

# Dr. Zachary W. Cue, Jr.

[zacharyq@ucla.edu](mailto:zacharyq@ucla.edu)

## EDUCATION

---

### University of California, Los Angeles

Sep 2020

Educational Leadership Program

Degree Earned: Doctor of Education

Dissertation: "Understanding African American High School Students' Attendance Patterns"

Co-Chairs: Dr. Sandra Graham and Dr. Christina Christie

### University of California, Los Angeles

Jun 2009

Teacher Education Program

Degree Earned: Master of Education & Single-Subject Teaching Credential (Biological Sciences)

Thesis: "Using A Novel Caring Pedagogy to Implement Social Justice within the Classroom"

Advisor: Dr. Imelda Nava

### University of California, Los Angeles

Jun 2007

Major: Psychobiology

Degree Earned: Bachelor of Sciences

## PROGRAM ADMINISTRATION AND LEADERSHIP

---

### California Science Project—UCLA Center X

Jul 2021 — Present

DIRECTOR (2024-PRESENT)

- Lead and support Science Project team as we design and administer professional development programs
- Develop relationships with individual school administrators and teachers, within urban schools, to establish a Science Project presence on an ongoing basis
- Develop budgets and proposals for partnership schools to solicit funds for the Science Project
- Manage financial performance and assets (technology, equipment, and space) in accordance with budget and Science Project goals
- Collaborate with local and statewide educational organizations and offices (e.g., County Office of education, and California Science Project offices) and other educational leaders (e.g., Science Project staff, university faculty, and researchers) to develop programs to meet the needs of districts and other partners, as well as to align with state and national Science standards

PROFESSIONAL LEARNING LEAD (2021-2024)

- Design, plan, and administer specific Science professional development programs throughout the year, focused on culturally responsive and three-dimensional science instruction with classroom teachers and school district personnel
- Collaborate with Science Project staff, university faculty, and education researchers to develop programs to meet the needs of districts and other partners, as well as to align with state and national Science standards

### Science Department Chair

Aug 2019 — Jun 2021

ALEXANDER HAMILTON HIGH SCHOOL

- Developed and led instructional development for NGSS implementation and a culturally relevant/sustaining pedagogy
- Collaborated with Administrators and other teacher leaders in Instructional Cabinet to research and develop instructional practices enabling student outcomes as outlined in the School Plan for Student Achievement
- Mentored and acclimated new and first-year science teachers

### Science Instructional Lead

Aug 2017 — Dec 2017

ALICE M. BAXTER COLLEGE-READY HIGH SCHOOL

- Developed and led professional development around project-based learning and NGSS alignment

### **Leading Educators Teaching Fellow**

**Sep 2016 — Jun 2017**

LEADING EDUCATORS MEMPHIS, TN

- In collaboration with community members, planned and executed a data-driven Theory of Action around integrating literacy strategies and complex text in secondary science curricula
- Planned and led cycles of professional learning using the Design Thinking Process

### **Apartment Coordinator Supervisor**

**Jul 2013 — Jun 2014**

UCLA UNIVERSITY APARTMENTS SOUTH (UAS)

- Trained and supervised 26 Apartment Coordinators in UAS emergency maintenance protocols

## **TEACHER EDUCATION AND EXPERIENCE**

---

### **Cal Teach Program—UCLA Chemistry & Biochemistry Dept**

**Jan 2025 – present**

LECTURER

- Design and facilitate around developing research-based and culturally responsive curricula, planning three dimensional and phenomena-based lessons, and completing fieldwork in local Middle Schools for 16 undergraduate science majors (SciEd 10XP)

### **Teacher Education Program—UCLA School of Educ & Info Studies**

**Jul 2021 – Jul 2024**

FACULTY ADVISOR

- Developed and served as advisor during the Master's Autoethnography Inquiry Project (MAIP), a Master's capstone project in which yearly cohorts of 10-16 Residents (in-service secondary science, math, and computer science teachers who are in Year 2 of the program) engage in autoethnography and action research to resolve a problem of practice within their school community (ED420 and ED481)
- Designed and facilitated course work around addressing common problems of practice in secondary instruction, such as classroom management, student engagement, differentiation, assessments, and rigor (ED 420 and ED481)
- Provided field support to yearly cohorts of 10-16 Residents through weekly coaching cycles of classroom observation, lesson planning, and Cognitive Coaching debriefs (ED498)

LECTURER (2021-2023)

- Design and facilitate coursework around developing research-based and culturally responsive curricula, planning three dimensional and phenomena-based lessons, and completing Tasks 1-3 of the California edTPA for 12-16 Novices (pre-service secondary science and computer science teachers in Year 1 of the program) (ED320A)

### **Alexander Hamilton High School—LAUSD**

**Jan 2018 – Jun 2021**

HONORS BIOLOGY/BIOLOGY/ENVIRONMENTAL STUDIES TEACHER

- Designed and implemented NGSS-aligned, phenomenon and project-based, and culturally responsive lessons for 150 9<sup>th</sup> – 11<sup>th</sup> grade students

MATHEMATICS ENGINEERING AND SCIENCE ACHIEVEMENT (MESA) ADVISOR (2020-2021)

- Coordinated STEM activities for enrolled students to engage in the engineer design process
- Judged various student-generated STEM projects at MESA Day

