

**Kali T. McKee**

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## **Education**

2005 - 2009 Barnard College, Columbia University, New York, NY

*Bachelor of Arts, Biology*

## **Employment**

2023 – Present. Aquatox Research Inc., Syracuse, NY.

*Client Scheduling, Technician*

2012 - 2023. Lamont-Doherty Earth Observatory, Palisades, NY.

*Senior Research Staff Assistant*

Investigated the impacts of climate change on the Arabian Sea ecosystem, especially with respect to recent outbreaks of *Noctiluca* blooms, monitored the water quality of Long Island Sound, studied the distribution of microplastics in the Hudson River and New York metropolitan area, and participated in bio-optical and remote sensing studies of the planktonic ecosystem in the Amazon River plume. Served as the lab manager and designated responsibilities for interns and other research support staff. Mentored high school, undergraduate, and graduate students. Conducted ocean acidification and other experiments with green *Noctiluca* and several species of diatoms, dinoflagellates, and other phytoplankton groups.

2009 - 2012. Lamont-Doherty Earth Observatory, Palisades, NY.

*Laboratory Assistant*

Processed water, particulate, and biological samples from research cruises in the Bering Sea and other ecosystems. Cleaned glassware and maintained laboratory, promoting productive work environment. Prepared reagents and analyzed nutrient samples using autoanalyzer and colorimetric methods. Maintained phytoplankton cultures and ran culture experiments

with various iron and light treatments. Worked with various databases and remote sensing.

2007 - 2009. Lamont-Doherty Earth Observatory, Palisades, NY.

*Casual*

Performed field work in Hudson River Estuary and Bering Sea, including month long cruises aboard research vessels. Analyzed and organized data, making use of various computer software, including ArcGIS.

2007 - 2009. Barnard College, New York, NY.

*Teaching Assistant*

Assisted students during lab time, facilitating productive learning environment. Graded coursework and prepared demonstrations and dissections. Ran weekly help sessions for biology and lab related questions. Supervised administration of examinations.

2007. Lamont-Doherty Earth Observatory, Palisades, NY.

*Intern*

Initiated research on bacterial dynamics associated with Sparkill Creek and Piermont Marsh. Collected samples along Hudson River Estuary and tributaries in conjunction with Riverkeeper. Performed cell counts and aided in analysis of years of data. Helped devise strategies for managing health of ecosystem.

**Relevant Work/Field Experience**

2018 - 2023 – Various cruises in Long Island Sound in conjunction with Connecticut Department of Energy and Environmental Protection

Summer 2007 and Summer 2020 – Various cruises along Hudson River Estuary in conjunction with Riverkeeper

July 13-28 2012 – Amazon iNfluence on the Atlantic: CarbOn export from Nitrogen fixation by DiAtom Symbioses (ANACONDAS), R/V Atlantis AT21-04

April 26-May 9 2012 – EcoFOCI Spring Mooring Cruise, NOAA Ship Oscar Dyson

June 16-July 14 2010 – Bering Ecosystem Study / Bering Sea Integrated Ecosystem Research Program, R/V Thomas G. Thompson TN250

June 14-July 13 2009 – Bering Ecosystem Study / Bering Sea Integrated Ecosystem Research Program, R/V Knorr KN195-10

July 3-31 2008 – Bering Ecosystem Study / Bering Sea Integrated Ecosystem Research Program, USCGC Healy HLY0803

## Publications

Gomes, H. D. R., **McKee, K.**, Mile, A., Thandapu, S., Al-Hashmi, K., Jiang, X., & Goes, J. I. (2019). Corrigendum: Influence of Light Availability and Prey Type on the Growth and Photo-Physiological Rates of the Mixotroph *Noctiluca scintillans*. *Frontiers in Marine Science*, *6*, 342.

Bausch, A. R., Boatta, F., Morton, P. L., **McKee, K. T.**, Anderson, R. F., Gomes, H. R., & Goes, J. I. (2017). Elevated toxic effect of sediments on growth of the harmful dinoflagellate *Cochlodinium polykrikoides* under high CO<sub>2</sub>. *Aquatic Microbial Ecology*, *80*(2), 139-152.

Sambrotto, R. N., Burdloff, D., & **McKee, K.** (2016). Spatial and year-to-year patterns in new and primary productivity in sea ice melt regions of the eastern Bering Sea. *Deep Sea Research Part II: Topical Studies in Oceanography*, *134*, 86-99.

Jenkins, C. A., Goes, J. I., **McKee, K.**, Gomes, H. D. R., Arnone, R., Wang, M., ... & Dadhwal, V. K. (2016, May). High-resolution shipboard measurements of phytoplankton: a way forward for enhancing the utility of satellite SST and chlorophyll for mapping microscale features and frontal zones in coastal waters. In *Remote Sensing of the Oceans and Inland Waters: Techniques, Applications, and Challenges* (Vol. 9878, pp. 137-146). SPIE.

Stauffer, B. A., Goes, J. I., **McKee, K. T.**, do Rosario Gomes, H., & Stabeno, P. J. (2014). Comparison of spring-time phytoplankton community composition in two cold years from the western Gulf of Alaska into the southeastern Bering Sea. *Deep Sea Research Part II: Topical Studies in Oceanography*, *109*, 57-70.

Goes, J. I., do Rosario Gomes, H., Haugen, E. M., **McKee, K. T.**, D'Sa, E. J., Chekalyuk, A. M., ... & Sambrotto, R. N. (2014). Fluorescence, pigment and microscopic characterization of Bering Sea phytoplankton community structure and photosynthetic competency in the presence of a Cold Pool during summer. *Deep Sea Research Part II: Topical Studies in Oceanography*, 109, 84-99.

