KAYLEE ALLISON LAUB

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EDUCATION

Ph.D.	**University of California, Santa Barbara** Major: Science Education Ph.D. Emphasis: Climate Sciences and Climate Change	**2022- Present**
M.A.	**University of California, Santa Barbara** Major: Education Thesis: *Students' Discussions and Development of Board Games to Model Human Impact on the Environment* Committee: Drs. Danielle Harlow (chair), Julie Bianchini, and Karin Lohwasser	**2024**
M.A.	**California State University, Fresno** Major: Teaching Thesis: *Students' sensemaking within a problem-based science lesson centered around a local community issue* Committee: Drs. Earl Aguilera (chair), Rohit Mehta, and Lynette Guzman	**2021**
Teaching Credential	**California State University, Fresno** Single-Subject: Biological Sciences	**2017**
B.S.	**California State University, Fresno** Major: Biology	**2015**

TEACHING EXPERIENCE

Teaching Assistant **2024**
ED 265, University of California, Santa Barbara
Advised and supported graduate students in the dual credential and Master's program with their research projects. Review papers and provide guidance, resources, and feedback to further their Master's projects.

Teaching Assistant **2023-2024**
ED 199RA, University of California, Santa Barbara
Supported undergraduate research assistants in the data analysis process of several research projects on campus. Provided guidance and information to develop undergraduate research experiences with transcribing audio and video data, interviewing skills, techniques for data analysis, and conference proposal writing.

Teaching Assistant **2022-2023**
ED L 321, University of California, Santa Barbara
Provided single-subject teacher candidates in the Teacher Education Program (TEP) with strategies and activities to utilize in their content areas that promote student autonomy and student-centered learning approaches. Prepared and planned for course lectures and evaluated students' reading responses and coursework projects.

8th Grade Science Teacher **2017-2022**
Alta Sierra Intermediate School, Clovis, CA
Facilitated instructional learning of science for 8th-grade students using problem-based, place-based, and student-centered pedagogical practices. Created NGSS-aligned curricula and assessments centered around student agency and multicultural approaches.

Teaching Assistant **2021**
CI 149, California State University, Fresno
Provided constructive feedback to single-subject credential students on discussion posts and course projects. Developed exemplary signature projects to provide students with ideas and direction for their content areas.

AVID Elective Teacher **2018-2021**
Alta Sierra Intermediate School, Clovis, CA
Provided students with enriching writing, inquiry, collaboration, organization, and reading (WICOR) activities that developed college readiness skills. Developed student-centered and student-led collaborative lessons for the AVID elective department.

RESEARCH EXPERIENCE

Graduate Student Researcher **2023-2024**
University of California, Santa Barbara
Funded by the National Science Foundation Grant No. 2334340
Planning: CRISES: Climate Adaptation Solutions Accelerator (CASA) through School-Community Hubs
PI is Simone Pulver Co-PIs are Danielle Harlow and Sarah Anderson. $99,098.

Researching and writing literature reviews on community schools, adaptation plans, and ways to support K-12 learning of climate adaptation lessons. Working with local schools to provide support schools as community hubs as climate adaptation hubs that connect with parent and stakeholders.

Graduate Student Researcher- ÉXITO **2023-2024**
University of California, Santa Barbara
Funded by the U.S. Department of Education
An evaluator for the Educational eXcellence and Inclusion Training Opportunities program. My responsibilities included interviewing students and faculty, collecting survey data, creating instruments, analyzing data, and writing reports.

Graduate Student Researcher **2022-2023**
University of California, Santa Barbara
Funded by the National Science Foundation Grant No. 1758264
Effective Novice Teachers: A Study of How Systems of Support Can Transform the Clinical Experience During Teacher Preparation.
PI is Karin Lowhasser. Co-PIs are Mark Windschitl and Jennifer Doherty. $800,000.
Coordinated professional development sessions, implemented data collection, and analyzed procedures to study the effects of the professional development session for supervisors and in-service teachers.

