Rachel L. Kennison, Ph.D.

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Education

Sarah Lawrence College | Bronxville, NY	Cultural Anthropology	B.A.	1987
Columbia University | New York, NY	Clinical Social Work	M.S.W.	1991
University of California, Los Angeles | Los Angeles, CA	Biology	Ph.D.	2008

PhD Dissertation: *Evaluating ecosystem function of nutrient retention and recycling in excessively eutrophic estuaries*

Appointments

2020 - *Interim Director,* UCLA, Center for Education, Innovation and Learning in the Sciences, University of California, Los Angeles (CEILS)

2020 - *Administrative Co-Lead*, UCLA's Center for the Integration of Research, Teaching, and Learning (CIRTL@UCLA)

2019- *Senior Associate Director,* UCLA, Center for Education, Innovation and Learning in the Sciences, University of California, Los Angeles (CEILS)

- Teaching and Administering UCLA and CIRTL Courses: LS 110, LS 495, Grad PD 496A,B,C, FLP, working with CEA to assess LS 110 and LS 495
- CIRTL Directing and Administration: Recruitment, promotion, advising, of CIRTL@UCLA activities, serving on CIRTL network committees and TAR Leadership Team
- CEILS workshop development and facilitation: ongoing leadership in professional development workshops for Life and Physical Science faculty on evidence based and inclusive teaching, transition to remote teaching

2019- *Academic Administrator V*, Dept. of Life Sciences Core Education, UCLA

2019- *Assistant Adjunct Professor,* Dept. of Ecology and Evolutionary Biology (EEB), UCLA

2017 - *Program Director*, UCLA's Center for the Integration of Research, Teaching, and Learning (CIRTL@UCLA)

2016- *Adjunct Faculty,* STEM Counseling Dept, Santa Monica College

2016-2019 *Associate Director*, CEILS

2016-2019 *Academic Administrator III,* CEILS

2014-2016 *Assistant Director,* UCLA, Undergraduate Research Center-Sciences

2014-2016 *Academic Administrator II,* UCLA, Undergraduate Research Center-Sciences

2013-2014 *Program Representative III*, UCLA, Undergraduate Research Center-Sciences

2011-2013 *Co-Director*, Centers for Ocean Science Education Excellence-West, Dept. Ecology and Evolutionary Biology, UCLA

Teaching Experience (Graduate Students and Postdoctoral Scholars)

2019 - Grad PD 496B: Teaching as Research, Winter, UCLA

2019 - 2020 Grad PD: 496A: An Introduction to Evidence Based Teaching Practices, Fall UCLA

2018- Mol Bio 497: Career Readiness Inside and Outside the Academy, Spring, UCLA

2017- LS 495: Preparation for Teaching in Higher Education: Fall, Winter and Spring, UCLA
2017-2018 CIRTL Learning Community 2.0:, Spring, UCLA
2017-2018 Advancing Teaching through Teaching as Research, Spring UCLA
2015-2017 Entering Mentoring Training: winter and spring, UCLA

Teaching Experience (Undergraduate Students)

2018- Kayne Scholars STEM program, UCLA
2016- LS 110: Career Exploration in the Sciences, fall, winter spring, UCLA
2016-2020 Counseling 12 and 15: Career Exploration in STEM, Santa Monica College
2017-2018 University Studies 10, Fall, UCLA
2014-2016 Env 188b: Special Courses in Environment: Grand Challenges Undergraduate Research Scholars Program, Year-long course, UCLA.
2011- 2014 EEB C179/C237: Communicating Science to Informal Audiences, Spring, UCLA
2014 EEB 100L: Ecology and Animal Behavior, Spring, UCLA
2013 Life Sciences 1: Evolution, Ecology and Biodiversity, Fall, UCLA
2010 Bio 425, Phycology with lab, California State University, Long Beach, CA. 2010
2010 Bio 2, Human Biology, Santa Monica College
2009 Advanced Phycology training course, Smithsonian Tropical Research Institute, Bocas del Toro, Panama

Online Teaching Experience (Faculty, Postdocs and Graduate Students)

2016 - Faculty Learning Program, year-long
2018-2019 Diversity in the College Classroom, Spring, CIRTL network
2017-2018 Teaching as Research, Fall, CIRTL network

Invited presentations in current position

American Society of Cellular Biology, May 2020, Soka University of America, Aliso Viejo, CA. Online Plenary, "Preparing graduate students and postdoctoral scholars for success in diverse STEM classrooms by engaging in reflective teaching practices"

HHMI Inclusive Excellence Summit, December 2018, January, 2020, UCLA. Talk, LS 110: A Career Exploration course that drives persistence in STEM. RL. Kennison.

Society for Advancement of Biology Education Research - West, January 2018, Irvine, Ca. Poster. Career Exploration in the Life Sciences: An Innovative Course to Increase Retention of Undergraduate Life Science Majors and Persistence in STEM Careers. RL. Kennison, C. Shapiro, J. Gregg, M. Levis-Fitzgerald, E. Sanders.

Association of American Colleges & Universities, November 2017, San Francisco, Ca. Poster. A Career Development Intervention to Improve Persistence of STEM Life Science Majors at Large Universities. RL.Kennison, C. Shapiro, J. Gregg, M. Levis-Fitzgerald, E. Sanders.

