Cathrine Maiorca

Assistant Professor of Mathematics Education
California State University, Long Beach — Long Beach, CA
Department of Teacher Education — cemaiorca@icloud.com

ACADEMIC BACKGROUND

2011-2016 **Ph.D. Curriculum and Instruction**
University of Nevada, Las Vegas
Las Vegas, NV
Specialization: Mathematics Education
Dissertation Title: *A Case Study: Students' Mathematics-Related Beliefs from Integrated STEM Model-Eliciting Activities*
Committee: Dr. Micah Stohlmann and Jeff Shih (co-chairs), Dr. Travis Olson, Dr. Alice Corkill and Dr. Jori Beck

2008-2011 **Master of Arts in Secondary Education**
Sierra Nevada College
Henderson, NV

2000-2003 **Graduate Studies**
Mathematical Statistics
Portland State University
Portland, OR

1993-1997 **Bachelor of Arts in Mathematics and Music**
Austin College
Sherman, TX

LICENSING AND CERTIFICATION

- Nevada Secondary Mathematics, 7-12 (expired)
- Texas Secondary Mathematics, 8-12 (inactive)

PROFESSIONAL WORK EXPERIENCE

California State University, Long Beach
Long Beach, CA
8/2016 – present Assistant Professor of Elementary Mathematics Education

University of Nevada, Las Vegas
Las Vegas, NV
June 2016 University Supervisor

8/2012 – 5/2016 Graduate Research Assistant and Graduate Teaching Assistant

Florida State University
Tallahassee, FL
2013-2014 Model-Eliciting Activity Reviewer

Clark County School District
Las Vegas, NV
2008-2012 Highschool Mathematics Teacher

Allen Independent School District
Allen, TX Highschool Mathematics Teacher
2005-2007

Desoto Independent School District
Desoto, TX Highschool Mathematics Teacher
2004-2005

Tacoma Community College
Tacoma, WA
2003-2004 Part Time Instructor of Mathematics

Pierce County Community College
Puyallup, WA
2003-2004 Part Time Instructor of Mathematics and Statistics

Portland State University
Portland, OR
2000-2003 Graduate Teaching Assistant
2002-2003 Mathematics and Statistics Lecturer

San Francisco Independent School District
San Francisco, CA Highschool Mathematics Teacher
1999-2000

HONORS

- 2018 AMTE STaR Fellow
- 2020 School Science and Mathematics Association Early Career Scholar Award
- 2021 California State University College of Education Research Award

PUBLICATIONS

Peer Reviewed Journal Articles

Bush, S. B., *Edelen, D., Roberts, T., **Maiorca, C.,** Ivy, J. T., Cook, K. L., Tripp, L. O. Burton, M., Alameh, S., Jackson, C., Mohr-Schroeder, M. J., Schroeder, D. C., *McCurdy, R. P., Cox Jr., R. (under review). *Humanizing STE(A)M instruction through empathy leveraging Design thinking to improve society.* Science and Education

Cook, K., Alameh, S., Tripp, O. **Maiorca, C.**, Schroeder, C., & Mohr-Schroder, M. (2021). Five Practices for Effective and Equitable Discourse: An Example from a Virtual STEM Experience. *Connected Science*.

Jackson, C., Mohr-Schroeder, M. J., Bush, S., **Maiorca, C.**, Roberts, O. T., (2021). Toward an equity-based STEM literacy conceptual framework.

