Colette LaMonica Kelly

Stanford University
Department of Earth System Science
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Research Interests

Marine nitrogen biogeochemistry: field studies, isotope analysis, and vertical modeling of nitrous oxide production, consumption, and flux in the eastern tropical North Pacific Ocean.

Ocean carbon cycling: modeling and field studies of carbonate chemistry in estuarine ecosystems; carbonate chemistry and carbon dioxide flux in the open ocean.

Education

2017–present Ph.D. Candidate, Department of Earth System Science, Stanford University.

2017 B.A. Environmental Science, Dance, *Summa Cum Laude*, Barnard College of Columbia University.

Phi Beta Kappa, 2016.

Sea Education Association Oceans and Climate program, Fall 2015.

Theses: *Drivers of Seasonal and Interannual Variability of Waquoit Bay Carbonate Chemistry*.
Dancing Up the Glass Escalator: Institutional Advantages for Men In Ballet Choreography.

Research and Teaching Experience

2017–present Graduate Research Assistant, Karen Casciotti, Stanford University

2016 Summer Student Fellow, Daniel C. McCorkle, Woods Hole Oceanographic Institution

2014-2016 Undergraduate Research Fellow, Brian Mailloux, Lex Van Geen, Lamont-Doherty Earth Observatory

2015 Student Crew, Sea Education Association

2013-2014 Undergraduate Research Assistant, Peter M. Bower, Barnard College Department of Environmental Science.

2017–present Volunteer Teacher, Stanford Geokids

2017–present Volunteer Teacher, Stanford Splash

2014-2016 Teaching Assistant, Barnard College

Introduction to Environmental Science, Energy Resources

Publications

1. Haque, E., B.J. Mailloux, D. De Wolff, S. Gilioli, **C. L. Kelly**, E. Ahmed, C. Small, K. M. Ahmed, A. Van Geen, & B. Bostick (2018). Quantitative drinking water arsenic concentrations in field environments using mobile phone photometry of field kits. *Science of the Total Environment.*
2. **Kelly, C.L.** (2017). Dancing up the glass escalator: Institutional advantages for men in ballet choreography. *Columbia Undergraduate Research Journal* 2:1. Doi: 10.7916/D8R78MJX

Conference Presentations

2018 Kelly, C. L., B. X. Chang, C. Buchwald, M. S. Forbes, A. R. Babbin, & K. L. Casciotti. Using Isotopomer Analysis to Determine Drivers of Nitrous Oxide Cycling in the Eastern Tropical North Pacific Ocean. *Ocean Sciences Meeting, Portland, OR, 2018.*

2017 Kelly, C. L. & McCorkle, D. C. Drivers of Seasonal and Interannual Variability in Waquoit Bay Carbonate Chemistry. *ASLO Aquatic Sciences Meeting, Honolulu, 2017.*

Honors and Awards

2018 NSF GRFP Awardee, National Science Foundation, 2018.

2017 Enhancing Diversity in Graduate Education (EDGE) fellow, Stanford University.

2017 Henry Sharp Prize for Outstanding Senior in Environmental Science, Barnard College.

2016 Phi Beta Kappa, Barnard College.

2016 Inaugural recipient, Jenna Bass Scholarship Fund, Barnard College.

2013-2017 Dean's List, Barnard College.

Skills

Programming

Python, Matlab, Fortran

Methods

Barnard Classes: Calculus (I&III), General Chemistry, Organic Chemistry, Biology (2 semesters), Climate Systems, Python for Environmental Science

SEA Classes: Oceanographic Research Methods, Nautical Science

Stanford Classes: Intro to Statistical Methods (stats 160)