



Stacy Moore Hagan Memorial Undergraduate Estuarine Science Internship Program



This program honors the memory of Stacy Moore Hagan, a former Stockton University undergraduate, whose career in Marine Science was initiated by a cooperative internship offered through Stockton's School of Natural Sciences and Mathematics (NAMS) and conducted at the Rutgers University Marine Field Station (RUMFS) in 1990. So that other Stockton students can follow in Stacy's footsteps, two awards have been established to support Stockton undergraduates for 8-week internship programs at the Rutgers and Stockton Marine Field Stations. **To date, \$42,500 in scholarship monies have been awarded through the Stockton Foundation to 17 students (11 Marine Science, 3 Biology, 3 Environmental Science).** Project titles are provided below for previous awardees. Of these awardees, 6 are currently pursuing (or have completed) MS degrees and 2 are enrolled in PhD programs. One project resulted in a peer-reviewed publication with awardee (V. Musumeci) as first author.

Rutgers University

- Jamie Caridad (2008)** *Larval herring identification and patterns of abundance^A*
- Victoria Musumeci (2009)** *Predator prey interactions in two eel species*
- Matthew Taynor (2010)** *Video and underwater monitoring of fish trap use patterns*
- Vincent Cannici (2011)** *Spatial variation of fish larvae in the Mullica River–Great Bay Estuary^A*
- Dana Christensen (2012)** *Linkages between climate and population increases in the green goby*
- Maria Berezin (2013)** *Anthropogenic effects to fish habitat in Barnegat Bay*
- Heather Konell (2014)** *Comparative *Fundulus majalis* life history in southern NJ and NY harbor*
- Sage Mitchell (2015)** *Shallow water fish assemblages in the Great Bay-Mullica River Estuary*
- Thomas Johnson (2016)** *Coastal Inventory flatfish gear comparisons^{A,F}*
- Christina Welsh (2017)** *Mullica River-Great Bay Estuary peat reef mapping*



Stockton University

- Linda Dotts (2011)** *Retrospective harbor seal diet analysis using fish ear bones^B*
- Theresa Venello (2012)** *Harbor seal abundance and prey-type analysis during 2010-11 season*
- Maureen Duffy (2013)** *Ghost fishing gear in the Mullica River-Great Bay Estuary*
- Emily Burnite (2014)** *Ghost fishing gear / Oyster spat monitoring^C*
- Morgan Pedrick (2015)** *Oyster spat monitoring^D / Seagrass ecosystem monitoring^E*
- Sean Crowley (2016)** *Oyster spat monitoring^F*
- Angelica Anglero (2017)** *Mullica River-Great Bay estuarine and coastal oceanography*



Stacy Moore Hagan Memorial Undergraduate Estuarine Science Internship Program

(Rutgers University Marine Field Station)

\$2,500 scholarship award + expenses covering attendance at the 2018 American Fisheries Society Meeting in Atlantic City, NJ (August 19-22, 2018)

This program honors the memory of Stacy Moore Hagan, a former Richard Stockton College of New Jersey undergraduate, whose career in marine science was initiated by a cooperative internship offered through Stockton's School of Natural Sciences and Mathematics (NAMS) and conducted at the Rutgers University Marine Field Station (RUMFS) in 1990. At RUMFS, Stacy quickly distinguished herself through a hardworking, focused approach to any task, including field work ranging from ocean cruises to the muck and mire of buggy salt marshes. During her career, she mastered numerous field approaches and always led the way despite unfavorable weather conditions, often at night and in remote locations. From this initial technician position, she progressed towards a Masters Degree in Ecology and Evolution at Rutgers on pelagic estuarine fishes while serving as a mentor to numerous individuals including summer interns, technicians, and volunteers ranging from high school students to retirees. Over her shortened career, she was senior author or co-author on 17 peer-reviewed publications, 20+ presentations, and three technical reports focused primarily on the first year in the life of estuarine fishes and their responses to marsh restoration.

So that other hard working Stockton students can follow in Stacy's footsteps, two \$2,500 awards will be provided to support two Stockton undergraduates for an intensive, 2-credit winter-spring internship program centered on long-term fisheries sampling (Dr. Ken Able) and New Jersey's fishing and aquaculture industries (Dr. Douglas Zemeckis) at the **Rutgers University Marine Field Station** in Tuckerton. Successful applicants will develop research ideas towards the close of the fall 2017 semester with a mentor, and subsequently complete an internship at RUMFS (winter-spring 2018) where they will have the opportunity to work with other undergraduates, graduate students, post-doctoral associates, and affiliated Stockton and Rutgers research faculty. Scholars will share their experiences with the community in the form of presentations (oral or poster) at the 2018 American Fisheries Society meeting in Atlantic City (expenses covered, August 19-22, 2018). The overall goal of this Program is to provide a high quality research experience for students interested in pursuing graduate studies or entry-level technician jobs in the field of Marine Science.

Eligibility

- Stockton undergraduate sophomore, junior, or senior in good standing
- Minimum overall GPA of 2.5
- Completion of the following MARS courses (or equivalents)
 - MARS 2201: Introduction to Marine Biology
 - MARS 2202: Introduction to Oceanography

Application

Submit all required information (research statement, Stockton unofficial transcript, CV, contact information for two references) as one document electronically to: Mark.Sullivan@stockton.edu

Selection Process

Selection will be made using the following criteria:

-Personal research statement: Please describe your background, research interests, and how this internship will further your career goals.

-Stockton undergraduate transcript (unofficial version acceptable)

-CV (include contact information: mailing address, phone number, e-mail address)

-Potential follow-up with 2 reference contacts listed by applicant (do not submit written reference letters)

-Selection Committee: representatives from Stockton's Marine Science Program and the Rutgers University Marine Field Station

Timeline

October 25, 2017	Applications due
Week of October 30, 2017.....	Applicants notified
November, 2017.....	Registration for 0 credits, Fall 2017, sub-term B
Winter break.....	Must be available for periodic work with mentor
January, 2018.....	Registration for 2 credits, Spring 2018, full-term
March 15, 2018.....	AFS abstract deadline
August 19-22, 2018.....	Presentation at 2018 AFS Meeting (Atlantic City)

Evaluation and reporting

Scholars will share their experiences with the community in the form of an oral or poster presentation at the 2018 American Fisheries Society meeting in Atlantic City, NJ (expenses covered, Aug 19-22, 2018). In addition, scholars will maintain an on-line e-Portfolio of their experiences and submit a written report of their activities.



Stacy Moore Hagan Memorial Undergraduate Estuarine Science Internship Program

(Stockton Nacote Creek Marine Field Station site)

\$2,500 scholarship award + expenses covering attendance at the 2018 American Fisheries Society Meeting in Atlantic City, NJ (August 19-22, 2018)

This program honors the memory of Stacy Moore Hagan, a former Richard Stockton College of New Jersey undergraduate, whose career in Marine Science was initiated by a cooperative internship offered through Stockton's School of Natural Sciences and Mathematics (NAMS) and conducted at the Rutgers University Marine Field Station (RUMFS) in 1990. At RUMFS, Stacy quickly distinguished herself through a hardworking, focused approach to any task, including field work ranging from ocean cruises to the muck and mire of buggy salt marshes. During her career, she mastered numerous field approaches and always led the way despite unfavorable weather conditions, often at night and in remote locations. From this initial technician position, she progressed towards a Masters Degree in Ecology and Evolution at Rutgers on pelagic estuarine fishes while serving as a mentor to numerous individuals including summer interns, technicians, and volunteers ranging from high school students to retirees. Over her shortened career, she was senior author or co-author on 17 peer-reviewed publications, 20+ presentations, and three technical reports focused primarily on the first year in the life of estuarine fishes and their responses to marsh restoration.

So that other hard working Stockton students can follow in Stacy's footsteps, two \$2,500 awards will be provided to support two Stockton undergraduates for 2-credit winter-spring independent studies centered on fisheries-related research originating at the **Stockton Nacote Creek Marine Field Station**. Successful applicants will develop research ideas before the close of the fall 2017 semester with a mentor, and subsequently complete winter-spring research at the Field Station where they will have the opportunity to work with other undergraduates and affiliated Stockton research faculty. Scholars will share their experiences with the community in the form of presentations (oral or poster) at the 2018 American Fisheries Society meeting in Atlantic City (expenses covered, August 19-22, 2018). The overall goal of this Program is to provide a high quality research experience for students interested in pursuing graduate studies or entry level technician jobs in the field of Marine Science.

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