Maiorca, C. (2021). GPS: Using Engineering Design Problems to Promote *Mathematical Problem Solving. Mathematics Teacher: Learning and Teaching PK-12*, 114 (2), p. 154 -158)

Maiorca, C., & Mohr-Schroeder, M. (2020). Elementary preservice teachers' integration of engineering into STEM lesson plans. *School Science and Mathematics*. DOI: 10.1111/ssm.12433

Maiorca, C., Roberts, T., Jackson, C. Bush, S. Delaney, A. Mohr-Schroeder, M. Yao, S. (2020). Informal Learning Environments and Impact on Interest in STEM Careers. *International Journal of Science and Mathematics Education*. DOI 10.1007/s10763-019-10038-9

Mohr-Schroeder, M., Bush, S., **Maiorca, C.**, Nickels, M. (2020). STEM literacy. *Handbook of Research on STEM Education*. C. Johnson, M. Mohr-Schroeder, T. Moore & L. English (Eds). New York, NY: Routledge/Taylor & Francis. (editor reviewed)

Maiorca, C., & Stohlmann, M., & Driessen, E. (2019). Getting to the bottom of the truth: STEM shortage OR STEM surplus? Sahin, A., & Mohr-Schroeder, M. J. (Eds). *Myths and Truths: What has years of K-12 STEM education research taught us?* Brill Publishing.

Roberts, T., **Maiorca, C.**, & Chapman, P. (2019). Equitably engaging all students in STEM. *The Elementary STEM Journal* (23)4, 30–33.

Shih, J., Ing, M., Phelan, J., Brown, R. & **Maiorca, C.** (2019). *The Influence of Students' Self-Perceptions and Mathematics Experiences on Learning More Mathematics in the Future*. Investigations in Mathematics Learning. doi.org/10.1080/19477503.2019.1582960

Roberts, T., Jackson, C., Mohr-Schroeder, M., Bush, S., **Maiorca, C.**, Cavalcanti, M., Schroeder, C., Delaney, A., Putnam, L., & Cremeans, C. (2018). Students' perceptions of STEM learning after participating in a summer informal learning experience. *International Journal of STEM Education*. https://doi.org/10.1186/s40594-018-0133-4

Stohlmann, M., **Maiorca, C**., & DeVaul, L. (2017). Elementary teachers' engineering design activities from a state without engineering standards. *Science Educator, 26*(1), 1-12.

Stohlmann, M., **Maiorca, C**., & Allen, C. (2017). A case study of teachers' development of well-structured mathematical modeling activities. *Mathematics Teacher Education and Development. 19*(2), 4-24

Stohlmann, M., **Maiorca, C.**, & Olson, T. (2015). Preservice secondary teachers' conceptions from a mathematical modeling activity and connections to the Common Core State Standards. *The Mathematics Educator Journal.*

Stohlmann, M., Cramer, K., Moore, T., & **Maiorca, C.** (2014). Changing preservice elementary teachers' beliefs about mathematical knowledge. *Mathematics Teacher Education and Development*, *16*(2), 4-24.

Book Chapters

Mohr-Schroeder, M., Bush, S., **Maiorca, C.**, Nickels, M. (2020). STEM literacy. *Handbook of Research on STEM Education*. C. Johnson, M. Mohr-Schroeder, T. Moore & L. English (Eds). New York, NY: Routledge/Taylor & Francis.

Maiorca, C., & Stohlmann, M., & Driessen, E. (2019). Getting to the bottom of the truth: STEM shortage OR STEM surplus?. Sahin, A., & Mohr-Schroeder, M. J. (Eds). *Myths and Truths: What has years of K-12 STEM education research taught us?* Brill Publishing.

Maiorca, C., & Stohlmann, M. (2016). Inspiring students in STEM education through modeling activities. *Annual Perspectives in Mathematics Education 2016: Mathematical Modeling and Modeling Mathematics*. Reston, VA.

Conference Proceedings and Papers

Burton. M, Tripp, O., **Maiorca, C.**, Roberts, T. & Ivy, J. (2021). Lesson learned from teaching STEM in a virtual environment: A self-study. International Symposium of Elementary Mathematics Teaching:

Maiorca, C., & Roberts, T. (2020). *Examining preservice teachers' STEM dispositions through informal STEM learning.* Conference Proceedings Annual Meeting of the Research Council on Mathematics Learning: Las Vegas, NV.

