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Adjunct Assistant Professor (Research), USC Environmental Studies Program
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EDUCATION

May 2013 Ph.D. Marine Environmental Biology, University of Southern California (USC)
Dec 2005 B.S. Biological Sciences & Minor Business Administration, USC

PROFESSIONAL EXPERIENCE AND APPOINTMENTS

2020-present Senior Scientist, USC Wrigley Institute
2020-2022 Diversity, Equity and Inclusion (DEI) Manager, USC Wrigley Institute
2018-present Adjunct Assistant Professor, USC Environmental Studies Program
2018-present Co-Founder and CEO, Holdfast Aquaculture LLC
2013-2020 Undergraduate Programs Director and Associate Director of Special
Projects, USC Wrigley Institute
2016 Adjunct Lecturer, USC Environmental Studies Program
2014-2016 Adjunct Lecturer, Mt. St. Mary's University Biological Sciences
2013 Adjunct Lecturer, Contra Costa College Biological Sciences
2009-2012 Graduate Research Assistant, USC Biological Sciences
2007-2009 Graduate Teaching Assistant, USC Biological Sciences

FUNDING AND PROJECTS

1. Green-Marroquin, BL (PI), PB Byrd-Williams (Co-PI), SC DeVaney (Co-PI) and **DY Kim (Co-PI)**. 2021-2024. Collaboration with LA Valley College and Pierce College, HSI Implementation and Evaluation Project: Pathways and Career Explorations in STEM (PaCES), National Science Foundation Division of Undergraduate Education, NSF-HRD-2121999.
2. Heidelberg, JF and **DY Kim (Co-PI)**. 2019-2023. NSF REU Site: Ocean Coastal Zone Sustainability, National Science Foundation Ocean Sciences, NSF-OCE-1852220. <https://dornsife.usc.edu/wrigley/reu/>.
3. Heidelberg, JF (PI), DW Ginsburg (Co-PI), IA Navarrete (Postdoctoral Researcher) and **DY Kim (Key Research Personnel)**. 2017-2025. Collaboration with Marine BioEnergy. Disruptive supplies of affordable biomass feedstock grown in the open ocean. Department of Energy Advanced Research Projects Agency-Energy, DE-AR0000689. <https://dornsife.usc.edu/wrigley/kelpbiofuel/>.
4. **DY Kim (PI)** and Heidelberg, JF (Co-PI) and. 2017-2023. Collaboration with Mt. St. Mary's University. Broadening Geosciences Preparedness through a Cross-Campus Experiential Partnership. National Science Foundation IUSE GEOPATHS, ICER-1700871. <https://www.msmu.edu/resources-culture/iuse/>.

5. **Kim, DY (PI)**, JD Dutton (Co-PI) and L Chilton (Co-PI). 2018. Collaboration with USC Sea Grant, Food for thought: aquaponics as an interdisciplinary learning tool in the urban K-12 classroom, Union Bank. <https://dornsife.usc.edu/uscseagrant/aquaponics/>.
6. DW Ginsburg (PI) and **Kim, DY (Co-PI)**. 2017-2018. Collaboration with USC Environmental Studies, Diving into research: Engaging undergraduate science divers in macro-algal research, USC Undergraduate Research Associates Program (URAP).
7. **Kim, DY (PI)**, JD Dutton (Co-PI) and L Chilton (Co-PI). 2016-2017. Collaboration with USC Sea Grant, Food for thought: aquaponics as an interdisciplinary learning tool in the urban K-12 classroom, Boeing Foundation. <https://dornsife.usc.edu/uscseagrant/aquaponics/>.
8. Grippo, Alessandro (PI) and **DY Kim (Co-PI)**. 2016. Collaboration with Santa Monica College, Providing field-based learning opportunities for Santa Monica College geoscience majors, Center for Dark Energy Biosphere Investigations (C-DEBI) Small Education Grants.
9. **Kim, DY (PI)** and JD Dutton (co-PI). 2015. Design and construction of the USC Thornton Aquaponics Research and Education Lab at the USC Wrigley Marine Science Center, Thornton Family Foundation.
10. Kra, N*, M Enloe*, J Hernandez* and **DY Kim (advisor)**. 2015. USC community-based solar powered aquaponics learning garden, USC Green Engagement Fund.
*undergraduate students

