

Kaydren Orcutt

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EDUCATION

University of California, Berkeley

Ph.D. in Chemistry

Professor Graham R. Fleming, Advisor

expected 2022

Mercer University, Macon, GA

B.S. in Chemistry (minors: Physics, Spanish), Great Books Program, Phi Beta Kappa, *summa cum laude*

2017

AWARDS AND SCHOLARSHIPS

- Berkeley Science Communication Fellow 2021
- The Sophie Oxley Clark Williams Outstanding Essay Award, Mercer University 2017
- Royal Society of Chemistry Certificate of Excellence, Mercer University 2017
- Mercer University Physical Chemistry Student Award 2017
- Amgen Scholar at University of California, Berkeley 2016
- Phi Beta Kappa, Zeta of Georgia Chapter, inaugural class 2016
- Mercer University Analytical Chemistry Student Award 2016
- Barry M. Goldwater Scholar 2015
- 1st Place Analytical Chemistry Poster Presentation at the Southeastern Regional Meeting of the ACS 2014
- Mercer University General Chemistry Student Award, General Physics Student Award 2014
- Stamps Scholar 2013
- Mercer University Presidential Scholar 2013

PUBLICATIONS

Orcutt, K. B. (2021). "Cross-campus collaboration: Meet CTAF/HTSF core facility director Mary West." *QB3 Berkeley*, 10 March 2021, <https://qb3.berkeley.edu/news/cross-campus-collaboration-an-interview-with-ctaf-htsf-core-facility-director-mary-west/>

Orcutt, K. B. (2020). "It's not easy being green: The role of green light in light harvesting complexes in plants." *QB3 Berkeley*, 1 December 2020, <https://qb3.berkeley.edu/news/its-not-easy-being-green/>

Orcutt, K. B. (2020) "It's not easy being green: Investigation of states involved with green light absorption in green plants and algae." *Device & Materials Engineering, a community from Nature Research*, 29 November 2020, https://devicematerialscommunity.nature.com/posts/it-s-not-easy-being-green-investigation-of-states-involved-with-green-light-absorption-in-green-plants-and-algae?badge_id=298-nature-communications

Orcutt, K. B. (2020). "Why you should stay single: the scientific benefits of using a single photon." *QB3 Berkeley*, 8 October 2020, <https://qb3.berkeley.edu/why-you-should-stay-single-the-scientific-benefits-of-using-a-single-photon/> and <https://chemistry.berkeley.edu/news/why-you-should-stay-single-scientific-benefits-using-single-photon>

NATIONAL AND LOCAL MEETING CONTRIBUTIONS

Presenting author(s) underlined.

Oral Presentations

Orcutt, K. B.; Graham Fleming Quantum light: Entangled photons as a single photon source for study of photosynthetic systems. *Graduate Research Conference at UC Berkeley*, October 2018.

Orcutt, K. B.; Ward, J. E.; Kloepper, J. W.; Crawford, G. L.; Kloepper, K. D. Investigation of a Biosurfactant-Producer: Part 1. *Mercer University BEAR Day Poster Symposium*, April 2017.

Poster Presentations

Orcutt, K. B.; Ward, J. E.; Kloepper, J. W.; Crawford, G. L.; Kloepper, K. D. Characterization of Biosurfactants Produced by a Strain of *Bacillus*. *National Conferences on Undergraduate Research*, Asheville, NC, April 2016.

Orcutt, K. B.; Kloepper, K. D. Characterization and Identification of Biosurfactants for Oil Remediation. *Pittcon*, Atlanta, GA, March 2016.

Orcutt, K. B.; Kloepper, K. D. Production, Isolation, and Analytical Investigation of a Novel Biosurfactant for Oil Remediation. *Stamps Scholars National Convention*, Atlanta, GA, April 2015.

Orcutt, K. B.; King, A. P.; Ward, J.E.; Kloepper, J. W.; Crawford, G. L.; Kloepper, K. D. Analytical investigation of a new biosurfactant. *Southeastern Regional Meeting of the American Chemical Society*, Nashville, TN, October 2014. **1st place best poster.**

RESEARCH EXPERIENCE

Doctoral Researcher with Dr. Graham R. Fleming 2017-present
Department of Chemistry, University of California, Berkeley

Undergraduate Researcher with Dr. Kathryn Kloepper 2014-2017
Department of Chemistry, Mercer University, Macon, GA

Amgen Scholar with Dr. Kristie Boering 2016
Department of Chemistry, University of California, Berkeley, Berkeley, CA

Intern at Hollings Marine Laboratory with Dr. Stacy Vander Pol, Kevin Huncik, and Dr. Jessica Reiner 2015
National Institute of Standards and Technology, Charleston, SC

TEACHING EXPERIENCE

Physical Chemistry Laboratory Head Graduate Student Instructor Fall 2019
Department of Chemistry, University of California, Berkeley

Physical Chemistry Laboratory Graduate Student Instructor Fall 2018
Department of Chemistry, University of California, Berkeley

General Chemistry Graduate Student Instructor Fall 2017
Department of Chemistry, University of California, Berkeley

Quantitative Analysis Laboratory Assistant Spring 2017
Department of Chemistry, Mercer University, Macon, GA

Organic Chemistry Laboratory Assistant Fall 2015, Spring 2016
Department of Chemistry, Mercer University, Macon, GA

General Physics II Supplemental Instructor Fall 2015
Academic Resource Center, Mercer University, Macon, GA

General Chemistry Laboratory Assistant Fall 2014, Spring 2015
Department of Chemistry, Mercer University, Macon, GA

DIVERSITY, EQUITY, INCLUSION, AND OUTREACH

Women in Chemistry Initiative (WICI), President 2020 - present

Volunteer at Expanding Your Horizons (EYH) Conference 2021

Organized Diversity & Inclusion Discussion for Fleming Group, wrote group diversity statement 2020

TRIO Outreach Event 2018

Women in Math & Science (WIMS), President 2015 - 2017

STEMtastic Saturday for Girls with Real IMPACT in Macon, GA 2015 - 2017

STEM workshops hosted by Mercer University Dept. of Chemistry 2013 - 2014