

Justin Bopp

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Publons: <https://publons.com/researcher/3704427/justin-bopp/>

EDUCATION

- 2021** **Ph.D. in Marine Science, in progress**
School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, NY, USA
- 2015** **B.S. in Zoology with Honors**
Michigan State University, East Lansing, MI, USA

APPOINTMENTS

- 2021-present** **Postdoctoral Research Associate**
Michigan State University, East Lansing, MI
- 2016 - 2021** **Graduate Research Assistant/Teaching Assistant**
Stony Brook University, Stony Brook, NY, USA
- 2015 - 2016** **Fisheries technician**
Illinois Natural History Survey, Lake Michigan Biological Station, University of Illinois, Urbana-Champaign, IL, USA
- 2013 - 2015** **Undergraduate research assistant**
Michigan State University, East Lansing, MI

PUBLICATIONS

PUBLISHED MANUSCRIPTS (†= primary; *=co-primary)

Kwan, K.Y., **J.J. Bopp**[†], S. Huang, Q. Chen, C. Wang, Y. Liao, X. Wang, X. Huang. 2020. Trophic dynamics and resource use of endangered horseshoe crab (*Tachypleus tridentatus*) populations among diversified nursery habitats in northern Beibu Gulf, China. *Integrative Zoology*. <https://doi.org/10.1111/1749-4877.12495>

Bopp, J. J.⁺, M. Sclafani, D.R., Smith, K.A. McKown, R.M. Cerrato. 2019. Geographic-specific mark-recapture models reveal contrasting migration and survival of adult horseshoe crabs (*Limulus polyphemus*). *Estuaries and Coasts*, 42(6):1570-1585.

Bopp, J.J., M. Sclafani, M.G. Frisk, K.A. McKown, C.M. Zeigler-Fede, D.R. Smith, R.M. Cerrato. Quantifying seasonal space-use and migration timing of American horseshoe crabs (*Limulus polyphemus*) across demographics. *Ecosphere*. Accepted.

IN REVIEW

Sclafani, M., **J.J. Bopp**, J. Havelin, C. Humphrey, S.W.T Hughes, S. Tettelbach. Predation on planted and wild bay scallops (*Argopecten irradians irradians*) by Busyconine whelk: studies of behavior incorporating acoustic telemetry.

IN PREP

Bopp, J.J., D. R. Smith, J. Newhard, M. Sclafani, K. A. McKown, R. M. Cerrato. Multi-scale recapture modelling reveals geographic variability in survival and connectivity in American horseshoe crabs (*Limulus polyphemus*) in the United States. (In prep).

Bopp, J.J., J.A. Olin, M. Sclafani, B. Peterson, R.M. Cerrato. Contrasting trophic niche and resource-use dynamics across multiple American horseshoe crab (*Limulus polyphemus*) populations and age groups. (In prep).

Brianik, C., **J.J. Bopp**^t, C. Piechocki, N. Liang, S. O'Reilly, R.M. Cerrato, B. Allam. Infection intensity, prevalence, and tissue damage of the parasitic flatworm, *Bdelloura candida*, in the American horseshoe crab (*Limulus polyphemus*). (In prep).

BOOK ARTICLES

Laing, I., **J. Bopp**. 2018. Oysters-Shellfish Farming. In A. Scott, D. Alderton, V. Bliznak, , J. Cochran, D. Dellasala, F. Funiciello, M. Goldstein, D. Grocke, K. Lajtha, S. Marshall, P. Mineau., E. Wohl, and E. Yang (eds.) *Encyclopedia of Ocean Sciences*. New York, NY. Elsevier. 3:1-12

Penn, J., N. Caputi, R. Melville-Smith, **J. Bopp**. 2018. Crustacean fisheries. In A. Scott, D. Alderton, V. Bliznak, , J. Cochran, D. Dellasala, F. Funiciello, M. Goldstein, D. Grocke, K. Lajtha, S. Marshall, P. Mineau., E. Wohl, and E. Yang (eds.) *Encyclopedia of Ocean Sciences*. New York, NY. Elsevier. 3: 699-708.

AWARDS

2020 Professional Development Graduate Student Union travel award, *Stony Brook University* (\$1000)

2019 Best oral student presentation award. The 4th international workshop on the science and conservation of horseshoe crabs.

2019 Student travel award, IUCN-SSC Horseshoe Crab Specialist Group (\$1000)

2019 Maze-Landreau student travel award, *Stony Brook University* (\$700)

2018 Jerry R. Schubel graduate fellowship, *Stony Brook University* (\$3000)

2014 National Society of Collegiate Scholars high school tutor award, *NSCS* (\$100)

2014 Stiles-Butcher award, *Michigan State University* (\$550)

SEMINARS AND CONFERENCE PRESENTATIONS

Sclafani M, Ziegler-Fede C, Bopp J. 2021. Horseshoe Crab Monitoring Program. Community Science Long Island Webinar Series (Oral- virtual).