Roberts, T., & **Maiorca, C.** (2020). *Exploring positive shifts in preservice elementary teachers' conceptions of mathematics.* Conference Proceedings Annual Meeting of the Research Council on Mathematics Learning: Las Vegas, NV.

Roberts, T., Jackson, C., Mohr-Schroeder, M., Bush, S., **Maiorca, C.**, & Delaney, A. (2019). *Exploring applications of school mathematics: Students' perceptions of informal learning experiences*. North American Chapter of the International Group for the Psychology of Mathematics Education. St. Louis, MO.

Maiorca, C., & Roberts, T. (2018). Informal STEM Learning Changing Preservice Teachers' beliefs. In J. N. Thomas & M. J. Mohr-Schroeder (Eds.), *Proceedings of the 117th annual convention of the School Science and Mathematics Association* (Vol. 4).

Maiorca, C., & Stohlmann, M. (2017). The Impact of an Integrated STEM After-School Program on Elementary Students' Beliefs About the Role of the Teacher. Proceedings of the 16th annual Hawaii International Conference on Education.

Conference Presentations

Burton, M., Tripp, L. O., **Maiorca, C.**, Roberts, T., & Ivy, J. (2021). Lessons learned from teaching STEM in a virtual environment: A self-study. In J. Novotna & H. Moraova (*Eds.), Proceedings of the International Symposium of Elementary Mathematics Teaching: Broadening Experiences in Elementary School Mathematics*. (pp. *129-138*). Prague, the Czech Republic. Hybrid

Roberts, T., Roberts, A. C., & **Maiorca, C.** (2021). *A mixed methods exploration of first year inclusive preservice teachers' conceptions of teaching mathematics*. Paper presented at the 2021 American Educational Research Association Conference. Virtual.

Jackson, C., Mohr-Schroeder, M. J., Roberts, T., & **Maiorca, C**. (2021). *Students' perceptions of mathematics and science*. Roundtable session at the 2021 American Educational Research Association Conference. Virtual.

Benken, B., & **Maiorca, C.** (2021) Using Integrated STEM as a Context to Teach Mathematics: Expanding Prospective Elementary Teachers' Dispositions. Annual Meeting of Association of Mathematics Teacher Educators. Virtual

Maiorca, C., & Roberts, T. (2021). Integrating STEM in elementary classrooms with MEAs. Annual Meeting of the International Technology Engineering Educators Association. Virtual

Roberts, T., & **Maiorca, C**. (2021). Leveraging informal learning to engage underrepresented populations. Annual Meeting of the International Technology Engineering Educators Association. Virtual

Maiorca, C., Roberts, T., Jackson, C., & Mohr-Schroeder, M. (2020) Informal STEM learning: Expanding students' perceptions of Mathematics. Annual Meeting of the Research Council on Mathematics Learning. Virtual

Maiorca, C., & Benken, B. (2021). Preservice Dispositions towards using Integrated STEM to Teach Mathematics**.** Annual Meeting of the Research Council on Mathematics Learning. Virtual

Maiorca, C., & Benken, B. (2020). *Using Integrated STEM to Teach Math in a Virtual World*. California STEAM Symposium. Virtual

Maiorca, C., Roberts, T., Jackson, C. Bush, S., & Mohr-Schroeder, M. (2020). Raising STEM career awareness through informal STEM experiences. Annual Meeting of the School Science and Mathematics Association. Virtual.

Maiorca, C., & Mohr-Schroder, M. (2020). The Integration of Engineering in Integrated STEM Lesson Plans by Elementary Pre-service Teachers. Annual Meeting of the School Science and Mathematics Association. Virtual.