### **Alice M. Baxter College-Ready High School—Alliance Charter**

**Aug 2017 – Dec 2017**

BIOLOGY/HONORS PHYSIOLOGY/CHEMISTRY TEACHER

- Implemented Summit Learning curriculum to develop cognitive skills for 115 9<sup>th</sup> – 12<sup>th</sup> grade students

### **GRAD Academy Memphis—Achievement School District, TN**

**Aug 2015 – Jun 2017**

BIOLOGY TEACHER

- Designed and implemented Biology projects and curriculum for 100-120 9<sup>th</sup> – 11<sup>th</sup> grade scholars
- Attended professional developments on project-based and blended learning through the New Tech Network (2015-2017)

### **West Adams Preparatory High School—LAUSD**

**Sep 2008 – Jun 2015**

## BIOLOGY TEACHER

- Designed and implemented standards-based science lessons for 100-120 9<sup>th</sup> - 12<sup>th</sup> grade students
- Co-taught Special Day Class (Special Education) of 20-30 students (2010-2012)
- Co-led professional developments on inquiry-based learning, caring pedagogy, and culturally embedded curricula (2008-2012)

## STATEWIDE PROGRAMS AND CONFERENCES

---

### American Educational Research Association (AERA)

Apr 2025

CENTERING EQUITY AND COMPUTATIONAL THINKING IN A STATEWIDE STEM COMMUNITY OF PRACTICE (PAPER PRESENTATION)

### California Math, Science & Computer Science Partnership

Sep 2024 - Jun 2025

EQUITY MATRIX COALITION

- Across three phases, collaboratively tested and revised a statewide framework for science education professional development providers to attend to equitable outcomes for their adult participants

### American Educational Research Association (AERA)

Apr 2024

UNDERSTANDING AFRICAN AMERICAN HS STUDENTS' ATTENDANCE PATTERNS (ROUNDTABLE DISCUSSION)

### California Association of Science Educators (CASE)

Oct 2023

ANCESTRY & EVOLUTION: THE MEANING OF RACE (SHORT COURSE)

### Assoc for Supervision & Curriculum Development (ASCD)

Apr 2023

CENTERING TEACHERS IN PROFESSIONAL LEARNING: INCLUSIVE SPACES THAT VALUE AND EMPOWER

### National Science Teacher Association (NSTA)

Mar 2023

CREATING AND MAINTAINING AN EQUITABLE CLASSROOM

HISTORICAL ACCOUNTING OF INJUSTICE IN STEM SPACES

### California Association of Science Educators (CASE)

Oct 2022

ADDRESSING SOCIAL JUSTICE IN STEM SPACES: PERSONAL EXPERIENCES AS DATA (SHORT COURSE)

LEADING CONVERSATIONS AROUND IDENTITY, RACE, BELONGING, AND BIAS IN STEM SPACES

### Culturally Relevant/Sustaining Pedagogy Professional Development

Mar 2021

CA SUBJECT MATTER PROJECT LEAD LEARN STEERING COMMITTEE

- Co-developed and co-facilitated (with CSMP directors and K-12 educators) a two-hour session on how to decolonize curricula and affirm students' culture in their learning spaces
- The CSMP formed the steering committee to address the need for racial justice, especially in academic spaces

### CA NGSS Assessment District Toolkit

Nov 2020

CA NGSS COLLABORATIVE

- Co-developed (with statewide K-12 and university educators and administrators) a toolkit to support assessments designed for the NGSS to be used in districts across the state

## RESEARCH AND MANUSCRIPTS

---

### Exploring the Potential for Regionally Cooling the Earth...

Aug 2024 — Jun 2027

CLIMATE INTERVENTION PROJECT W/UCLA DEPT OF ATMOSPHERIC AND OCEANIC SCIENCES

### Centering Equity and Comp. Thinking in K-12 STEM Spaces

Nov 2021 — May 2023

COMMUNITY OF PRACTICE W/UCB CS EQUITY PROJECT & UCLA STEM+C<sup>3</sup>

### Predation Doesn't Work in Equity

Oct 2022

MANUSCRIPT FOR CA SUBJECT MATTER PROJECT LEADLEARN: CHARTING A COURSE

### A Blueprint for Action for Equitable K-12 Science Education in CA

Jan 2022

BRIEF W/ CA PARTNERSHIP FOR MATH+SCIENCE EDUCATION & EXPLORATORIUM

## **Sustaining an Equitable Online Community for Sensemaking**

BRIEF W/ UCLA SCIENCE PROJECT

**Jan 2021**

### **CERTIFICATION AND AWARDS**

---

#### **Who's Who in American Education**

MARQUIS PUBLICATIONS

**Jun 2025**

#### **Cognitive Coaching Foundations**

UCLA CENTER X

**May 2023**

#### **California Secondary Science Teacher Leader Network**

EXPLORATORIUM TEACHER INSTITUTE

**Jul 2020**

#### **Future Ready Certification**

LAUSD

**Jun 2020**

#### **National Board Certification**

ADOLESCENCE & YOUNG ADULTHOOD SCIENCE

**Nov 2014**

#### **Noyce Scholar**

NATIONAL SCIENCE FOUNDATION

**Sep 2007**