

## DAX OVID

### Curriculum Vitae

Department of Biology  
236 Hensill Hall  
1600 Holloway Ave.  
San Francisco, CA 94132

www.daxovid.com  
daxovid@sfsu.edu

## 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 aspects of student identity in relation to science, including (1) conducting a longitudinal study of ~30 biology graduate students and 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 amphibians, 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*

2021 **Ovid, D.**, Rice, M.M., Tabayoyong, K., Vargas Luna, J., Lajevardi, P., and Tanner, K.D. Investigating Student Perceptions of Instructor Talk: Analysis of Remembered Language and Alignment with Researchers' Categorizations. Target: *CBE—Life Sciences Education*. (accepted)

- 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> (*accepted*)
- 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***

**Ovid, D.** & Phaka, F.M. Idwi, *Xenopus laevis*, and African Clawed Frog: Teaching Counternarratives of Invasive Species in Postcolonial Ecology. Target: *Journal of Environmental 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*.

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

#### **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

- 2021 ***Scientific Teaching for Scientists***  
Instructor emphasizing and modeling evidence-based pedagogical practices for graduate student teaching assistants in the sciences, estimated 30 graduate students enrolled.
- 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

- 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      Awakening 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

### Conference, Award, and Grant Reviewing

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

Award Reviewer, Sea 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, Society for the Advancement of Biology Education Research, 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

## **OTHER PROFESSIONAL EXPERIENCE**

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

## **LANGUAGES**

Italian: Advanced reading, writing, speaking; German: Intermediate reading, writing,  
Beginner speaking; Spanish: Intermediate reading, writing, Beginner speaking