Bopp J, Olin J, Sclafani M, Cerrato R. 2021. Stable Isotopes Reveal Contrasting Trophodynamics across American Horseshoe Crab Age Groups. Northeastern Natural History Conference. (Oral-Virtual).

Piechocki C, Brianik C, Bopp J, Liang N, O'Reilly S, Cerrato R, Allam B. 2021. Insufferable bookworms and their crabby victims: Quantifying the infection intensity of flatworms on horseshoe crab book gills. Society of Integrative and Comparative Biology Annual Meeting (Poster-virtual).

Bopp J, Sclafani M, Frisk M, Smith D, McKown K, Cerrato R. 2019. Acoustic telemetry reveals contrasting habitat connectivity across several life history stages of American horseshoe crabs in coastal New York, USA. The 4th international workshop on the science and conservation of horseshoe crabs. Qinzhou, Guangxi, China (Oral).

Bopp J, Sclafani M, Frisk M, Smith D, McKown K, Cerrato R. 2018. Passive Tracking Reveals Seasonal Horseshoe Crab (*Limulus polyphemus*) Distributions across Multiple Age Demographics in Moriches Bay, NY. American Fisheries Society 148th meeting in Atlantic City, New Jersey (Oral).

Bopp J, Sclafani M, Smith D, McKown K, Sysak R, Cerrato R. 2017. Contrasting survival and population exchange estimates of America horseshoe crabs (*Limulus polyphemus*) in New York. Coastal and Estuarine Research Federation 24th biennial conference in Providence, Rhode Island (Oral).

Invited talks

Bopp, J. 2019. Chasing the dynamics of blue bloods: assessing habitat connectivity and survival patterns of American horseshoe crabs. Dauphin Island Sea Lab Seminar Series, University of South Alabama, Mobile, AL.

TEACHING EXPERIENCE

2018 **Teaching practicum lecturer (3)**, “Long Island Marine Habitats”, School of Marine and Atmospheric Science, Stony Brook University

2016 - 2017 **Teaching assistant in Inorganic Chemistry lab I & II**, Department of Chemistry, Stony Brook University

MENTORSHIP

- 2021** Nancy Liang, B.S. Honors student, Stony Brook University
Honor's thesis: Changes in the heart rate of the American horseshoe crab (*Limulus polyphemus*)
- 2019 -2020** Camilla Piechocki, Nancy Liang, and Sabrina O'Reilly, B.S. students, Stony Brook University
Project: Infection intensity and prevalence of the horseshoe crab flatworm, *Bdelloura candida*, in adult and juvenile American horseshoe crabs.
- 2018** Jeffrey Kraemer, B.S. student, Stony Brook University
Project: Gut content analysis of juvenile American horseshoe crabs

INSTITUTIONAL SERVICE

- 2019** Faculty Search Committee
School of Marine and Atmospheric Sciences, Stony Brook University
- 2017 - 2018** Graduate Student Representative
Graduate student club, School of Marine and Atmospheric Sciences, Stony Brook University

OUTREACH

- 2021** Webinar presenter, New York Sea Grant, Stony Brook, NY.
- 2021** Webinar presenter, Marine Environmental Education Center, Hollywood, FL
- 2019** Science field lead, benthic invertebrate sampling high school students, New York Harbor High School, New York, NY.
- 2019** Science volunteer, STEAM night, North Country Road Middle School, Miller Place, NY.
- 2017 - 2019** Presenter, NY Horseshoe Crab Monitoring program public coordinator meeting
- 2017** Presenter, Meet an Oceanographer, Long Island Aquarium, Riverhead, NY
- 2017** Exhibition volunteer, SUBMERGE marine science festival, New York City, NY
- 2017 – 2018** Volunteer, NOSB Bay Scallop Bowl, Stony Brook University, Stony Brook, NY
- 2016** Educator volunteer, BioBlitz, Elgin High School, Elgin, IL.

RELEVANT COURSEWORK

Physical oceanography, Biological oceanography, Marine biogeochemistry, GIS: Display and Analysis of Environmental Data, Biometry, Statistics with R; Topics in Marine Science: Spatial Ecological Statistics, Modern Ecological Statistics: Bayesian techniques, Quantitative Fisheries Ecology

PROFESSIONAL MEMBERSHIP AND SERVICE

Society Memberships American Fisheries Society, Coastal Estuarine and Research Federation

Scientific Peer Review *Journal of African Marine Science, Journal of Fish Biology, Canadian Journal of Zoology, Estuaries and Coasts*

ADDITIONAL ACTIVITIES

2020 - Member, Long Island Horseshoe Crab work group

2020 - Member, International Union for the Conservation of Nature Horseshoe Crab Species Specialist Group

RELEVANT SKILLS AND CERTIFICATIONS

Intermediate ArcGIS, Vortex (population analysis)

Advanced R, Microsoft Office, program MARK

Certifications SCUBA open water (SSI)

