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Education

2002 Ph.D. Biogeochemistry, Hamburg University, Germany
1998 M.S. Environmental Science, Ocean University of China (Qingdao), China
1992 B.S. Marine Chemistry, Ocean University of China (Qingdao), China

Work Experience

2017 – Research Assistant Professor, Department of Environmental Science and Policy, George Mason University.
2006 – 2016 Research Scientist, Patrick Center for Environmental Research, the Academy of Natural Sciences of Drexel University
2003 – 2006 Postdoctoral Research Associate, Louisiana Universities Marine Consortium.
2004 Instructor, Research in Marine Science, Louisiana Universities Marine Consortium, internships for Nicholls State University undergraduate, 3 credit hours.
2002-2003 Lecturer, Department of Chemistry and Chemical Engineering, Ocean University of China (Qingdao).

Projects and Awards

2019-2020 Daniel Tong (PI), Ali Andalibi, Barney Bishop, Ling Ren, Patrick Gillevet, Scott Van Pelt, Thomas Gill: Detecting Cocci Fungus: Preparing the Nation for Valley Fever Outbreaks. Seed Funding from the Institute for a Sustainable Earth, George Mason University
2019-2020 Daniel Tong (PI) and Ling Ren: Towards Optimal Configurations of NAQFC Chemistry and Aerosol Representations. National Oceanic and Atmospheric Administration (NOAA).
2018-2021 Ling Ren (PI) and Patrick Gillevet: Characterization of Phytoplankton Community Changes in Barnegat Bay Related to the Closure of Oyster Creek Nuclear Generating Station, Combining Next Generation Sequencing and Microscopic Analyses. Funded by New Jersey Department of Environmental Protection (NJDEP).
2016-2017 Ling Ren (PI): Developing and Refining Phytoplankton Index of Biotic Integrity (P-IBI) for Barnegat Bay-Little Egg Harbor Estuary, NJ. Funded by New Jersey Department of Environmental Protection (NJDEP).
2012-2016 Ling Ren (PI): Baseline characterization of phytoplankton and harmful algal blooms and phytoplankton index of biotic integrity, Barnegat Bay-Little Egg Harbor, NJ. Funded by New Jersey Department of Environmental Protection (NJDEP).
2013-2015 Don Charles and Ling Ren (co-PI): Periphyton analysis for Virginia's rivers and streams statewide algal assessment, funded by Virginia DEP.

- 2013 V. Monica Bricelj (PI), Ling Ren (co-PI) and John Kraeuter: Characterization of phytoplankton functional taxonomic groups in relation to juvenile hard clam production in the Barnegat Bay-Little Egg Harbor (BB-LEH), funded by Barnegat Bay Partnership (BBP).
- 2010-2011 Changwen Wu (PI) and Ling Ren (co-PI): 'Biodiversity in Coastal East China Sea: Temporal and Spatial Changes of Phytoplankton and Impacts of Human Activities', in collaboration with Zhejiang Ocean University, funded by Chinese Ministry of Science and Technology.

Manuscripts in Preparation

Ren L., Nancy N. Rabalais, R. Eugene Turner. Effects of Mississippi River Water on Phytoplankton Growth in Upper Barataria Estuary, Louisiana. *Hydrobiologia*. (Submitted)

Ren, L., T. Belton, M. Enache, B. Hazen, and G. Buchanan. Temporal and spatial variation in the phytoplankton community and relationships with environmental conditions in Barnegat Bay-Little Egg Harbor, New Jersey. *Journal of Plankton Research*.

Ren, L., J. Bilinski, R. Schuster, M. Enache, and G. Burchanan. Refinement of phytoplankton index of biotic integrity for water quality assessment in Barnegat Bay-Little Egg Harbor, New Jersey.

Publications and Reports

Ren, L, T. Belton, R. Schuster, and M. Enache, 2017. Phytoplankton index of biotic integrity and reference communities for Barnegat Bay-Little Egg Harbor Estuary, New Jersey. *Journal of Coastal Research*, SI 78: 89-105.

Fantasia, R.L., V. M. Bricelj, and L. Ren, 2017. Phytoplankton community structure based on photopigment markers in a mid-Atlantic U.S. coastal lagoon: significance for hard clam production. *Journal of Coastal Research*, SI 78: 106-126.

Ren, L and T. Belton, 2015. Barnegat Bay Phytoplankton Year-Three: Phytoplankton reference communities and index of biotic integrity. The Academy of Natural Sciences of Drexel University. Technical report to New Jersey Sea Grant and New Jersey DEP. <http://nj.gov/dep/dsr/barnegat/final-reports/phytoplankton-year3.pdf>.

Ren, L. 2015. Baseline characteristics of phytoplankton and harmful algal blooms in Barnegat Bay-Little Egg Harbor estuary (Year-Two). The Academy of Natural Sciences of Drexel University. Technical report to New Jersey Sea Grant and New Jersey DEP. <http://nj.gov/dep/dsr/barnegat/final-reports/phytoplankton-year2.pdf>.