China Faculty Development Program, August 2017, Office of Instructional Development, UCLA. Career Development in the Life Sciences. RL. Kennison

Understanding Interventions Conference , March 2017, San Antonio, Texas. Poster. Career Exploration in the Life Sciences: An Innovative Course to Increase Retention of Undergraduate Life Science Majors and Persistence in STEM Careers , Sheila Benko (presenter), RL Kennison, E. Sanders, K. Davy.

Research Publications

Kennison, RL ., Shapiro, C.,Gregg, J., Liu, A., Levis-Fitzgerald, M. and Sanders-O'leary, E. Career Exploration in the Life Sciences - A highly structured college course-level intervention increases undergraduate student career decision self efficacy to pursue a variety of science careers. In prep.

Kennison, RL and Fong, P. 2013. High amplitude tides that result in floating mats decouple algal distribution from patterns of recruitment and nutrient sources. Marine Ecology Progress Series 494:73-86.

Kennison, RL and Fong, P. 2013. Extreme eutrophication in shallow estuaries and lagoons of California is driven by a unique combination of local watershed modifications that trump variability associated with wet and dry seasons. Estuaries and Coasts Special Issue.

Kennison, R. L ., K. Kamer, and P. Fong. 2011. Rapid nitrate uptake rates and large short term storage capacities may explain why opportunistic green macroalgae dominate shallow eutrophic estuaries. Journal of Phycology 47 (3): 483-494.

Smith, T.B., P. Fong, RL Kennison and J. Smith. 2010. Spatial refuges and associational defenses promote harmful blooms of the alga Caulerpa sertularioides onto coral reefs. Oecologia.

Kamer, K., Fong, P., RL Kennison and Schiff, K. 2004. The relative importance of sediment and water column supplies of nutrients to the growth and tissue nutrient content of the green macroalga Enteromorpha intestinalis across an estuarine resource gradient. Aquatic Ecology 38: 45-56

Kamer, K., Fong, P., RL Kennison and Schiff, K. 2004. Nutrient Limitation of the Macroalga, Enteromorpha intestinalis, Across a Range of Water Column Nutrients and Initial Tissue Nutrient Status. Estuaries 27:201-208

Kennison, RL , Kamer, K. and Fong, P. 2003. Nutrient dynamics and macroalgal blooms: A comparison of five southern California estuaries. Southern California Coastal Water Research Project. Technical Report 416.

Fong, P and R.L. Kennison . 2010. Phase shifts, alternative stable states, and the status of southern California lagoons. In: Coastal Lagoons : Critical Habitats of Environmental Change. Kennish, M.J and J.W. Paerl (Eds). CRC Press, Boca Raton, Fl. pg. 227-251.

Professional Service

Excellence in Educational Innovation and Promotion of Diversity Committee	Current
Cross Campus Teaching Innovations Group	Current
CIRTL Cross Network Working Group	Current
Annual Honors Summer Research Scholarship Selection Committee	2015-present
The HHMI Exceptional Research Opportunities Program Selection Committee	Winter 2018
UCLA's Undergraduate Neuroscience Interdepartmental Program Search Committee	Fall 2018

Grants

- *Collaborative Research: NSF INCLUDES Alliance: National Alliance for Inclusive and Diverse STEM Faculty (Aspire)*, National Science Foundation (NSF) Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (INCLUDES) Program. (Role: Co-PI). 10/01/18-08/31/23; **$680,227**.

- *Transforming College Teaching: Statewide implementation of the Faculty Learning Program to improve STEM undergraduate teaching and learning*. Subaward from UC Berkeley. (Role: PI) 2/1/17-8/30/19; **$61,000**
- *Assessment of LS 110: Career Explorations in Life Science – A Curricular Intervention Intended to Improve the Persistence and Diversify the Career Interests of life Science STEM Majors.* UCLA Instructional Improvement Grant Program. (Role: PI). 6/1/17-6/30/18; **$12,000.**

Awards:

- Biology Teaching Assistant Project (BioTAP) Program Scholar (2018-2019)
- Summer Institute Scientific Teaching Mentor (2017-2019)
- UCLA Life Sciences Award for Education Innovation (Category: Non-ladder faculty; 2019)

Professional Development Training

● HHMI & UCLA Inclusive Excellence Institute, February, 2020
● Intergroup Relations Training, UCLA, 2018, 2019
● Summer Institute on Undergraduate STEM Education, Faculty Training on Best Teaching Practices, July 2016, Louisiana State University, Baton Rouge, LA.
● 2-day Faculty Learning Program Training, UC Berkeley, Oct. 2016.
● Week-long Myers Briggs Type Indicator Certification, CPP, San Francisco, Oct. 2016
● 60-hour online Strong Interest Inventory Certification, CPP, Dec. 2016
● Workshops on Intergroup dialogue and Conflict Resolution, UCLA, Feb. 2017
● CIRTL Network meetings Lincoln, NE., March 2017, Baltimore, MD., October, 2017
● UCLA Enhancing Student Success in Science Workshop for Life and Physical Science Faculty, Santa Barbara, March 2017.
● 3 hours LGBTQ Ally Training, April 2017
● CIRTL Teaching as Research Training Ithaca, NY., June, 2017
● Master Facilitator, National Research Mentoring Network, 2017