SCIENTIFIC PUBLICATIONS *undergraduate students

1. Navarrete, IA, **DY Kim**, C Wilcox, DC Reed, DW Ginsburg, JM Dutton, J Heidelberg, Y Raut and BH Wilcox. **2021**. Effects of depth-cycling on nutrient uptake and biomass production in the giant kelp *Macrocystis pyrifera*. *Renewable and Sustainable Energy Reviews*, 141: [110747](#).
2. Caron, DA, PE Connell, RA Schaffner, A Schnetzer, JA Fuhrman, PD Countway and **DY Kim**. **2017**. Planktonic food web structure at a coastal time-series site: I. Partitioning of microbial abundances and carbon biomass. *Deep Sea Research Part I: Oceanographic Research Papers* 121: 14-29.
3. Hu, SK, Z Liu, AAY Lie, PD Countway, **DY Kim**, AC Jones, RJ Gast, SC Cary, EB Sherr, BF Sherr, and DA Caron. **2015**. Estimating protistan diversity using high-throughput sequencing. *Journal of Eukaryotic Microbiology* 62(5):688-93.
4. Chow, CET, **DY Kim**, R Sachdeva, DA Caron and JA Fuhrman. **2014**. Top-down controls on bacterial community structure: microbial network analysis of bacteria, T4-like viruses and protists. *The International Society for Microbial Ecology Journal* 8(4): 816-819.
5. Lie, Alle AY, Z Liu, SK Hu, AC Jones, **DY Kim**, PD Countway, LA Amaral-Zettler, SC Cary, EB Sherr, BF Sherr, RJ Gast, DA Caron. **2014**. Investigating microbial eukaryotic diversity from a global census: insights from a comparison of pyrotag and full-length sequences of 18S rRNA genes. *Applied and Environmental Microbiology: Environmental Microbiology* 80(14):4363-73.
6. **Kim, DY**, PD Countway, AC Jones, A Schnetzer, W Yamashita*, C Tung* and DA Caron. **2014**. Monthly, seasonal and interannual variability of microbial eukaryote assemblages at four depths in the eastern North Pacific. *The International Society for Microbial Ecology Journal* 8(3): 515-530.

7. Lie, Alle A., **DY Kim**, A Schnetzer and DA Caron. **2013**. FEATURE ARTICLE Small-scale temporal and spatial variations in protistan community composition at the San Pedro Ocean Time-series station off the coast of southern California. *Aquatic Microbial Ecology* (70): 93-110.
8. **Kim, DY**, PD Countway, W Yamashita* and DA Caron. **2012**. A combined sequence-based and fragment-based characterization of microbial eukaryote assemblages provides taxonomic context for the Terminal Restriction Fragment Length Polymorphism (T-RFLP) method. *Journal of Microbiological Methods* 91 (3): 527-536.
9. **Kim, DY**, PD Countway, RJ Gast and DA Caron. **2011**. Rapid shifts in protistan community structure and composition during bottle incubations affect estimates of total protistan species richness. *Microbial Ecology* 62 (2): 383-398.
10. Caron, DA, PD Countway, AC Jones, **DY Kim** and A Schnetzer. **2011**. Marine protistan diversity. *Annual Review of Marine Science* 4 (6): 1-27.
11. Steele, JA, PD Countway, L Xia, PD Vigil, JM Beman, **DY Kim**, CET Chow, R Sachdeva, AC Jones, MS Schwalbach, JM Rose, I Hewson, A Patel, F Sun, DA Caron and JA Fuhrman. **2011**. Marine bacterial, archaeal and protistan association networks reveal ecological linkages. *The International Society for Microbial Ecology Journal* 5 (9): 1414-1425.