Roberts, T., & **Maiorca, C.** (2020). *Leveraging informal learning to engage underrepresented populations*. Annual Meeting of the International Technology Engineering Educators Association. Baltimore, MD. (canceled due to COVD)

Maiorca, C., & Roberts, T. (2020). *Integrating STEM in elementary classrooms with MEAs*. Annual Meeting of the International Technology Engineering Educators Association. Baltimore, MD. (canceled due to COVD)

Maiorca, C., & Roberts, T. (2020). *Examining preservice teachers' STEM dispositions through informal learning*. Annual Meeting of the Research Council on Mathematics Learning. Las Vegas, NV.

Roberts, T., & **Maiorca, C.** (2020). Influencing preservice teachers' mathematics knowledge and conceptions. Annual Meeting of the Research Council on Mathematics Learning. Las Vegas, NV

Benken, B. & **Maiorca, C.** (2019). *Expanding Elementary Preservice Teachers' Dispositions Towards Teaching STEM.* Fall Conference on California Council on Teacher Education. San Diego, CA.

Maiorca, C., & Benken B. (2019). *Integrating STEM into an Elementary Mathematics Methods Course to Expand Dispositions Towards Teaching STEM*. Poster presented at the National STEM Summit. Raleigh, NC.

Maiorca, C., & Benken, B. (2019). *Expanding Dispositions by Using Integrated STEM Unit in Elementary Methods.* Poster presented at the National Council of Teachers of Mathematics Research Conference. San Diego, CA.

Roberts, T., Jackson, C., Mohr-Schroeder, M., Bush, S., **Maiorca, C.**, & Delaney, A. (2019). *Exploring applications of school mathematics: Students' perceptions of informal learning experiences*. Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. St. Louis, MO.

Roberts, T., Jackson, C., Mohr-Schroeder, M., Bush, S., **Maiorca, C.**, Cavalcanti, M., Schroeder, C., Delaney, A., Putnam, L., & Cremeans, C. (2019). Students' perceptions of STEM learning after participating in an informal learning experience. Annual Meeting of the School Science and Mathematics Association. Salt Lake City, UT.

Maiorca, C., & Roberts, T. (2019). *Learning to teach STEM by participating in informal learning environments.* Annual Meeting of the School Science and Mathematics Association Salt Lake City, Utah. 2019.

Roberts, T., & **Maiorca, C.** (2019). *The Struggle Is Real: Addressing Gaps in Preservice Teacher Knowledge.* Annual Meeting of the Research Council on Mathematics Learning: Charlotte, NC.

Benken, B. M., & **Maiorca, C.** (2018). *Using integrated math and science standards-based lessons to enhance preservice elementary teachers' understandings and confidence*. Research presentation at the Annual California STEAM Symposium, Long Beach, CA.

Maiorca, C., & Roberts, T. (2018). Informal STEM Learning Changing Preservice Teachers' beliefs. Annual Meeting of the School Science and Mathematics Association. Little Rock AR.

Schroeder, C., **Maiorca, C**., Jackson, C., Roberts, T., Delaney, A., Bush, S., Cavalcanti, M. & Mohr-Schroeder, M. (2018). Motivating and Inspiring Elementary and Middle-Level Students' Interest in STEM. Annual Meeting of the School Science and Mathematics Association. Little Rock, AR.

Jackson, C., Cavalcanti, M., Dueber, D., **Maiorca, C**., Roberts, T., Delaney, A., Bush, S., Schroeder, C. (2018). Operationalizing Equity-Based STEM Literacy in Designing Quantitative Survey. Annual Meeting of the School Science and Mathematics Association. Little Rock, AR.

Cavalcanti, C., Mohr-Schroeder, M. Jackson, C., **Maiorca, C.,** Delaney, A., & Roberts, T. (2018). Going beyond the framework: Operationalizing an equity framework in

designing quantitative survey. Annual Meeting of the Association of Mathematics Teacher Educators. Houston TX.

Mohr-Schroeder, M., Jackson, C., **Maiorca, C.**, Roberts, T., Delaney A., & Schroeder, D. (2017). An equitable approach to a STEM Literacy Framework: Results of a Pilot. Annual Meeting of the School Science and Mathematics Association. Lexington, KY.

