

Katie Paulding

Curriculum Vitae

California Polytechnic State University, San Luis Obispo
School of Education
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EDUCATION

- Ed.D. Curriculum and Instruction, Boise State University, August 2019
Cognate: Mathematics Education
Dissertation: INFLUENCE OF TAPE DIAGRAMS AND BAR MODELS ON
MIDDLE SCHOOL STUDENTS' PROPORTIONAL REASONING
- M.A. Education, Brandman University, October 2011
Emphasis: Teaching and Learning
- B.S. Liberal Studies, California Polytechnic State University, San Luis Obispo, June 2004

SCHOLARLY ACTIVITY

PUBLICATIONS

Refereed Journal Articles

Jensen, J. & Paulding, K. (2025). Rehearsing to develop student reasoning: Pre-service teachers' mathematical questioning through Number Talks. *Mathematics Education Research and Practice*. (28)2, 217-231.

Guisse, M., Ambroso, E., Paulding, K., Moore, C., & Hegg, S. (2022). Preservice teacher reflection on coteaching implementation: Are we meeting the benchmarks? *Journal of Teacher Education*, 00224871221105807.

Carney, M., Paulding, K., & Champion, J. (2022). Efficient assessment of students' proportional reasoning. *Applied Measurement in Education*, 1-17.

Conference Proceedings

Schinck-Mikel, A., Paulding, K., & Medina, E. (2023). Capturing unique teaching experiences of first-year secondary mathematics teachers transitioning from virtual to in-person instruction. Education and New Developments. Lisbon, Portugal. <https://doi.org/10.36315/2023v1end021>

Carney, M., & Paulding, K. (2018). *Response process validity evidence: A proportional reasoning example*. In 42nd Annual Meeting of the International Group for the Psychology of Mathematics Education. Umea, Sweden: International Group for the Psychology of Mathematics Education.

Scholarly Presentations

Schinck-Mikel, A., & Paulding, K. (2023, June 24-26). Capturing unique teaching experiences of first-year secondary mathematics teachers transitioning from virtual to in-person instruction. [Conference session]. Education and New Developments. Lisbon, Portugal.

Schinck-Mikel, A., & Paulding, K. (2022, February 10-12). *Lessons from the pandemic: Leveraging unique teaching experiences to inform mathematics secondary clinical practice* [Conference session]. Twenty-Sixth Annual Conference of the Association of Mathematics Teacher Educators. Henderson, NV.

Guisse, M., Ambroso, E., & Paulding, K. (2021). *Pre-service teacher reflection on coteaching implementation: Are we meeting the benchmarks?* Paper presented at the National Conference on Co-Teaching. Bloomington, MN.

Paulding, K. (2018). *Proportional reasoning in middle school*. Poster presented at the 2018 Graduate Student Showcase, Boise State University, Boise, ID.

Carney, M. B., Paulding, K., & Crawford, A. (2017). *Eliciting students' conceptions of the functional relationship*. Paper presented at the National Council of Teachers of Mathematics 2017 Research Conference. San Antonio, TX.

TEACHING EXPERIENCE

California Polytechnic State University, San Luis Obispo

2021 Lecturer, Liberal Studies Department, California Polytechnic State University, San Luis Obispo

 Liberal Studies Career Preparation (Spring 2021)

2020-present Lecturer, School of Education, California Polytechnic State University, San Luis Obispo

 Culturally Responsive Teaching in Diverse Classrooms (Summer 2022, Summer 2021)

 Educational Research Methods (Winter 2025, Winter 2024, Winter 2023)

 Historical, Philosophical, and Social Foundations of Education (Fall 2025,

 Spring 2024, Winter 2024, Spring 2023, Winter 2023, Fall 2022, Winter 2022, Spring 2021, Winter 2021, Fall 2020)

 Introduction to Inquiry in Education (Fall 2025, Fall 2024, Fall 2023)

Learning to Teach K-8 Mathematics with Diverse Populations (Winter 2025, Fall 2024, Fall 2023)

Grader: Fall 2025, Fall 2022, Winter 2022, Fall 2021

TIER Early Summer Start Session (Summer 2024, Summer 2023, Summer 2022)

Theories, Methods, and Assessment of First and Second Language Acquisition in Schools (Fall 2025, Winter 2025, Fall 2024, Summer 2024, Spring 2024, Winter 2024, Summer 2023, Spring 2023, Winter 2023, Fall 2022, Summer 2022, Spring 2022, Winter 2022, Fall 2021)

Advisor, Master of Arts in Curriculum and Instruction, School of Education, California Polytechnic State University, San Luis Obispo (Summer 2025, Spring 2025, Spring 2022, Summer 2022, Spring 2021, Summer 2021)

2019-present University Supervisor for Teacher Candidates, School of Education, California Polytechnic State University, San Luis Obispo

Multiple Subject Teacher Education Preparation Program (MSTEP)

Single Subject (Mathematics) Teacher Education Preparation Program (SSTEP)

Spanish Authorization for Bilingual Educators Program (SABE)

Teaching for Inclusivity and Equity Residency Program (TIER)