OTHER PUBLICATIONS AND MEDIA *undergraduate/graduate students

1. BBC. Nov 2021. "[Is seaweed the future of flying?](https://www.bbc.com/future/article/20211119-can-flying-ever-be-carbon-neutral)" and companion article: <https://www.bbc.com/future/article/20211119-can-flying-ever-be-carbon-neutral>.
2. ABC7, David Ono. Nov 2021. Climate change special on kelp. <https://vimeo.com/648258012/50e1e82242>
3. CBS Mission Unstoppable. Dec 2021. "Can kelp be a potential source of biofuels?" <https://youtu.be/DVSBfDLouec>.
4. Kim, DY, I Navarrete and JM Dutton. Apr 2021. Move over, corn and soybeans: The next biofuel source could be giant sea kelp, *The Conversation*. <https://theconversation.com/move-over-corn-and-soybeans-the-next-biofuel-source-could-be-giant-sea-kelp-156728>.
5. ABC7 Solutions. Apr 2021. "Could the fuel for a clean energy revolution be found underwater off the coast of Catalina?" <https://abc7.com/catalina-island-kelp-as-biofuel-whats-a-biofuel-usc-wrigley-institute-for-environmental-studies/10464956/>.
6. Takahashi, D* (Writer, Director, Animator), JM Dutton (Advisor), **DY Kim (Advisor)**. Oct 2019. The Kelp Biofuel Project. <https://youtu.be/mdCpot6csl8>.
7. Omaha's Wild Kingdom. Sept 2018. "The Kelp Forest Ecosystem: Farming Fuel." <https://www.youtube.com/watch?v=coMEtHwZv7M&feature=youtu.be>.
8. Lee, A* (Director, Writer, Animator), M Landlord* (Designer, Animator), F Yeh* (Designer, Animator), A Close (Advisor) and **DY Kim (Advisor)**. 2018-2020. AquaPower Aquaponics Series. <https://vimeo.com/264356601>, <https://vimeo.com/264360405>.
9. NPR All Things Considered. Aug 2017. [Scientists hope to farm the biofuel of the future in the Pacific Ocean](#).
10. Raykova, M* (Writer, Director, Videographer), J Dutton (Advisor) and **DY Kim (Advisor)**. **2015**. [An Introduction to the San Pedro Time-series](#).

11. **Kim, DY** and KB Heidelberg. 2014. USC Wrigley Institute for Environmental Studies Research Experiences for Undergraduates (REU): Coastal Ocean Processes Program Handbook for Mentors and REUs. https://dornsife-wrigley.usc.edu/wp-content/uploads/2022/08/2022_WIES_SummerPrograms_Handbook_v1.pdf

PROFESSIONAL PRESENTATIONS *undergraduate students

1. Almada, A, H Fenney, **DY Kim**, NC Churches, L Chilton, M Madrigal, P Grifman, B Friedman, AJ Kim, V Campbell-Arva. Feb 2022. Improving equitable access to locally farmed seafood through the South Central Los Angeles Sustainable Seafood Hub. World Aquaculture Society, San Diego, CA.
2. Churches, NC, K Stromberg, P Chang, **DY Kim**, S Nuzhdin and B Friedman. Feb 2022. *Mytilus californianus* as a potential new species for aquaculture production: a proof-of-concept and established seed-to-farm pipeline in Southern California. World Aquaculture Society, San Diego, CA.
3. **Kim, DY**. Feb 2021. Professional development at the USC Wrigley Institute REU program. Oral presentation and panel, GEO REU series, Virtual.
4. **Kim, DY**. Aug 2020. Under pressure: kelp growth response to depth-cycling. Oral presentation, USC Wrigley Institute Faculty Webinar Series, Virtual. <https://www.youtube.com/watch?v=40vfCyM5fcl>.
5. Navarrete, IA, **DY Kim**, C Wilcox, DC Reed, DW Ginsburg, JM Dutton, J Heidelberg, Y Raut and BH Wilcox. Aug 2020. Effects of depth-cycling on nutrient uptake and biomass production in the giant kelp *Macrocystis pyrifera*. Oral presentation, Algae Biomass Summit, Virtual.
6. Munoz, A*, **DY Kim** and A Jones. Feb 2020. The Influence of Ciliates on the Growth of *Macrocystis pyrifera* (Giant Kelp). Oral presentation, Association for the Sciences of Limnology and Oceanography (ASLO) Ocean Sciences Meeting (OSM), San Diego, CA.
7. Jones, A, **DY Kim**, K Heidelberg, X Cheng and JM Dutton. Feb 2020. Broadening Geosciences Preparedness through a Cross-Campus Experiential Partnership. Poster presentation, ASLO OSM, San Diego, CA.
8. Villa-Ortiz, E*, **DY Kim** and A Jones. Feb 2019. Spatial differences in the bacterial microbiome associated with *Macrocystis pyrifera* across blade size and age. Poster presentation, ASLO OSM, San Juan, Puerto Rico.
9. Jones, AJ, **DY Kim**, KB Heidelberg, X Cheng and J Dutton. Dec 2018. Broadening Geosciences Preparedness through a Cross-Campus Experiential Partnership. Poster presentation, American Geophysical Union (AGU), Washington DC.
10. Castillo-Grynberg, M*, DY Kim, C Leija*, J Sohm and R Popa. Nov 2018. Growth rate and quality of *Hermetia Illucens* (Black Soldier Fly) larvae raised on dehydrated food waste. Poster presentation, Southern California Conferences for Undergraduate Research (SCCUR), Pasadena, CA.
11. Villa-Ortiz, E*, **DY Kim** and A Jones. Nov 2018. Spatial differences in the bacterial microbiome associated with *Macrocystis pyrifera* across blade size and age. Poster presentation, SCCUR, Pasadena, CA.

12. **Kim, DY**, J Dutton, D Ginsburg and KB Heidelberg. Sept 2018. The USC Wrigley Institute REU Program: collaborations that strengthen student experiences. Poster presentation, GEO REU PI Meeting, Boulder, CO.
13. Villa-Ortiz, E*, **DY Kim** and A Jones. Sept 2018. Spatial differences in the bacterial microbiome associated with *Macrocystis pyrifera* across blade size and age. Poster presentation, Society for Advancing Chicanos and Native Americans in Science (SACNAS), San Antonio, TX.
14. Machuca, C*, **DY Kim**, I Navarrete and D Ginsburg. Aug 2018. The effects of hydrostatic pressure on *Macrocystis pyrifera*: developed and growing pneumatocysts. Poster presentation, USC Undergraduate Research Symposium, Los Angeles, CA.
15. Jordan, T*, **DY Kim**, D Ginsburg, K Heidelberg and I Navarrete. Aug 2018. Growth and loss rates of juvenile *Macrocystis pyrifera* near Santa Catalina Island. Poster presentation, USC Undergraduate Research Symposium, Los Angeles, CA.
16. **Kim, DY** and KB Heidelberg. Dec 2017. Recruiting a multi-institutional and interdisciplinary team of faculty and near-peer mentors to address challenges at a field station. Poster presentation, AGU, San Francisco, CA.
17. Hernandez, J*, JW Sturges*, **DY Kim**, J Dutton and DW Ginsburg. Nov 2017. Rates of growth and responses to nutrient-cycling in the giant kelp *Macrocystis pyrifera* for cultivation in offshore waters. Poster presentation, 98th Annual Western Society of Naturalists (WSN), Pasadena, CA.
18. Caballeros, A*, **DY Kim**, JF Heidelberg and A Jones. Nov 2017. The effects of an ammonium addition on bacterial succession and the nitrification process in a newly established low complexity (no fish, no plants) aquaponics system. Oral presentation, SCCUR, Cal Poly Pomona, Pomona, CA.
19. Hayashibara, N*, L Franklin*, J Aiau*, Z Zannatul* and **DY Kim**. Oct 2017. Food for Thought Aquaponics Program for K-12 Schools, LA Food and Policy Council's Future of Food Event, Los Angeles, CA. **Awarded Top 3 showcase.**
20. **Kim, DY**. Sept 2017. Introduction to Oceanography. Invited lecture for NSF Geosciences Program, Citrus College.
21. **Kim, DY**. Aug 2017. An introduction to aquaponics. Invited guest lecture for ENST 320a Water and Soil Sustainability, USC Environmental Studies.
22. Caballeros, A*, **DY Kim**, JF Heidelberg and A Jones. Aug 2017. The effects of an ammonium addition on bacterial succession and the nitrification process in a newly established low complexity (no fish, no plants) aquaponics system. Poster presentation, USC WIES-CDEBI Undergraduate Research Symposium, Los Angeles, CA.
23. Sturges, JW*, J Hernandez*, P Hines*, S Tyler*, **DY Kim** and DW Ginsburg. Aug 2017. Using morphometric analyses to establish growth rates for transplanted *Macrocystis pyrifera*: a standard comparison for diurnal depth cycling. Poster presentation, USC WIES-CDEBI Undergraduate Research Symposium, Los Angeles, CA.
24. Hernandez, J*, JW Sturges*, DW Ginsburg, JH Heidelberg and **DY Kim**. Aug 2017. Nitrate uptake and growth of *Macrocystis pyrifera* in simulated depth-cycling conditions. Poster presentation, USC WIES-CDEBI Undergraduate Research Symposium, Los Angeles, CA.
25. Abuyen, K*, K Holohan*, M White*, **DY Kim**, A Close and JH Heidelberg. Apr 2017. Comparative study of innovative solar still modifications: a step towards water crises

- mitigation and a sustainable campus. Poster presentation, 2017 USC Undergraduate Research Symposium, Los Angeles, CA.
26. Abuyen, K*, K Holohan*, M White*, **DY Kim**, A Close and JH Heidelberg. Apr 2017. Comparative study of innovative solar still modifications: a step towards water crises mitigation and a sustainable campus. Poster presentation, The Metropolitan Water District of Southern California's Spring Green Expo: a showcase for innovative sustainability solutions, Los Angeles, CA.
 27. Hayashibara, N*, P Qian*, J Wu*, A Close, **DY Kim** and JH Heidelberg. Apr 2017. Organic waste diversion at the USC Wrigley Marine Science Center: quantification, separation and consumer consciousness. Poster presentation, USC Undergraduate Research Symposium, Los Angeles, CA.
 28. Sturges, JW*, P Hines*, S Tyler*, **DY Kim** and DW Ginsburg. Apr 2017. Growth of depth-cycled *Macrocystis pyrifera*: a novel method for biocrude production in open ocean ecosystems. Poster presentation, Southern California Academy of Sciences, Santa Monica, CA.
 29. Malabanan, A*, A Jones and **DY Kim**. Feb 2017. The USC Thornton aquaponics system: a semi-closed living ecosystem for microbial analysis. Poster presentation, ASLO OSM, Oahu, HI.
 30. **Kim, DY** and S Schroeder. Nov 2016. Introduction to ocean science research and teaching resources. C-DEBI Community College Instructor workshop.
 31. Malabanan, A*, A Jones and **DY Kim**. Nov 2016. The USC Thornton aquaponics system: a semi-closed living ecosystem for microbial analysis. Poster presentation, Southern California Conference for Undergraduate Research, Sand Diego, CA.
 32. Malabanan, A*, A Jones and **DY Kim**. Aug 2016. The USC Thornton aquaponics system: a semi-closed living ecosystem for microbial analysis. Poster presentation, USC WIES-CDEBI Undergraduate Research Symposium, Los Angeles, CA.
 33. Wang, K*, M Enloe*, M Chan*, J Hernandez* and **DY Kim**. May 2016. A comparative study of water efficiency and growth for bok choy in a raised bed and aquaponics system. Poster presentation, Southern California Academy of Sciences, Los Angeles, CA.
 34. Heidelberg, KB and **DY Kim**. May 2016. Large dataset portals and place-based education of undergraduate students: don't tell them – show them approaches. Oral presentation, Southern California Academy of Sciences, Los Angeles CA.
 35. **Kim, DY**. Oct 2015. Introduction to the USC San Pedro Ocean Time-series. Guest Lecture, USC Biology Oceanography class, Los Angeles, CA.
 36. **Kim, DY**. Oct 2015. Introduction to the USC San Pedro Ocean Time-series. Guest Lecture, Center for Dark Energy and Biosphere Investigations (C-DEBI) Community College Instructor Workshop, Los Angeles, CA.
 37. Abderrahim, M*, **DY Kim** and T Turney. Hourly to interannual *in situ* sea temperature variability at multiple coastal ocean sites around Catalina Island, CA. Aug 2015. Poster presentation, SCCUR, San Diego, CA.
 38. **Kim, DY**. May 2015. Aquaponics at the USC Wrigley Marine Science Center: a “living laboratory” to teach environmental science and sustainability. Oral presentation, 2015 Southern California Academy of Sciences, Loyola Marymount, Los Angeles, CA.

39. **Kim, DY.** May 2015. Aquaponics at the USC Wrigley Marine Science Center: a “living laboratory” to teach environmental science and sustainability. Public lecture, USC Wrigley Marine Science Center, Catalina Island, CA.
40. **Kim, DY.** Mar 2015. Introduction to time-series studies and biological oceanography. Guest Lecture, USC Environmental Studies Marine Biology class, Los Angeles, CA.
41. **Kim, DY.** Jun 2014. An Introduction to the San Pedro Ocean Time-series (SPOT) project and oceanographic research. Oral presentation and field training onboard the R/V Yellowfin, Los Angeles, CA.
42. **Kim, DY.** Jun 2013. Microbes and Climate Change. Lecture, Aquarium of the Pacific Teachers in Training program, Wrigley Marine Science Center, Catalina, CA.
43. **Kim, DY.** 2012. The USC San Pedro Ocean Time-series and Microbial Observatory. Poster presentation, International Time-Series Methods Workshop: Global Intercomparability in a Changing Ocean, St. Georges, Bermuda.
44. **Kim, DY.** 2011. Variability of protistan assemblages at 150 m of the USC Microbial Observatory. Oral presentation, USC Wrigley Institute Fellowship Symposium, USC, Los Angeles, CA.
45. **Kim, DY,** PD Countway, RJ Gast and DA Caron. 2011. Rapid shifts in protistan community structure and composition during bottle incubations affect estimates of protistan species richness. Poster presentation, Gordon Conference (Aquatic Microbiology), Tilton, NH.
46. **Kim, DY,** PD Countway, R Schaffner, J Bothelo and DA Caron. 2010. Vertical spatial and temporal dynamics of protistan taxa at the USC Microbial Observatory. Poster presentation, ASLO OSM, Portland, OR.
47. **Kim, DY,** DA Caron and HJ Jeong. 2009. Grazing impact by dinoflagellates on harmful algal bloom causing *Pseudonitzschia* species. Oral presentation, NSF EAPSI symposium, Korean Research Foundation, Seoul, South Korea.
48. **Kim, DY.** 2009. Rapid shifts in protistan community composition and structure during bottle incubations. Oral presentation, graduate student seminars, USC, Los Angeles, CA.
49. **Kim, DY.** 2008. Investigating potential impacts that varying pCO₂ concentrations can have on marine protistan assemblages using bottle incubations. Poster presentation, Wrigley fellowship symposium, WMSC, Catalina Island, CA.