Graduate Student Assistant- CA Global Education Project (CGEP) **2022-2023**
University of California, Santa Barbara
Assisted and provided resources to secondary science teachers from Oxnard, Santa Ynez, and Santa Barbara schools to facilitate their year-long sustainable schoolyard projects.

Graduate Student Coordinator- School for Scientific Thought (SST) **2022-2024**
University of California, Santa Barbara
Developed and implemented workshops that provided STEM graduate students with skills to create lesson plans and integrate student-centered and collaborative teaching strategies in their courses to engage local high school students. Evaluated student responses to inform instructor goals and future lesson designs.

Graduate Student Assistant- Family Ultimate Science Exploration (FUSE) **2022-2023**
University of California, Santa Barbara
Coordinated and organized STEM graduate students in facilitating science lab activities for middle school students and their families in the local Santa Barbara and Goleta areas.

Graduate Student Researcher **2022-**
University of California, Santa Barbara **Present**
Funded by: National Science Foundation Grant No. 1852798
COASTAL: Collaboration for Opportunities in and Advancement of STEM Teaching and Learning.
PI Team: Darby Feldwinn, Julie Bianchini, and Danielle Harlow. $1,100,000.
Conducted NVivo qualitative coding of teacher candidate interview transcripts for the NSF COASTAL Project under the advisement of Drs. Julie Bianchini and Sarah Roberts. Corresponded on research papers and conference publications related to the research project.

Research Apprenticeship- QUANDER Project **2022-2024**
University of California, Santa Barbara
Funded by National Science Foundation Grant No. 2115780 and 2115843
Created and developed instructional guides for informal classroms to implement a digital game centered around quantum computing concepts. Conducted focus group research to determine player interaction and understanding of quantum science through a digital game.

PUBLICATIONS (*UNDERGRADUATE STUDENT)

Azzam, D., **Laub, K.,** & Harlow, D., (2024). Sustainable schoolyards: A professional development program for teachers to engage their students in local action to develop global competence. *Science and Children*, *61*(2). Retrieved from: https://www.nsta.org/science-and-children/science-and-children-marchapril-2024/sustainable-schoolyards-professional

Laub, K., & Aguilera, E. (2024). Making scientific sensemaking visible. *Science Scope, 47*(1), 22-28. DOI:10.1080/08872376.2023.2290294.

Christman, D., *Lejano, C., **Laub, K.**, Garcia, L., Gonzalez-Maldonado, D., Liu, T., Williams, G., Harlow, D., Franklin, D., Edwards, E. (2023) Introducing Quander: A QIS Game World for The Secondary Level. *Connected Science Learning*.

Laub, K. A., (2022). Leaning into controversy: Pandemic conversations in a science classroom. *Language Arts. 100*(1). 56-58.

Aguilera, E., & **Laub, K. A.,** (2021). Developing Digital Fluency: Open Questions for Our 21st Century Literacy Classrooms. *Literacy Today. 35*(3). 49-51. Available: http://viewer.zmags.com/publication/3f43b02c#/3f43b02c/60.

Laub, K. A. (2021). *Students sensemaking within a problem-based science lesson centered around a local community issue*. (Publication No. 28860751) [Master's thesis, California State University, Fresno]. ProQuest.

PRESENTATIONS (*UNDERGRADUATE STUDENT)

Laub, K., Olarte, R., Roberts, S., & Bianchini, J. (2024). *Learning to engage multilingual learners in cognitively demanding tasks: Comparing preservice mathematics and science teachers.* 2024 Annual Meeting of the American Educational Research Association. Philadelphia, PA.

Laub, K., & Aguilera, E. (2024). *Representations of race, gender, and sexuality in middle school students' game design practices.* 2024 Annual Meeting of the American Educational Research Association. Philadelphia, PA.

Lohwasser, K., & **Laub, K.** (2023, Jul. 28). *Bridging the two-worlds divide through an interdisciplinary approach to climate justice teaching.* Supervisors of Teacher Education Network Team (STENT) 2023 Conference. Santa Barbara, CA.

Laub, K. (2023, Jun. 21) *Sensemaking through games*. Teaching for Sustainable Communities 2023 California Global Education Project. Santa Barbara, CA.