Maiorca, C., & Olson, T. (2016). The implicit and explicit mathematics in integrated STEM activities. Annual Meeting of the School Science and Mathematics Association. Phoenix, AZ.

Maiorca, C., & Olson, T. (2016). The implicit and explicit mathematics in integrated STEM activities. Annual Meeting of the School Science and Mathematics Association. Phoenix, AZ.

Maiorca, C., & Stohlmann, M. (2016). Integrated STEM and Model-Eliciting Activities: Making math more engaging. Annual Meeting of the National Council of Teachers of Mathematics. San Francisco, CA

Maiorca, C. (2016). The Elephant in the Room: Students' Mathematics-Related Beliefs. Annual Meeting of the Research Council on Mathematics Learning. Orlando, FL.

Maiorca, C. & Olson, T. (2015). Making mathematics more relevant through integrated STEM. Annual Meeting of the National Council of Teachers of Mathematics. Boston, MA.

Stohlmann, M. & **Maiorca, C.** (2015). Mathematical modeling: A model approach to keep students engaged. Annual Meeting of the National Council of Teachers of Mathematics. Boston, MA.

Maiorca, C. & Olson, T. (2015). Investigations into teachers' perspectives on mathematical modeling. Annual Meeting of the Research Council on Mathematics Learning. Las Vegas, NV.

Maiorca, C. (2015). Students' mathematics-related beliefs and STEM model-eliciting activities. Annual Meeting of the Research Council on Mathematics Learning. Las Vegas, NV.

Stohlmann, M., Allen, C. & **Maiorca, C.** (2015). *A case study of teachers' development of well-structured mathematical modeling activities*. Hawaii International Conference on Education. Honolulu, HI.

Stohlmann, M., **Maiorca, C.**, & Olson, T. (2014). *The mathematics of hotel/casino management*. Annual Meeting of the National Council of Teachers of Mathematics. New Orleans, LA.

Maiorca, C., & Stohlmann, M. (2014). *The how and why of integrated STEM model-eliciting activities.* Annual Meeting of the National Council of Teachers of Mathematics. New Orleans, LA.

Stohlmann, M., Cramer, K., Moore, T., & **Maiorca, C**. (2013). *Changing preservice elementary teachers' beliefs through models of students' thinking about fraction division.* Poster presented at the National Council of Teachers of Mathematics Research Pre-session. Denver, CO.

Stohlmann, M. & **Maiorca, C.** (2013). *It's not STEM without the M.* Southern Nevada Math and Science Annual Conference. Las Vegas, NV.

Poster Sessions

Benken, B. & **Maiorca, C.** (2021). *Using Integrated STEM as a Context for to Teach Mathematic and Expand Prospective Teachers' Dispositions*. Fall Conference on California Council on Teacher Education. San Diego, CA.

Benken, B. & **Maiorca, C.** (2019). *Expanding Elementary Preservice Teachers' Dispositions Towards Teaching STEM.* Fall Conference on California Council on Teacher Education. San Diego, CA.

Maiorca, C., & Benken B. (2019). *Integrating STEM into an Elementary Mathematics Methods Course to Expand Dispositions Towards Teaching STEM*. Poster presented at the National STEM Summit. Raleigh, NC.

Maiorca, C., & Benken, B. (2019). *Expanding Dispositions by Using Integrated STEM Unit in Elementary Methods.* Poster presented at the National Council of Teachers of Mathematics Research conference. San Diego, CA.

Accepted Presentations

Bush, S. B., *****Edelen, D., Roberts, T., **Maiorca, C.**, Ivy, J. T., Cook, K. L., Tripp, L. O. Burton, M., Alameh, S., Jackson, C., Mohr-Schroeder, M. J., Schroeder, D. C., *McCurdy, R. P., & Cox Jr., R. (2021, October). *The role of empathy in integrated STE(A)M instruction.* School Science and Mathematics Association Annual Convention. Virtual.

