

Erin de Leon Sanchez

University of California, Santa Barbara
Ecology, Evolution, and Marine Biology
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EDUCATION

October 2020 – Present	University of California, Santa Barbara Ph.D. in Ecology, Evolution, and Marine Biology (EEMB) Advisor: Professor Gretchen Hofmann
2019	University of California, Davis Bachelor of Science in Biological Sciences
2017 – 2019	University of California Leadership Excellence in Advanced Degrees Program (UC LEADS)

RESEARCH EXPERIENCE

2021	UC Santa Barbara, Department of Ecology, Evolution, and Marine Biology, PI: Prof. Gretchen Hofmann Graduate Student: Effects of marine heatwaves on purple urchin larval physiology and transcriptomics
2018 – 2020	UC Davis, Department of Animal Science, PI: Prof. Anne Todgham Laboratory and Field Technician: American River Chinook Salmon Survival in Relation to Redd Water Quality: The Role of Spatial and Temporal Variability Laboratory Technician: DNA barcoding early life stages of Antarctic fishes Undergraduate Researcher: Critical windows of stress tolerance during Chinook salmon development Undergraduate Researcher: RNAseq sample preparation for California mussels
2019	UC Davis Coastal and Marine Sciences Institute, <i>Bodega Marine Laboratory</i>, Bodega Bay, CA Undergraduate Researcher: Effects of a record-breaking heatwave on mussel bed communities in northern California
2018	UC Santa Barbara Marine Science Institute, University of California, Santa Barbara, PI: Prof. Gretchen Hofmann Summer Undergraduate Researcher: Physiological and molecular assessment of thermal tolerance of <i>Lytechinus pictus</i>
2016 – 2018	UC Davis, Department of Pharmacology, PI: Profs. Donald Bers and Julie Bossuyt

Undergraduate Researcher: Interactome Analysis of CaMKII δ in Cardiac Myocytes Using a Proximity Labeling Approach

OUTREACH AND EDUCATION

January 2022	Participant: California Ocean Science Trust: DEI in Ocean Sciences Roundtable
October 2021	Invited Panelist: Virtual California Forum for Diversity in Graduate Education Invited Panelist: Pathways to Graduate School Panel UC Davis Coastal and Marine Science Institute Professional Development Course
February 2021	Invited Presentation: EEMB 92: FUERTE class
November 2020	Invited Panelist: Graduate School in Marine Science Panel UC Davis Coastal and Marine Science Institute Professional Development Course
October 2020 – Present	FUERTE Mentor: National Science Foundation funded program: Field-based Undergraduate Engagement through Research, Teaching, and Education Program (FUERTE) at UC Santa Barbara.
October 2020 – Present	UC LEADS Mentor: UC Leadership Excellence in Advanced Degrees program at UC Santa Barbara
September 2020 – Present	Science Communicator: Letters to a Pre-scientist Pen Pal
2015	Teaching Aide: San Joaquin County Office of Education, Stockton, CA

GRANTS AND AWARDS

2021	National Science Foundation Graduate Research Fellowship
2020	National Science Foundation Graduate Research Fellowship Program Honorable Mention
2020	UCSB EEMB Block Grant Fellowship
2020	UC Davis Research Rockstars Undergrad Slam People's Choice
2017 & 2018	UC Davis Undergraduate Research Center Travel Award
2018	Koret UC LEADS Research and Leadership Symposium Honorable Mention

PUBLICATIONS

Nguyen, K.H., Akiona, A.K., Chang, C.C., Chaudhary, V.B., Cheng, S.J., Johnson, S.M., Kahanamoku, S.S., Lee, A., **de Leon Sanchez, E.E.**, Segui, L.M., Tanner, R.L. (2021). Who are we? Highlighting Nuances in Asian American Experiences in Ecology and Evolutionary Biology. *Bull Ecol Soc Am* 00(00):e01939. <https://doi.org/10.1002/bes2.1939>

Del Rio, A., **de Leon Sanchez, E.**, Martin, B., Johnson, R., Fangue, N., Israel, J., and Todgham, A. American River Chinook Salmon Survival in Relation to Redd Water Quality: The Role of Spatial and Temporal Variability. (In preparation, manuscript available upon request).

PRESENTATIONS AND MEDIA

de Leon Sanchez, E.E., Devlin, M.R. DIY MHW for the Budget Scientist: An affordable system designed to simulate marine heatwaves in the laboratory. Presented at Western Society of Naturalists Annual Meeting (2021).

de Leon Sanchez, E.E. & Lee, A. Nuances of Asian American experiences in ecology and evolutionary biology. Presented at Western Society of Naturalists Annual Meeting (2021) and POSea Conference (2021).

Del Rio, A., **de Leon Sanchez, E.**, Martin, B., Johnson, R., Fangue, N., Israel, J., and Todgham, A. American River Chinook Salmon Survival in Relation to Redd Water Quality: The Role of Spatial and Temporal Variability. Presented at: American Fisheries Society Annual Meeting, virtual conference (2020).

de Leon Sanchez, E.E., Quan, J.R., Sones, J.L., Longman, E.K., Sanford, E. Effects of extreme mortality of California Mussels (*Mytilus californianus*) on mussel bed biodiversity and community structure in Bodega Bay. Presented at: Bodega Marine Lab Student Research Symposium (2019)

de Leon Sanchez, E.E., Estrada, C.E., Leach, T.S., Strader, M.E., Hofmann, G.E. Physiological and Molecular Assessment of Thermal Tolerance of *Lytechinus pictus*. Presented at:

- Western Society of Naturalists Annual Meeting (2018)
- UCSB Summer Undergraduate Research Colloquium (2018)
- Koret UC LEADS Research and Leadership Symposium (2019)
- UC Davis Undergraduate Research Conference (2019)

de Leon Sanchez, E.E., Pinna, N.N., Ferrero, M, Herren, A.W., Bossuyt, J. Interactome Analysis of CaMKII δ in Cardiac Myocytes Using a Proximity Labeling Approach. Presented at:

- UC LEADS Summer Symposium (2017)
- UC Davis Undergraduate Research Conference (2017)
- Annual Biomedical Research Conference for Minority Students (2017)
- Koret UC LEADS Research and Leadership Symposium (2018).

de Leon Sanchez, E.E., Quan, J.R. 2019, July 30. *The Great Mussel Mortality*.

- Scientific communication video made for general audiences. Posted on Facebook and YouTube.

PROFESSIONAL MEMBERSHIPS

Western Society of Naturalists