Grand Canyon University

2020-2022 Faculty Supervisor for Teacher Candidates, Grand Canyon University

Secondary Education: Mathematics

Secondary Education: Special Education

Elementary Education

Boise State University

2018 Co-Teacher, IDoTeach Secondary STEM Education, Boise State University

STEM-ED 101 Step 1: Inquiry Approaches to Teaching

Santa Maria-Bonita School District

2014-2016 Teacher on Special Assignment, Curriculum and Instruction, Santa Maria-Bonita School District, Santa Maria, CA

Planning and Implementation of District-wide Professional Development

Secondary Mathematics

First and Second Grade Mathematics and Science

TK-6 English Language Arts and English Language Development

Dual Language Immersion

Development of District-wide Grade Level Assessments

2004-2014 Mathematics Teacher, El Camino Junior High, Santa Maria, CA

Pre-Algebra Readiness

Pre-Algebra
Algebra

- 2010-2013 Mathematics Teacher for Migrant Summer School
- 2010-2012 Cooperating Teacher for three Teacher Candidates
California Polytechnic State University, San Luis Obispo
Brandman University, Santa Maria
- 2004-2005 Mathematics Teacher for Winter Intersession

SERVICE TO PROFESSION

- Program Reviewer, Association of Mathematics Teacher Educators (AMTE) (2021)
- Advisor, Master of Arts in Teaching English to Speakers of Other Languages (TESOL), Grand Canyon University (2021)
- Committee Member, Coastal Christian School, Pismo Beach, CA
Literature Review Committee (2018-2020)
Education Committee (2018-2020)
COVID-19 School Planning Committee (2020)
- Presenter for In-Service Teacher Training, Coastal Christian School, Pismo Beach, CA
Number Talks for Coastal Christian School. (2016). Presentation given at Coastal Christian School. Pismo Beach, CA.

DEPARTMENTAL SERVICE

- Committee Member, School of Education, California Polytechnic State University, San Luis Obispo
Commencement Planning Committee (2025-present)
Curriculum and Instruction PLO Assessment Committee (2024-present)
Ed Prep Advisory Committee (2024-present)
Literacy Standards Integration Committee (2023-present)
Dyslexia Standards Integration Committee (2023)
CT/TC Workshop Planning Committee (2021-2022)
Educational Newsletter Committee (2020-present)
Equity and Inclusion Committee (2020-2022)
Celebration of Teaching (COT) Committee (2020-present)
COVID-19 Spring Planning for Teacher Candidate Supervision Committee (2020)
Technology Video Tutorial (TVT) Committee (2020)

LEADERSHIP SKILLS

- 2022-2024 Associate Project Director, STEM Teacher Education and School Strengthening Activity (STESSA) Grant, 21PSTEM, Physics Department, California Polytechnic State University, San Luis Obispo
- 2021 Mentor for New University Supervisors, School of Education, California Polytechnic State University, San Luis Obispo
- 2014-2016 Teacher on Special Assignment, Curriculum and Instruction, Santa Maria-Bonita School District, Santa Maria, CA
- Common Core Professional Development Committee Participant, Santa Maria-Bonita School District, Santa Maria, CA
- 2015-2016 Mentor Teacher for the Teacher Induction Program, Santa Barbara County Office of Education
- 2014-2015 Dual Language Immersion Task Force Member, Santa Maria-Bonita School District, Santa Maria, CA
- Underwriter, Dual Language Immersion Master Plan for Roberto and Dr. Francisco Jiménez Elementary School
- 2013-2014 Department Chair, Mathematics, El Camino Junior High, Santa Maria, CA
- Site Leadership Team Participant, El Camino Junior High, Santa Maria, CA

TEACHING CREDENTIALS

- 2019 Mathematics Consulting Teacher Endorsement Graduate Certificate, Boise State University
- 2006 California Professional Clear Multiple Subject Bilingual Teaching Credential, Santa Barbara County Office of Education
- Subject Authorization: BCLAD: Spanish
- Subject Authorization: Mathematics
- Subject Authorization: Spanish
- Subject Authorization: General Subjects
- 2004 Multiple Subject Bilingual Teaching Credential (BCLAD)
- California Polytechnic State University, San Luis Obispo
- Supplemental Authorization: Mathematics
- Supplemental Authorization: Spanish

RELATED PROFESSIONAL SKILLS

- 2025 Quality Matters
 Assessing Your Learners
- CSU Online Course Services QLT
 AI Tools For Teaching & Learning (For Faculty/Lecturers)
- Center for Teaching, Learning, & Technology (CTLT)
 Improving your Course Accessibility with TidyUP and Ally
- 2021 Center for Teaching, Learning, & Technology (CTLT)
 Blended Course Design
- 2020 California State University Quality Learning and Teaching (QLT) Q1 Certification
 Introduction to Online Teaching and Learning
 Creating Accessible Course Materials

AWARDS

- 2023 Outstanding Educator Award. Awarded by School of Education, California Polytechnic State University
- 2018 Graduate Student Showcase Award Winner. Awarded by the College of Education, Boise State University
- 2008 Angel in Education. Awarded by the Kiwanis Club of Santa Maria

LANGUAGES

- English Native Language
- Spanish Proficient in Speaking, Reading, and Writing

PROFESSIONAL MEMBERSHIPS

- Association of Mathematics Teacher Educators (AMTE)
- Diversity Coalition San Luis Obispo County
- National Council of Teachers of Mathematics (NCTM)