astronomy Director
Jack Dubinsky

Astronomy Interns
Isabella Gaw, Skidmore College
Molly Erickson, U. of New Hampshire
Madeleine Phillips, Colgate University
Skylah Reis, Harvard University

 MMO Research Fellow
Jay Chittidi

NSF-REU Astronomy Interns
Jordan Ealy, San Diego State University
Alexander Massoud, Ithaca College
Abigail Mintz, Yale University
Celia Mulcahey, Mount Holyoke College
Roel Olvera, Texas Lutheran University
Georgia Stolle-McAllister, Kenyon College

 MMO Volunteer
Saoirse Ryan

Affiliated Astronomers
Dr. Daniel Castro
Chandra X-Ray Center, Center for Astrophysics | Harvard & Smithsonian

Dr. Lindsay King
University of Texas, Dallas

Dr. Rodolfo Montez, Jr.
Chandra X-Ray Center, Center for Astrophysics | Harvard & Smithsonian

Dr. Philip Muirhead
Boston University

Dr. Laura Prichard
Space and Telescope Science Institute

Dr. David Principe
Massachusetts Institute of Technology

Astronomy Director
Regina Jorgenson, Ph.D

Education
Director of Education
Kim Botelho

Education Coordinator
Molly Zegans
Staff, Interns & Volunteers

Field Supervisor/Aquatics Director
Liam Cusack

Discovery Program Instructors
Patrick Bailey
Emma Boehme
Olivia Brasher
Kathryn Brooks
Adrianna Calamita
Claudia Deeg
Emet Koffman
Madison Maguire
Natalie Moon
Margaret Sandusky
Jamie Semel
Dan Souza
Kyle Turner

Bus Driver
Roxanne Martin

Nurse Practioner
Nancy Lucchini

Volunteer - Tree Program
Annie Mendelsohn

Pop-Up Science Intern
Saoirse Ryan

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

Mitchell House Intern
Meg Bellavance
Connecticut College 2020
Kelly Bernatzky, Fall Intern
Vassar College 2019
(Mitchell House Intern 2018)

Volunteer Tour Guide
Patricia Michaelson, Ph.D

Student Volunteer
Avery Hylton

Maria Mitchell Women of Science Symposium
Committee Members
Gwyneth Packard, Co-Chair
Joe Santucci, Co-Chair
Curt Burwell
Jane Tausig
Kathy Rhode, Ph.D.
Sarah T. Bois, Ph.D.
Joel Bowman, Ph.D.
Mareshia Donald, Ph.D.
Patricia Michaelson, Ph.D.
Jascin Leonardo Finger, Ex-Officio, originator
Regina Jorgenson, Ph.D., MMA Staff
David Gagnon, MMA Staff
Shelley Dresser, 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.

**American Burying Beetle**
Lou Perrotti, Director of Conservation Programs, Roger Williams Park Zoo
Cynthia Corsair, U.S. Fish and Wildlife Service
Anita Barstow, U.S. Fish and Wildlife Service
Brandon Quinby, Purdue University, Ph.D. student

**Scallops, Shellfish**
Tara M. Riley, Town of Nantucket Shellfish Biologist
Dr. Valerie Hall, MMA Scallop Researcher

**Horseshoe Crabs, Insects, Bats**
Karen Beattie, Manager of the Department of Science and Stewardship, Nantucket Conservation Foundation
Dr. Derek Perry, Massachusetts Division of Marine Fisheries
Dr. Jennifer Karberg, Research Supervisor, Nantucket Conservation Foundation
Danielle O’Dell, Research Technician/Field Supervisor, Nantucket Conservation Foundation

**Snakes, Birds**
Danielle O’Dell, Research Technician/Field Supervisor, Nantucket Conservation Foundation
Scott Smyers, Environmental Consultant, Oxbow Associates Inc.
Joe Martinez, Curatorial Assistant, Museum of Comparative Zoology

**Green Crabs**
Emily Molden, Nantucket Land Council
Jeff Carlson, Natural Resources Department, Town of Nantucket
J.C. Johnsen, Natural Resources Department, Town of Nantucket

**Herbarium**
Roberta Lombardi, Herbarium Assistant, UMass Amherst
Pam Polloni, Research Assistant, Woods Hole Oceanographic Institute
Kelly Omand, Research Technician/Field Supervisor, Nantucket Conservation Foundation

**Astronomy**
Dissecting the Cosmic Web with Fast Radio Bursts | Supported by the National Science Foundation and the Fast and Fortunate for FRB Follow-Up FL Lyra observations in support of an observing campaign on the Hubble Space Telescope with AA Dr. Muirhead MWC349 continued monitoring NSF-REU research (see page 4.)

**Other**
Jessica Cundiff, Curatorial Associate/Collections Manager, Museum of Comparative Zoology, Sankaty fossils
Annie Mendelsohn, 5th Grade Tree Program funded by the Nantucket Garden Club
Dr. Kevin Esvelt and Joanna Buchthal, MIT, Mice Against Ticks Project
The Maria Mitchell Association is proud to establish collaborations with other non-profit organizations and universities in order to offer the best in programs and to conduct research vital to understanding and preserving Nantucket’s natural areas, history, and to pursue cutting edge research in astronomy using the MMA’s telescopes and leading telescopes around the world and in space.

ACKclimate
American Society of Mammalogists
American Arachnology Society
American Association of Variable Star Observers
Artists Association of Nantucket
Boston University
Cape Cod Museum of Natural History
Connecticut College
Egan Maritime Institute
European Southern Observatory
Fast and Fortunate for FRB Follow-Up (F4)
Instituto de Física at Pontificia Universidad Católica de Valparaiso (PUCV)
Josh Eldridge, “Critter Cruises”
Mark Gentner, Just Do It, Too
Harvard-Smithsonian Center for Astrophysics
Harvard University Museum of Comparative Zoology
Keck Observatory
Linda Loring Nature Foundation
Long Island University
The Mammal Society (UK)
Marine Biological Laboratory
Massachusetts Audubon Society
Massachusetts Division of Marine Fisheries
Massachusetts Space Grant Consortium
Massachusetts Institute of Technology
U.S. Fish and Wildlife Service
Massachusetts Division of Marine Fisheries
Museum of Comparative Zoology
Nantucket Bike Tours
Town of Nantucket Natural Resources Department
Monomoy Charters
Montessori Children’s House of Nantucket
Nantucket Atheneum
Nantucket Biodiversity Initiative
Nantucket Boys and Girls Club
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 Marine & Coastal Resources Department
Nantucket New School
Nantucket Preservation Trust
Nantucket Public Schools
Nantucket Shellfish Association
Nantucket Shipwreck & Lifesaving Museum
National Collaborative of Women’s History Sites
National Museum of Natural History
National Research Council of Canada
Northwestern University
Oxbow Associates, Inc.
Preservation Institute Nantucket
Prospect Hill Cemetery Association
Purdue University
Roger Williams Park Zoo
Rotary Club of Nantucket
’Sconset Trust
Shearwater Excursions
Town of Nantucket
The Trustees of Reservations
Tuckernuck Land Trust
University of Arizona
Universidad Nacional Autónoma de México
University of California, Santa Cruz
University of Hawaii
UMass Amherst
UMass Boston Nantucket Field Station
UMass Dartmouth School of Marine Science & Technology
University of Cape Town
University of Iceland
U.S. Fish and Wildlife Service
The Wildlife Society
Woods Hole Oceanographic Institute
Vassar College
Yale University
Publications & Awards

Astronomy Publications


(.note: * indicates MMO affiliated author)

Astronomy Awards

Two former NSF-REU interns were awarded prestigious NSF Graduate Research Fellowships. The NSF Graduate Research Fellowship provides three years of full funding support for graduate studies and national recognition from the scientific community. Congratulations:

- Holly Christenson (REU summer 2016): University of California, Riverside
- Tanveer Karim (REU summer 2016): Harvard University