Ren, L. 2013. Baseline Characteristics of phytoplankton and harmful algal blooms in Barnegat Bay-Little Egg Harbor estuary (Year-One). The Academy of Natural Sciences of Drexel University. Technical report to New Jersey Sea Grant and New Jersey DEP. <http://nj.gov/dep/dsr/barnegat/finalreport-year1/phytoplankton-year1.pdf>.

Ren, L., N. N., Rabalais, R. E. Turner, W. Morrison and W. Mendenhall. 2009. Nutrient limitation on phytoplankton growth in Upper Barataria Basin, Louisiana: Microcosm Bioassays. *Estuaries and Coasts* 32: 958-974.

Ren, L., W., Mendenhall, N. Atilla, W. Morrison and N. N. Rabalai. 2008. Cyanobacteria in eutrophied fresh to brackish lakes in Barataria Estuary, Louisiana. In H. Kenneth Hudnell (ed.): *Cyanobacterial Harmful Algal Blooms: State of the Science and Research Needs*, Springer, 308-310.

Ren, L., M. Zhang, S. Feng and U.H. Brockmann. 2003. Pelagic nitrogen cycling in Jiaozhou Bay, a model study I: Conceptual model. (in English) Chinese Journal of Limnology and Oceanography. 21(4): 358-367.

Ren, L. 2002. Biogeochemical conversion of nitrogen in enclosed pelagic coastal ecosystems of the German Bight: mesocosm and modelling studies. Doctoral dissertation, Hamburg University, Germany. URL: <http://ediss.sub.uni-hamburg.de/volltexte/2002/775/>.

Ren, L, M. Zhang, S. Feng, U.H. Brockmann. 2000. A simple simulation of specific photosynthesis rate in Jiaozhou Bay. Chinese Journal of Limnology and Oceanography 19(1): 62-70.

Algal Taxonomy Reports

Ren, L. 2016-2017. Updates on Diatoms in the Integrated Taxonomic Information System (IT IS). <https://www.itis.gov/whatsnew.html#diatoms>; <https://www.itis.gov/whatsnew.html#chaetocerotaceae>; <https://www.itis.gov/whatsnew.html#navicular>.

Ren, L., F. Acker and D. Charles. 2009. Seventeenth USGS NAWQA workshop on harmonization of algal taxonomy. The Academy of Natural Sciences of Drexel University. Report No. 07-09. 241pp.

Ren, L., F. Acker and D. Charles. 2009. Nineteenth USGS NAWQA workshop on harmonization of algal taxonomy: Soft-algae of the Northeast and Mid-Atlantic US. The Academy of Natural Sciences of Drexel University. Report No. 09-05. 233pp.

Presentations

Ren L., T. Belton, R. Schuster, M. Enache, 2016. Phytoplankton Reference Communities and Phytoplankton Index of Biotic Integrity for Barnegat Bay-Little Egg Harbor Estuary, New Jersey. EPA Region II, Nutrients Regional Technical Advisory Group Meeting. New York. Oral.

Ren L., T. Belton, R. Schuster, M. Enache, 2016. Phytoplankton Reference Communities and Phytoplankton Index of Biotic Integrity for Barnegat Bay-Little Egg Harbor Estuary, New Jersey. 10th National Monitoring Conference, Tampa, Florida. Oral.

Ren L., T. Belton, M. Enache, B. Hazen, D. F. Charles, G. Buchanan, 2014. Temporal and spatial variation in the phytoplankton community and relationships with environmental conditions in Barnegat Bay-Little Egg Harbor, New Jersey. Poster, AGU fall meeting, San Francisco, California. Poster.

Ren L and M. Potapova. 2009. Representatives of the Genus *Proschkinia* from Chihuahuan desert, New Mexico. North America Diatom Symposium (NADS), Michigan. Poster.

Ren L, N.N. Rabalais, R Eugene Turner, Q. Dortch, W. Morrison, W. Mendenhall, 2006. The effects of Mississippi River inputs on phytoplankton growth in Lakes in upper Barataria estuary, Louisiana. AERS, Philadelphia, Pennsylvania. Oral.

Ren L, Rabalais N N, R Eugene Turner, Dortch Q, Morrison W, Mendenhall W. 2005. Nutrient Limitation in Upper Barataria Basin, Louisiana: Microcosm Bioassays. ERF, Virginia. Oral.

Ren, L, W. Mendenhall, N. Atilla, W. Morrison, N.N. Rabalais, 2005. Cyanobacteria in eutrophied fresh to brackish lakes in Barataria estuary, Louisiana. International Symposium on Cyanobacterial Harmful Algal Blooms (ISOC-HAB), North Carolina. Poster.

Ren, L., Brockmann, U.H., Duerselen C.D., and T. Raabe, 2004. Biogeochemical Conversion of Nitrogen in Enclosed Pelagic Ecosystems of the German Bight, North Sea: Mesocosm and Modeling Studies. ASLO/TOS, Honolulu, Hawaii. Oral.