McNish, D., Bennett, M., **Laub, K.**, Garcia, L., Olarte, R., Valdez, V., Dexter-Torti, C., Hough, S., Roberts, S., & Bianchini, J. A. (2023, Apr. 14). *From remote to in-person learning: Changes in resources used by preservice secondary science teachers.* 2023 Annual Meeting of the American Educational Research Association. Chicago, IL.

Christman, D., *Lejano, C., **Laub, K.,** Garcia, L., Gonzalez-Maldonado, D., Liu, T., Williams, G., Harlow, D., Franklin, D., Edwards, E. (2023). *Preliminary findings from QIS game world testing.* 2023 American Association of Physics Teachers Winter Meeting. Portland, OR.

Laub, K. (2022, Sep. 6). *Good teachers, good teaching: Defining what counts*. CI149: Curriculum, Instruction, & Technology in Secondary Schools. California State University, Fresno.

Laub, K. (2021, Nov. 1). *Every student matters: Differentiated and responsive pedagogies.* CI149: Curriculum, Instruction, & Technology in Secondary Schools. California State University, Fresno.

Laub, K. (2020). *Edulastic training/workshop.* California League of Schools/ CUE Technology Conference 2020. Monterey, CA.

Laub, K. (2019). *GoFormative aka formative*. California League of Schools/ CUE Technology Conference 2019. Monterey, CA.

Laub, K. (2019). *FlipGrid: The essentials.* California League of Schools/ CUE Technology Conference 2019. Monterey, CA.

PROFESSIONAL SERVICE AND LEADERSHIP

Mentor **2023-2024**
University of California, Santa Barbara
Environmental Leadership Incubator (ELI)
Supported an undergraduate student in developing skills in environmental leadership. Met regularly to advise and consult student on their project goals and progress towards their research objectives.

Guest Discussant **2023**
California State University, Fresno
For the course, *Advancing Inclusive Mentoring Program,* on 30 October 2023. This virtual session, hosted by Dr. Earl Aguilera of California State University, Fresno, invited local university faculty to learn about, reflect on, and discuss various dimensions of mentoring from the perspective of diversity, equity, and inclusion (DEI).

Gay-Straight Alliance (GSA) Club Advisor **2022**
Alta Sierra Intermediate School, Clovis, CA
Supported LGBTQIA+ students in organizing social and advocacy group meetings. Provided students with resources to facilitate ways to advocate for change in the campus culture.

Science Olympiad Coach **2018- 2022**
Alta Sierra Intermediate School, Clovis, CA
Coached over 80 students in 23 different science events that span testing and engineering events. Ran several events (Density Lab, Ecology, Ornithology) at the regional and state competition. Developed, implemented, and scored tests.

Curriculum Developer **2018- 2019**
Clovis Unified School District
Developed curricula for 8th-grade science departments in Clovis Unified School District, including NGSS-aligned lessons, labs, and assessments.

Science Fair Coach **2016- 2017**
Alta Sierra Intermediate School, Clovis, CA
Critiqued student projects and offered feedback to improve data, graphs, and written analyses. Coordinated the Science Fair event with local community members and judged and scored final projects.

HONORS AND AWARDS

University Graduate Dean Medalist Award (3rd Place) **2022**
California State University, Fresno

Outstanding Thesis Award Nominee **2022**
California State University, Fresno

Ally Award **2022**
Clovis Unified School District

Educator of Merit **2019**
Clovis Unified School District

Dean's List **2015**
California State University, Fresno

President's List **2015**
California State University, Fresno

GRANTS

Chancellor's Office Research, Scholarly, and Creative Activities (CO RSCA) **2022-2023**
Digital Literacies Across the Curriculum: Case Studies in K-12 STEM Classrooms
PI is Earl Aguilera. Co-PI is **Kaylee Laub** and Mighty Chen. $10,000.

PROFESSIONAL MEMBERSHIPS

American Educational Research Association (AERA)

International Literacy Association (ILA)

Phi Kappa Phi