

## DAX OVID

### Curriculum Vitae

Department of Biology  
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### EDUCATION

- Ph.D. Integrative Biology, University of California, Berkeley, 2017
- B.A./B.A. Integrative Biology & Italian Studies, University of California, Berkeley, 2011

### PROFESSIONAL EXPERIENCE

- 2019- Postdoctoral Researcher, Department of Biology, San Francisco State University  
Advisor: Prof. Kimberly Tanner

Funded by NSF IGE and NIH SEPA grants and studying equity, inclusion, and aspects of student identity in relation to science, including (1) conducting longitudinal study of ~30 biology graduate students, how data science identity and career aspirations change over time, (2) analyzing ~100 biology undergraduate student memories and perceptions of non-content instructor language, and (3) surveying ~1000 science students' shift in relatability to scientists following a curricular intervention called *Scientist Spotlights*.

- 2018-19 Director of Education, Call of the Sea 501(c)(3)

Developed culturally-responsive curricula for on-the-water environmental education for pre-college and university students; submitted fellowships, grant applications, and annual reports with local organizations and federal agencies; hired, trained, and managed seven outdoor educators.

- 2017 Postdoctoral Researcher, Department of Integrative Biology, UC Berkeley  
Advisor: Prof. Tyrone B. Hayes

Researched and published on seasonal reproductive timing in mammals and birds, conducted field and lab work on amphibia, and mentored graduate and undergraduate researchers. Served as Program Coordinator for National Science Foundation, Research Experiences for Undergraduates (NSF REU).

### PUBLICATIONS

#### *Peer Reviewed Journal Articles*

- 2022 **Ovid, D.** & Phaka, F.M. Idwi, *Xenopus laevis*, and African Clawed Frog: Teaching Counternarratives of Invasive Species in Postcolonial Ecology. *Journal of Environmental Education*. (accepted)
- 2021 **Ovid, D.**, Rice, M. M., Luna, J. V., Tabayoyong, K., Lajevardi, P., & Tanner, K. D. (2021). Investigating Student Perceptions of Instructor Talk: Alignment with

Researchers' Categorizations and Analysis of Remembered Language. *CBE—Life Sciences Education*, 20(4), ar61.

- 2021 Phaka, F.M. & **Ovid, D.** Life sciences reading material in vernacular: Lessons from developing a bilingual (isiZulu and English) book on South African frogs. *Current Issues in Language Planning*. <<https://doi.org/10.1080/14664208.2021.1936397>>
- 2018 **Ovid, D;** Hayes, T.B; Bentley, G.E. Melatonin Administration Methods for Research in Mammals and Birds. *Journal of Biological Rhythms*, 33(6): 567–588.
- 2018 **Vivid, D.** & Bentley, G.E. Seasonal reproduction in vertebrates: melatonin synthesis, binding, and functionality using Tinbergen's four questions. *Molecules*. 23(3): 652-705.
- 2017 Bentley, G.E; Wilsterman, K; Ernst, D.K; Lynn, S.E; Dickens, M.J; Calisi, R.M; Kriegsfeld, L.J; Kaufer, D; Geraghty, A.C; **Vivid, D;** McGuire, N.L; Lopes, P.C; Tsutsui, K. Neural Versus Gonadal GnIH: Are they Independent Systems? A Mini-Review. *Integrative and Comparative Biology*. 57(6): 1194–1203.
- 2011 McGuire, N. L., **Kangas, K.**, & Bentley, G. E. Effects of melatonin on peripheral reproductive function: regulation of testicular GnIH and testosterone. *Endocrinology*, 152(9), 3461-3470.

*Legal name at time of publication in bold.*

### ***In Review***

Gelinas, K., **Ovid, D.**, ... Tanner, K.D. Investigating Instructor Talk among Graduate Teaching Assistants in Undergraduate Biology Laboratory Classrooms. Target: *CBE—Life Sciences Education*.

### ***Forthcoming Publications***

**Ovid, D.**, Rohlf, R., Pennings, P., Adelstein, N., and Tanner, K.D. Data Science Identity and Career Aspirations in Biology, Biochemistry and Chemistry Graduate Students. Target: *CBE—Life Sciences Education*.

**Ovid, D.**, Flores, P., Goolish, J., Quintero, C.R., Simon, H., Taylor, J., Vargas Luna, J., Zhang, E., Schinske, J., and Tanner, K.D. Investigating the Scientist Spotlight Initiative in Secondary School Science Classrooms: Student Shifts in Relatability to and Descriptions of Scientists. Target: *CBE—Life Sciences Education*.

**Ovid, D.** & Leonardo, Z. She Blinded Me with Science: Post-Curriculum and the New Scientific Education. Target: *Journal of Curriculum Theorizing*.

### **FELLOWSHIPS & AWARDS**

- 2016 **Dissertation-Year Fellowship**, University of California Office of the President
- 2013 **Graduate Research Fellowship Program**, National Science Foundation
- 2012 **Initiative for Maximizing Student Development**, HHMI
- 2012 **Graduate Research Mentorship Fellowship**, UC Berkeley (declined offer)
- 2009-2011 **Biology Fellows Program**, research funding, UC Berkeley

## TEACHING EXPERIENCE

### San Francisco State University, Instructor

- 2022 ***LEADerS Service-Learning Course: Learners Engaged in Advocating for Diversity in Science***  
Co-instructor empowering undergraduate biology students to develop inclusive content and active-learning exercises in partnership with biology faculty teaching upper-division courses, estimated 30 undergraduate students enrolled.
- 2021 ***Scientific Teaching for Scientists***  
Instructor emphasizing and modeling evidence-based pedagogical practices for graduate student teaching assistants (GTAs) in the sciences, 20 graduate students enrolled. Supporting the development of GTA-led assessments in laboratory courses.
- 2021 ***Exploratory Data Science for Scientists***  
Co-instructor focusing on R Studio for NHANES data, 38 graduate students enrolled. Collaborating with faculty doing community engaged research on age/telomere length across racial groups. Students complete pre- and post-surveys in research study on data science identity.
- 2020 ***Introductory Biology***  
Co-instructor focusing on systems biology, 320 undergraduate students enrolled. Students engage with regular pre- and post- polls in class and breakout groups. Students complete weekly assessments and written assignments on biographies and research from diverse scientists.

### Mount Tamalpais College, Instructor

- 2018 ***Research & Writing***  
Co-instructor working with 30 incarcerated students to design and conduct literature review.

### University of California, Berkeley, Graduate Student Instructor (GSI)

- 2017 ***Public Engagement with Science | Course Design Team & GSI***  
Taught 3 lectures with ~100 students and led two weekly discussion sections with ~20 students each. Students worked in teams to design projects in collaboration with underserved communities to engage with scientific issues of socio-cultural relevance. Students presented in symposium.
- 2014 ***Public Understanding of Science | Course Design Team & GSI***  
Taught 2 lectures with ~120 students and led two weekly discussion sections with ~20 students each. Students worked on essays related to science education, science culture, medical access, and the ethics of science. Compiled, edited, curated written assignments into a published book.
- 2013 ***Data and Diversity | Course Design Team & Graduate Mentor***  
Worked with 12 undergraduate students and the Division of Equity & Inclusion to use campus data to design research projects to investigate inclusion in the sciences.
- 2013 ***Reproducible and Collaborative Data Science | Course Design Team & GSI***  
Designed a course for 30 students to analyze, visualize, and present earthquake prediction model. Disseminated results at data science symposium and created a video to document course design.
- 2012 ***Human Reproduction | GSI***  
Taught 2 weekly discussion sections, 40 students
- 2011 ***Introductory Biology: Botany, Evolution, Ecology | GSI***  
Co-taught lab, 40 students

## CONFERENCE ACTIVITY

### Invited Workshops

2021 Scientist Spotlights Initiative and Inclusive Curriculum Design. Society for the Advancement of Biology Education Research (SABER) West. 3-Day Workshop, Online, January 8, 15, 22.

### Invited Talks

- 2021 Promoting Inclusion in Biology with Scientist Spotlights and Instructor Talk. University of Georgia, Athens, August 31.
- 2021 Using Instructor Talk to Promote a Positive Learning Environment. National Institute on Scientific Teaching. Online, June 18.
- 2021 The Scientist Spotlights Initiative: Integrating Counterstereotypical Scientists in Science Courses. National Institutes of Health (NIH) SciEd Conference. Online, May 25.
- 2020 Scientist Spotlights Initiative in High School Settings. National Association of Biology Teachers Conference. Online, November 12.

### Panels Organized

- 2019 *Workshop Organizer* - On the Water Environmental Education and Ocean Literacy Under Sail. National Marine Educators Association, Durham, NH, July 21-25.
- 2018 *Conference Organizer & Panel Moderator* - (Un)Tapped Potential: The Future of the University & Entrepreneurship. SkyDeck Incubator, Berkeley, CA, April 20.

### Presentations

- 2022 (*accepted*) The Scientist Spotlights Intervention in Pre-College Settings: Investigating Shifts in High School Students' Relatability and Descriptions of Scientists. Society for the Advancement of Biology Education Research (SABER) West.
- 2021 Investigating Undergraduate Student Memories and Perceptions of Instructor Talk in Biology Classrooms. Society for the Advancement of Biology Education Research (SABER). Online, July 9-30.
- 2021 Teaching and learning science. The *Currere* Exchange: 5<sup>th</sup> Annual Conference and Retreat. Online, June 17.
- 2021 She Blinded Me with Science: Post-Curriculum and the New Science. American Educational Research Association (AERA). Online, April 9-12.
- 2020 Teaching Counternarratives in STEM using Postcolonial Frameworks. Association of American Colleges and Universities (AAC&U). Online, Nov. 5-7.
- 2014 Meta-Pedagogy and Post-Publication Peer Review: The use of scientific literature in the classroom. Sociedad Latinoamericana de Estudios Sociales de la Ciencia y la Tecnología (ESOCITE) and Society for the Social Studies of Science (4S) Conference. Buenos Aires, Argentina, August 20-23.
- 2013 Future of Scientific Discourse and Education. Society for the Social Studies of Science (4S) Conference. San Diego, CA, October 9-12.

2013 Awakening a Sleeping Dogma: Melatonin Synthesis de novo in Passerines. North American Society for Comparative Endocrinology. Universidad Nacional Autónoma de México, Querétaro, May 22-24.

### Posters

2020 Scientist Spotlights: Integrating Themes of Diversity and Inclusion with Course Content. Cultivating Scientific Curiosity, QUBES Educational Resources. doi:10.25334/RXTM-NK79 August 3-7.

2014 The Songbird's Fourth Eye: Melatonin-Synthesizing Enzymes in the Hypothalamus of European Starlings. Integrative and Comparative Biology, Austin, TX, January 3-7.

2013 Awaking a sleeping dogma: de novo hypothalamic melatonin synthesis in passerines. Integrative and Comparative Biology, San Francisco, CA, January 3-7.

### CAMPUS TALKS

2018 Expanding Undergraduate Success in STEM - Lessons from a Biology Scholars Program Course. Matsui, M; Ovid, D; Okeke, I. UC Berkeley

2011 Differential Expression of Glucocorticoid Receptor in *Passer domesticus*. Biology Fellows Program Spring Symposium. UC Berkeley

2009 Shedding Light on Avian Reproduction: Comparing the Relative Abundance of GnIH and GnIHR Synthesized in Photostimulated and Photorefractory *Sturnus vulgaris*. Biology Fellows Program Summer Symposium. UC Berkeley

### SERVICE TO THE PROFESSION

#### Manuscript Reviewing

*Course Source*, 2020-Present; *International Journal of STEM Education*, 2021-Present

#### Conference, Award, and Grant Reviewing

Abstract Reviewer, Society for the Advancement of Biology Education Research (SABER) West Conference, Online, 2021

Paper Reviewer, Sociopolitical Issues in Mathematics and Science Education Special Interest Group, American Education Research Association (AERA), Online, 2021

Award Reviewer, SEA Change Institutional Bronze Award, American Association for the Advancement of Science (AAAS), Online, 2020

Grant Reviewer, National Oceanic Atmospheric Administration (NOAA) Bay Watershed Education and Training, Monterey, CA, 2018-20

#### Professional Committees

Co-chair, Professional Development Committee, Discipline Based Education Research for Scholars-in-Training, SABER, 2020-2021

### UNIVERSITY SERVICE

Campus Affairs Vice-President, Graduate Assembly, UC Berkeley, 2016-17

Graduate Student Wellness Project Director, UC Berkeley, 2015-16

## **University Committees**

Committee on Academic Planning and Resource Allocation, Graduate Assembly  
Representative, UC Berkeley, 2016-17

Graduate Assembly Delegate for Department of Integrative Biology, UC Berkeley, 2012-15

Committee on Academic Freedom, UC Berkeley, 2013-15

## **Professional Development Workshops**

*Organizer*, Graduate Student Inclusivity Training and Certificate Program, in Partnership  
with Restorative Justice Center and Multicultural Education Program, UC Berkeley, 2016

## **To Community**

Biology Summer Lab Activity Modification (BioSLAM), San Francisco State University,  
draft & review lab curriculum for remote instruction, racial justice, and equity, 2020

Mentor Judge, Society for Advancement of Chicanos/Hispanics and Native Americans in  
Science (SACNAS), 2020

Chair, University Committee for Faculty Mentor Award, UC Berkeley, 2016-17

Co-Chair, University Student Health Advisory Committee, UC Berkeley, 2015-16

Diversity Workgroup, Graduate Assembly, UC Berkeley, 2013-16

Reviewer, Biology Fellows Program for Undergraduate Research, UC Berkeley, 2011-14

## **POPULAR PRESS**

*The Impact of Science Stories with Dr. Dax Ovid*. Story Collider Podcast. December 15, 2021  
< <https://www.patreon.com/m/74164/posts>>

## **OTHER PROFESSIONAL EXPERIENCE**

Education Specialist – Consultant for Curriculum Development and Assessment for  
Discovery Grant, Dept. Integrative Biology at UC Berkeley, 2022

Academics for Black Survival and Wellness: Anti-Racism Track, 2020 & 2021

Justice, Equity, Diversity and Inclusion Pedagogies of Inclusive Excellence in Online  
Teaching Institute, 2020

Curriculum Consultant, Biology Scholars Program, UC Berkeley, 2018-19

Strategic Communications Associate, Cyclotron Road, Lawrence Berkeley Laboratory, 2018

Program Coordinator, National Science Foundation, Research Experiences for  
Undergraduates (REU), 2017

Focus Group Coordinator, Fung Fellowship Program, UC Berkeley, 2016-17

## **PROFESSIONAL ASSOCIATIONS**

Society for the Advancement of Biology Education Research, 2020-present

American Educational Research Association, 2020-present

Society for the Social Studies of Science, 2013-15, 2020-present

Society for Integrative and Comparative Biology, 2011-14