Jackson, C., Mohr-Schroeder, M., Bush, S.B., **Maiorca, C.**, & Roberts, T. (October 2021). *Equity-Oriented STEM literacy conceptual* framework. School Science and Mathematics Association Annual Convention. Virtual.

Maiorca, C., Tripp, O., & Burton, M. (October 2021). *PST perceptions of integrated STEM through virtual learning experiences.* School Science and Mathematics Association Annual Convention. Virtual.

Burton, M., **Maiorca, C.**, Tripp, O., Roberts, T., Ivy, J. (October 2021). *Reflections on a virtual STEM camp: Lessons learned by teacher educators*. School Science and Mathematics Association Annual Convention. Virtual.

Maiorca, C., Roberts, T., Jackson, C., Mohr-Schroeder, M., & Bush, S.B. (January 2022). *Mathematics: Barrier or motivator to STEM career interests*. Hawaii International Conference on Education. Waikoloa, HI.

Maiorca, C., Piker, R., & Hamm, D. (January 2022). *Early childhood teachers' dispositions of Integrated STEM*. Hawaii International Conference on Education. Waikoloa, HI.

Burton, M., Tripp, O., **Maiorca, C.,** & Roberts, T. (February 2022*). Collaborating Across Disciplines to Impact Preservice Teachers Beliefs about Teaching STEM, Science and Mathematics*. Annual Meeting of Association of Mathematics Teacher Educators. Las Vegas, NV.

Burton, M., **Maiorca, C.**, Tripp, O., (March 2022). *Elementary PSTs' Mathematics Teaching Beliefs after Teaching STEM Virtually*. Annual Meeting of the Research Council on Mathematics Learning. Grapevine, TX.

Jackson, C., Mohr-Schroeder, M., Roberts, T., **Maiorca, C.** (March 2022). *Teaching & Learning Mathematics Within Integrated STEM*. Annual Meeting of the Research Council on Mathematics Learning. Grapevine, TX

Roberts, T., & **Maiorca, C.** (March 2022). *Technology and Engineering Practices in Elementary STEM.* Annual Meeting of the International Technology Engineering Educators Association. Orlando, FL.

Maiorca, C., & Roberts, T. (March 2022*). Implementing STELs in Elementary Classroom using MEAs*. Annual Meeting of the International Technology Engineering Educators Association. Orlando, FL.

Burton, M., Tripp, O., & **Maiorca, C**. (March 2022). *Inhabit Mars: Virtual STEM for Elementary Students*. Annual Meeting of the International Technology Engineering Educators Association. Orlando, FL.

EXTERNAL FUNDING

Funded:

Department of Education: **STEAM Ecosystem Expanded Demonstration Project. Role PI** for California State University, Long Beach (Amount requested $167, 378, Full Project Amount for first year $1,580,125, anticipated funding for five years) (**funded)**

Fluor Foundation Grant, Fluor Corporation. **CSULB STEM Ed Project**. **Role: PI** Awarded, 2020, $10,000

Fluor Foundation Grant, Fluor Corporation. **CSULB STEM Ed Project**. **Role: PI** Awarded, 2019, $10,000

Fluor Foundation Grant, Fluor Corporation. **CSULB STEM Ed Project**. **Role: PI** Awarded, 2018, $10,000

Fluor Foundation Grant, Fluor Corporation. **STEM @ The Beach. Role: PI** Awarded, Summer 2017, $3,000

Not Funded:

National Science Foundation -ITEST. **Collaborative Research: Developing and Testing Innovations: STEM Within: Promoting Positive Identities through Anti-racist and Gender Inclusive Virtual Integrated STEM Experiences**. **Role PI.** at California State University, collaborative with University of Kentucky, Iowa State University, