

# Anastasia G. Yanchilina

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## EDUCATION:

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**Ph.D., 2009-2016:** Ph.D., Columbia University, New York, NY, USA. Thesis title: The history of the last deglaciation through the lens of the Black Sea: new data and changing paradigms. Committee: Bill Ryan, Jerry McManus, Peter DeMenocal, Timothy Kenna, Liviu Giosan.

**B.S., 2009:** Atmospheric Sciences, Creighton University, Omaha, NE, USA. Thesis title: Multidecadal correlation analysis of tropical sea surface temperatures (SSTs) and precipitation indexes in West Africa. Thesis advisor: Jon Schrage.

## SELECTED RESEARCH AND PROFESSIONAL EXPERIENCE:

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**STEM Zuckerman Postdoctoral Fellow, October 2016 to present:** Weizmann Institute of Science:  $\delta^{18}\text{O}$  of biogenic opal and chert.

**Postdoctoral Scholar, April 2016 to September 2016:** Lamont-Doherty Earth Observatory, Columbia University: Preparing chapters from dissertation for publication, preparing additional specimens for stable isotope and radiocarbon analysis.

**Staff Associate, January – March 2016:** Lamont-Doherty Earth Observatory, Columbia University: Preparing dissertation for publication, U/Th dating of mollusks. Supervisor: Bill Ryan.

**Graduate Student Research Fellow, Fall 2009-2016:** Lamont-Doherty Earth Observatory, Columbia University: Deglaciation of the Black Sea; advisors: Bill Ryan and Jerry McManus.

**Significant Opportunities in Atmospheric Research and Science (SOARS) protégée, Summer 2009:** Atmospheric Chemistry Division (ACD), National Center for Atmospheric Research (NCAR): Upper atmospheric photochemistry and climate; advisor: Dan Marsh.

**REU (Research Experience for Undergraduates) fellow, Summer 2008:** Geology and Geophysics Department, Woods Hole Oceanographic Institution (WHOI):  $\text{TEX}_{86}$  and alkenone analysis of a sediment core at Bermuda Rise; advisors: Jerry McManus, Tim Eglinton, Daniel Montlucon.

## SELECTED TEACHING POSITIONS HELD:

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**New York Academy of Science Mentor, Spring 2016:** Oyster Restoration and Ecology afterschool mentorship program.

**Teaching Assistant,** Department of Earth Science, Columbia University: *Fall 2010:* Quantitative methods of data analysis; *Spring 2011:* Weapons of mass destruction; *Fall 2011:* Oceanography, *Fall 2011;* *Spring 2015:* Planet Earth.

**New York Academy of Science Teaching Fellow, Fall 2012.**

## SELECTED ACADEMIC AWARDS:

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**Honorable Mention, 2010 and 2011:** National Science Foundation Graduate Fellowship.

**American Meteorological Society Graduate Fellowship, 2009.**

**Goldwater Scholarship, 2008.**

## **INTERNATIONAL FIELD EXPERIENCE:**

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**Chief Scientist Training Cruise, Honolulu to San Diego, December 2016.**

**Black Sea Research Expedition, Black Sea, 25<sup>th</sup> June – 3<sup>rd</sup> July 2011.**

**Pacific Atmospheric Sulfur Experiment, Christmas Island (Kiritimati), 2 August - 10 September 2007.**

## **SELECTED ACADEMIC PRESENTATIONS:**

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IBIS 2017, Blanes, Spain: Silicon, Silica, & their Isotopes – *Talk*

*Yanchilina, A.G., R. Yam, A. Shemesh (2017), Tracing the diagenesis of biogenic opal through  $\delta^{18}\text{O}$  across the opal-A to opal-CT transition zone.*

Goldschmidt, Barcelona, Spain: - *Talk*

*Yanchilina, A.G., R. Yam, Y. Kolodny, A. Shemesh (2018), Tracing the evolution of biogenic opal to porcelanite and chert with  $\delta^{18}\text{O}$  in deep sea sediments.*

AGU Fall Meeting, San Francisco - *Talk*

*Yanchilina, A.G., W.B., Ryan, and J.F. McManus (2013), Elevated biological productivity as a trigger for the Holocene sapropel in the Black Sea during its reconnection with the Mediterranean.*

RCMNS Conference, Istanbul – *Talk*

*Yanchilina, A.G., W.B., Ryan, and J.F. McManus (2013), Isotopes confirm the Mediterranean derivation of the Holocene transgression across the Black Sea shelf.*

AGU Fall Meeting, San Francisco – *Poster*

*Yanchilina, A.G., W.B. Ryan, and J.F. McManus (2012), Determining the Nature of the Last Major Black Sea Transgression: Fresh or Marine?*

## **SELECTED PUBLICATIONS:**

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*Yanchilina, A.G., W.B.F. Ryan, T.C. Kenna, and J.F. McManus, 2019: Meltwater floods into the Black and Caspian Seas during Heinrich Stadial 1, Earth Science Reviews, 198.*

*Yanchilina, A.G., R. Yam, Y. Kolodny, A. Shemesh, accepted with revisions: From diatom opal-A  $\delta^{18}\text{O}$  to chert  $\delta^{18}\text{O}$  in deep sea sediments, submitted to Geochimica et Cosmochimica Acta.*

*Yanchilina, A.G., S. Yelisetti, M. Wolfson-Schwer, N. Voss, T. B. Kelly, J. Brizzolara, K. L. Brown, J.M. Zayak, M. Fung, M. Guerra, B. Coakley, R. Pockalny, 2017: Exploring Methane Gas Seepage in the California Borderlands, EOS Transactions, Project Update Column.*

*Yanchilina, A.G., W.B.F. Ryan, J.F. McManus, P. Dimitrov, D. Dimitrov, K. Slavova, M. Filipova-Marinova, 2019: Reply to comment on, "Compilation of geophysical, geochronological, and geochemical evidence indicates a rapid Mediterranean-derived submergence of the Black Sea's shelf and subsequent substantial salinification in the early Holocene," Marine Geology, 407, pp. 354-361.*

*Yanchilina, A. G., B. B. F. Ryan, J. F. McManus, P. Dimitrov, D. Dimitrov, K. Slavova, and M. Filipova-Marinova, 2017: Compilation of geophysical, geochronological, and geochemical evidence indicates a rapid Mediterranean-derived submergence of the Black Sea's shelf and subsequent substantial salinification in the early Holocene, Marine Geology, 383, pp. 14-34. The 2016 impact factor is 3.572*