

# Tejvir K. Grewall

## EDUCATION

Ph. D. Science, Technology, Engineering and Mathematics Education  
University of Nevada, Reno (2023)

M.A.Ed Curriculum and Instruction  
Urban Teacher Residency Program  
California State University Dominguez Hills (2012)

B.A. Global and International Studies: Cultural Ideologies of South/East Asia  
University of California, Santa Barbara (2007)

B.A. Art Studio  
University of California, Santa Barbara (2007)

## AREAS OF SPECIALIZATION

- Teacher education and student learning
- Secondary mathematics instruction
- Secondary visual arts instruction
- STEM/STEAM education
- Culturally responsive pedagogy
- Curriculum development and support
- Educational media in radio broadcasting
- Design, teach, assess students and teachers
- Service in high-need, low-income communities

## LANGUAGES

- English, Spanish, Punjabi, Hindi

## CERTIFICATIONS

- Grant Writing and Administration – California State University Dominguez Hills
- Collaborative Institutional Training Initiative: Human Research
- California Single Subject Teaching Credential, Mathematics
- California Single Subject Teaching Credential, 2-D, 3-D Art
- California Subject Examinations for Teachers: I, II, III
- California Basic Educational Skills Test
- Equitable Education for African American Scholars: The Struggle Continues (LAUSD project #55-14-1070)

## PROFESSIONAL EXPERIENCE

**Mathematics Coach**, *UCLA Mathematics Project at Center X* (2023 - 2025)

- Provide professional development for administrators, teachers and parents
- Math Identity Partnership (MIP) with Los Angeles Unified School District
- Provide coaching support in cadre learning labs with follow-up debriefing sessions
- Design and plan curricula for our One Day Workshops and summer Open Institute for teachers and students

**Instructor**, *University of Nevada, Reno* (2021-2022)

- EDU 202: Introduction to Teaching Secondary (English, History, Art, Music majors)

**Teaching/Graduate Assistant, *University of Nevada, Reno* (2019 – 2023)**

- EDEL 433/633 Teaching PK-8 Math Methods
- EDEL 453 Teaching PK-8 Social Studies Methods
- EDEL 473 Teaching Secondary Social Studies Methods
- EDUC 447/647 Parent Involvement and Family Engagement
- NVTC 201 Knowing and Learning in Mathematics and Science
- Secondary education practicum: classroom observations, develop reports
- Facilitate campus tours for STEM Ed department visitors (professor candidates)
- Assessment, evaluation of student work, student engagement, support critical thinking
- Administrative: data entry, create and organize electronic files of hard copy research data

**Research Assistant, *University of Southern California* (2019)**

- Assist Math Education professor, Dr. Yasemin Copur-Gencturk
- Collaborate, discuss and develop codes, code responses, data analysis, literature review
- In-service middle school teachers' conceptual knowledge of fraction addition and fraction division

**Mathematics Coach, *Alliance College-Ready Public Schools, Watts, CA* (2018-2019)**

- Roles: administrator, proctor, academic coach, assessment coordinator, data analyst
- Attend and provide professional development (department, district office, conferences)
- Review teacher lesson plan alignment to standards for developing of rigor
- Observe instruction, provide feedback and action steps for growth

**Visual Arts Teacher, *Los Angeles Unified School District* (2016 – 2018)**

- Advertising Design, Design Craft A/B
- Paint, draw, journal, measure, scale, randomize, narration development, cultural consciousness
- Synthesize academic language, creative development of design and organization concepts
- Collaborate with principal on budgeted funds to start and develop a visual arts program

**Mathematics Teacher, *Los Angeles Unified School District* (2012 – 2016)**

- Math Tutorial, Algebra 1, Geometry, Algebra 2, Trigonometry, Pre-Calculus, Calculus
- Reading Apprenticeship Improving Secondary Education (R.A.I.S.E.) Literacy program
- Linked-Learning: Student preparation for college, career, real world experiences, civic life
- Project based learning curriculum development
- Curriculum Selection Committee member
- Vice-Chair of School Site Council

**Lead Teacher, *California State University Transition to Teaching Lab School* (2015)**

- Lead and support pre-service math teachers in a summer school program
- Support with classroom management strategies and curriculum development
- Attend leadership meetings for professional development for solution-oriented growth

**Common Core Math Lead, *Partnership Los Angeles Schools* (2013-2014)**

- Attend and provide professional development (from the district to our math department)
- Support teacher transition to Common Core State Standards from California State Standards

## PUBLICATIONS

**Grewall, T.** & Makaiau, A. (Editor). (2023, September). Experimenting with a decolonizing education: Pwo pedagogy. *Hanahau'oli School Progressive Education*. <http://www.hanahauoli.org/pdc-blogposts/2023/19>

**Grewall, T.** (2023). *Sixth grade students' mathematical understandings of fraction division with an Ethnomathematics/STEM framework*. (Publication No. 30491210) [Doctoral dissertation, University of Nevada, Reno]. ProQuest Dissertations and Theses Global.

