

Suzanna Clark

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EDUCATION

Massachusetts Institute of Technology,
Woods Hole Oceanographic Institution
Ph.D., Physical Oceanography 2021
Thesis: Harmful Algal Blooms in the Gulf of Maine
GPA – 4.8/5.0

University of California, Los Angeles
B.S., Environmental Science 2013
Honors - summa cum laude, Dean's Honors List
Minors –Oceanic Sciences, German

PUBLICATIONS

Clark S., K.A. Hubbard, D.J. McGillicuddy, Jr., D.K. Ralston, S. Shankar. 2021. "Investigating *Pseudo-nitzschia australis* introduction to the Gulf of Maine with observations and models." *Continental Shelf Research* **228**

Clark S., K.A. Hubbard, D.M. Anderson, D.J. McGillicuddy, Jr., D.K. Ralston, D.W. Townsend. 2019. "*Pseudo-nitzschia* bloom dynamics in the Gulf of Maine: 2012-2016." *Harmful Algae* **88**

Clark, S. "The recipe for a harmful algal bloom." *Oceanus Magazine*, November 2018. p 4.
<https://www.whoi.edu/oceanus/issues/vol-53-no-2-fall-2018/>

Carpenter J.R., L. Merckelbach, U. Callies, **S. Clark**, L. Gaslikova, B. Baschek. 2016. "Potential Impacts of Offshore Wind Farms on North Sea Stratification." *PLoS ONE* **11**(8): e0160830.

Clark S., F. Schroeder, B. Baschek. 2014. "The influence of large offshore wind farms on the North Sea and the Baltic Sea – a comprehensive literature review." Helmholtz Zentrum Geesthacht – Center for Materials and Coastal Research. Report.

SELECTED PRESENTATIONS

Clark, S. Investigating *Pseudo-nitzschia australis* introduction to the Gulf of Maine. Gulf of Maine Stakeholders Meeting. Virtual. March 16, 2021

Clark, S. *Pseudo-nitzschia* in the Gulf of Maine: A Modeling Update. Gulf of Maine Stakeholders Meeting. Virtual. March 10, 2020

Clark, S. *Pseudo-nitzschia* in the Gulf of Maine: 2012– 2016. Ocean Sciences Meeting. San Diego, CA. February 19, 2020

Clark, S. *Harmful algae in the Gulf of Maine: Toxin producing blooms and the influence of coastal dynamics on their formation.* Departmental Seminar. Woods Hole, MA. November 20, 2019

Clark, S., K.A. Hubbard, D.M. Anderson, D.J. McGillicuddy, Jr., D.K. Ralston. D.W. Townsend. *Pseudo-nitzschia* biogeography in the Gulf of Maine: 2012 – 2016. HAB Symposium (Poster). Orange Beach, AL. November 3, 2019

Clark, S. *Pseudo-nitzschia* in the Gulf of Maine: 2012 – 2016. Gulf of Maine Stakeholders Meeting. Portland, ME. March 26, 2019

Clark, S., M. Charette, B. Raubenheimer, P. Henderson, S. Elgar. *Submarine groundwater discharge on a barrier island.* Ocean Sciences Meeting (Poster). Portland, OR. February 14, 2018

Clark, S., M. Charette, B. Raubenheimer, S. Elgar, P. Henderson. *The coastal connection: Estimates of submarine groundwater discharge on a barrier island via chemical tracers and Darcy's Law.* Graduate Climate Conference (Poster). Woods Hole, MA. November 11, 2017

Clark, S. *Groundwater dynamics and submarine groundwater discharge on a barrier island.* Coastal Ocean Fluid Dynamics Lab Departmental Seminar. Woods Hole, MA. September 2, 2016

Clark, S. *The influence of large offshore wind farms on the North Sea and Baltic Sea.* Coastal Operational Systems Departmental Seminar. Geesthacht, Germany. July 1, 2015

RESEARCH EXPERIENCE

Graduate Research Assistant 2017-2021

Woods Hole Oceanographic Institution
Using oceanographic data and computer models to explain Harmful Algal Blooms in the Gulf of Maine. Documented the first appearance of toxic *Pseudo-nitzschia australis* in the region and proposed its introduction from an external source.

Graduate Fellow 2015-2017

Woods Hole Oceanographic Institution
Collected groundwater well samples and estimated submarine groundwater discharge from a barrier island to the coastal ocean via Darcy's Law and radioisotopes. Concluded that the radioisotope method was insufficient for an energetic shoreline.

Research Scientist 2014-2015

Helmholtz-Zentrum Geesthacht, Germany
Collaborated with an international team to estimate the potential effects of large offshore wind farms (OWFs) on the North Sea. Used a mathematical model to find that large-scale OWFs could disrupt stratification.

Biogeochemical Oceanography Intern 2013

University of California, Los Angeles
Collected sea water samples from Santa Monica Bay and analyzed them for chlorophyll, phytoplankton abundance, nutrients, and alkalinity.

Environmental Science Senior Practicum 2013

University of California, Los Angeles
Investigated links between water quality and amphibian abundance in the Santa Monica Mountains National Recreation Area. Shared report with the NPS to advise future policy and research.

INSTITUTIONAL SERVICE

Treasurer and Student Representative 2018-2019

MIT/WHOI Joint Program Student Representatives
Tracked spending; organized student seminars and graduate student open house; promoted improvement to departmental qualifying exams

Founding Board Member, Secretary 2016-2018

MIT's Women in Course 12 (WiXII)
Recorded meeting minutes; organized career panels, implicit bias training, and monthly diversity discussions

Executive Committee, Transportation Coordinator

Graduate Climate Conference 2017
Helped to score 200+ abstract submissions for a student-run climate conference; allotted travel grants and organized transportation for 70+ conference attendees

OUTREACH

Scientific Collaborator

Artists' League of Rhode Island 2020-Present
Science Penpal

Letters to a Pre-Scientist 2018-2019

Visiting Speaker

Falmouth Academy Women in Science and Engineering (WiSE) Jan 2020

Visiting Scientist

Marguerite E. Small Elementary Mar 2018

Volunteer

MIT Museum Girls' Day Mar 2018

Volunteer

MIT Sea Grant Blue Lobster Bowl Mar 2017

Volunteer

New England Regional Science Bowl Jan 2016

OTHER QUALIFICATIONS

International Experience

International Research Scientist 2014-2015

Helmholtz-Zentrum Geesthacht, Germany

Chaperone July 2012

German-American Partnership Program

In-House Tutor, Volunteer July 2010

One Heart Source, Arusha, Tanzania

Professional Development

Negotiation Analysis Jan 2018

MIT Sloan School of Management

Science Communication Fall 2017

WHOI Communications

Technical Skills: computer programming (MATLAB, FORTRAN, Python); ocean modeling (ROMS, LTRANS); quantitative data analysis; statistical analysis; MS Office; LaTeX

LANGUAGES

English (native)

German (proficient)

Russian (conversational)