SCIENTIFIC TRAINING AND FIELD EXPERIENCE

2012	Participant, International Time-series Methods Workshop: Global Inter-Comparability in a Changing Ocean, IGMETS, St. Georges, Bermuda.
2011	Participant, Microbial Genomics and Metagenomics Workshop, Joint Genome Institute, Walnut Creek, CA.
2009	Graduate Research Fellow, Seoul National University, Seoul, South Korea.
2008-2013	Researcher, Monthly research cruises to the San Pedro Channel, USC Wrigley Institute San Pedro Ocean Time-series program.
2008	Researcher, Research cruise to investigate microbial food web dynamics in the Ross Sea and Terra Nova Bay, Antarctica, R/V Palmer.
2007-2008	Researcher, Two research cruises to investigate microbial diversity at hydrothermal vent systems, Guaymas Basin and the East Pacific Rise, R/V Atlantis and DSV Alvin.

2007-2011 Graduate Summer Research Fellow, USC Wrigley Marine Science Center, Catalina Island, CA.

TEACHING & MENTORING EXPERIENCE

2017-current Research/Intern Mentor for USC Environmental Studies Program, ENST-490 (Directed Research) and ENST-492 (Environmental Internship).

2014-2017 Intro to Environmental Microbiology (1 unit), Mt. St. Mary's University Biology.

Spring 2016 Lecturer, Science Of Sustainable (SOS) Food (2 units), USC Environmental Studies Program.

2014-2016 Introduction to Microbiology Lecture and Lab (4 units), Mt. St. Mary's University Biology.

2013-present Informal experiential and project-based undergraduate programs at the USC Wrigley Institute. Program themes: Science of Sustainable Food, Introduction to Aquaponics, Sustainability on Catalina Island, Introduction to Methods in Marine Biology.

2013 Lecturer, Introduction to Microbiology Lecture and Lab (4 units), Contra Costa College Biology.

2007-2009 Graduate Student Teaching Assistant (Instructor for Labs), Introduction to Microbiology, Aquatic Microbiology and Introduction to Biology (honors), USC Biological Sciences.

SERVICE AND OTHER ACTIVITIES

1. Member, 2020-current, USC Environmental Studies Program DEI Committee.
2. American Academy of Underwater Sciences Research Diver, 2019-current.
3. Member, 2018-2019, USC Sustainability Steering Committee.
4. Panel organizer, May 2018, Southern California Academy of Sciences, Kelp Aquaculture: Research Advances and Applications, Los Angeles, CA.
5. Reviewer, NSF REU Program.
6. Research Collaborator and Volunteer, 2018-2019, California Science Center, Los Angeles, CA.
7. Advisory Board Member, 2015-2017, OurFoods (a non-profit social enterprise working on urban agriculture and aquaponics), Los Angeles, CA.
8. Environmental Committee Member, 2015-2016, Empowerment Congress for the Office of Supervisor Ridley-Thomas 2nd District, County of LA.
9. Reviewer, Environmental Microbiology and Applied and Environmental Microbiology.
10. Volunteer and Collaborator, 2011-current, Community Services Unlimited (www.csuinc.org), South Los Angeles, CA.
11. Seminar Series organizer, 2010-2011, USC Marine Biology and Biological Oceanography section, USC, Los Angeles, CA.
12. Reviewer, International Society for Microbial Ecology Journal.
13. Co-chair, 2009-2011, Koreans United for Equality (LGBTQ+ advocacy group), Los Angeles, CA.

14. Coordinator, 2007-2008, Graduate Student Social Hour, USC Marine Environmental Biology.
15. Volunteer, 2007, Aquarium of the Pacific, Long Beach, CA.
16. Education and Outreach Summer Fellow, 2007-2011, USC Wrigley Institute.

MEMBERSHIPS

1. Association for the Sciences of Limnology and Oceanography
2. Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)
3. Institute for Broadening Participation (IBP)
4. National Research Mentoring Network (NRMN)