Goyer, A., **Grewall, T.**, Gil, S., & Lamberg, T. (2022, November). *Elementary teachers' shift from arithmetic to functional thinking through professional development*. North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA 43): Critical Dissonance and Resonant Harmony, Nashville, Tennessee.

**Grewall, T.**, & Toledo, W. (2022). Design-based research: The importance of inquiry, collaboration, and innovation in social studies education [Review of the book *Design research in social studies education: Critical lessons from an emerging field*, edited by Beth C. Rubin, Eric B. Freedman, & Jongsung Kim], New York, Routledge, 2019. *Theory and Research in Social Education*, 50(1), 167-71.

## PRESENTATIONS

**Grewall, T.** (2024). Ethnomathematics/STEM lessons from Hawai'i and Cuba: Supports for developing mathematical understandings of fraction division. Accepted paper for *American Education Research Association* regional conference for Learning and Instruction: Mathematics. Philadelphia, Pennsylvania.

**Grewall, T.** (2023, November). *Ethnomathematics Today – Lessons from Hawai'i and Cuba*. Invited speaker (\$250 honorarium) for University of California Los Angeles, Department of History course on decolonization in the Afro Atlantic Caribbean from Marronage to Black Radicalism.

Lamberg, T., **Grewall, T.**, Goyer, A., & Gil, S. (2021, October 15). *Mathematical knowledge for teaching: Representing proportional reasoning algebraically to problem solve*. North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA 43): Productive struggle: Persevering through challenges, Philadelphia, Pennsylvania.

**Grewall, T.**, Gill, S., Goyer, A., Koyen, L., & Lamberg, T. (2020, March). *Shifts in teachers' ability to model and solve an algebraic equation*. Poster presentation at the annual meeting of the Research Council on Mathematics Learning, Las Vegas, NV.

Brown, K. & **Grewall, T.** (2015, November) *Adinkra symbols: Cultural relevance and transformational geometry*. Presentation at annual meeting of the California Mathematics Council- South, Palm Springs, CA.

## ACKNOWLEDGEMENTS

Rosa, M., & Orey, D. C. (2024). Contributions of the Pedagogical Action of Ethnomodelling to STEM Education. In *The Contribution of Mathematics to School STEM Education: Current Understandings* (pp. 277-293). Singapore: Springer Nature Singapore.

Fujino, D., & Harmachis, M. (Eds.). (2020). *Black Power Afterlives: The Enduring Significance of the Black Panther Party*. Haymarket Books.

Jefferson, A. J. (2013, June). *Ocean Lover Nick Gabaldón and the Historical African American Beach Gathering Place from Another Era in Santa Monica, Honored on June 1, 2013*, <https://alisonrosejefferson.com>.

Fulbeck, K. (2010). *Part Asian, 100% Hapa*. Chronicle Books.

## AWARDS AND RECOGNITION

### **Graduate Student Travel and Research Grant, *University of Nevada, Reno***

- Fall 2022. \$500 Graduate Student Association Travel Grant (NCTM 2022 conference)
- Spring 2022. \$500 Graduate Student Association Travel Grant (AERA 2022 conference)
- Spring 2021. \$2,500 to attend the 14th International Congress on Mathematics Education, and to conduct research and work with the Polynesian Voyaging Society in Maui, Hawaii.

### **Scholarship recipient, *Moss Family Award in Graduate Elementary Math Education* (2020)**

- \$1,000 for outstanding graduate student in Elementary Math Education

### **Arts Educator, *United States Congressional Recognition* (2017)**

- CA congresswoman Karen Bass recognition award for arts educators in the 37<sup>th</sup> congressional district

### **Scholarship recipient, *Women's National Charity League* (1998)**

- \$2,000 for volunteerism with South Asian diasporic community

## SERVICE

### **Reviewer, *American Educational Research Association (AERA)***

- 2024-2026 conference proposals for Math Education Learning and Instruction

### **Reviewer, *North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)***

- 2023 conference proposals for the theme “Engaging All Learners”

### **Team Member, *Nevada Math Project* (2019 – 2022)**

- Data analysis, review of literature, presentation of findings
- In-service teachers conceptual understanding of proportional reasoning, fraction division