

Kelly Billings
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Research Interests: Curriculum development, STEM education, teacher education, learning sciences, justice-centered science pedagogy, equity in STEM

Education:

University of California, Berkeley

Berkeley, CA

- PhD candidate, Learning Sciences and Human Development

August 2020-present

University of San Diego

San Diego CA

- Class Completed: The Special Education Student in the Inclusion Classroom Summer 2018
- Class Completed: Read, Empower, Act, Discover Part 1/Science - The Immortal Life of Henrietta Lacks Summer 2018

Loyola Marymount University

Los Angeles, CA

- Single Subject Teaching Credential - Biology - 4.0 GPA

August 2016-May 2017

University of Southern California

Los Angeles, CA

- Bachelor of Science in Environmental Studies - 3.73 GPA

August 2012- May 2016

Employment History:

Graduate Student Researcher - TELS group

Berkeley, CA

- Participate in research group meetings
- Implement classroom studies with WISE curriculum
- Develop WISE curriculum designed to promote equity and anti-racism in science classrooms
- Submitted paper for ISLS 2021 conference based on fall 2020 classroom studies

August 2020-Present

Trellis Mentor Fellow

Oakland, CA

- Mentor 2 teachers through induction 2020-2021 school year
- Mentored student teacher for the 2019-2020 school year
- Implement coaching Trellis protocols
- Attend professional development focused on teaching, equity, and STEM

June 2019-Present

Oakland Unified School District

Oakland, CA

Madison Park Academy

August 2016-June 2020

High School Science Teacher:

- Wrote and implemented NGSS aligned science and engineering curriculum
- Created standards-based grading and rubric system following NGSS standards
- Successfully completed 4 research-based inquiry cycles to complete OUSD's BTSA program with high scores

Science Department Lead:

- Planned and facilitated professional development and inquiry cycles for the department
- Department inquiries include: standards-based grading/NGSS, notebooking, academic language supports, and academic discussions
- Coordinated with the district science department around professional development and site goals
- Attend monthly Science Teacher Leader meetings with other science department leaders
- Observe fellow science teachers monthly to provide feedback

Professional Development

Exploratorium Summer Teacher Institute

June-July 2019

- Participated in a 3-week institute focused on implementing NGSS, inquiry-based physical science curriculum
- Attended various workshops focused on implementing physics investigations and engineering into the classroom

- Collaborated with teachers from various districts in California on best practices in teaching high school STEM

Oakland Unified School District Project Based Learning Institute

June 2019

- Created a project-based high school physics unit based on applying kinematics to designing cars to maximize safety during a crash
- Collaborated with teachers at various school sites on project-based learning implementation in the classroom

Project Lead the Way

August 2018-November 2018

- Participated in online training for the Medical Detectives Curriculum
- At the end of the course received a certification in the Medical Detectives Curriculum

Oakland Unified School District NGSS Institute

August 2018

- Determined school site science goals for the 2018-2019 school year
- Participated in workshops on a variety of teaching strategies such as notebooking, reading protocols, and inquiry-based learning

Teach for America

June 2016-June 2018

- Participated in summer institute student teaching and training
- Attended a variety of professional development opportunities focused on classroom management, work-life balance, and wellness
- Worked with a coach to develop cycles of inquiry to improve teaching practice

2017 NSTA Los Angeles National Conference

March 2017

- Attended workshops on a variety of subjects including incorporating engineering into the classroom and teaching evolution through inquiry

Oakland Unified School District Bio 9 Collaborative

January 2017-May 2017

- Met two times per month to collaborate with other biology teachers in the Oakland school district
- Improved the evolution unit of the OUSD biology curriculum
- Participated in lesson studies to improve teaching practice

Teach for America Science Teacher Collaborative

August 2016-May 2017

- Met monthly with other science teachers in the Teach For America program to collaborate
- Attended Professional Development opportunities at the exploratorium and other institutions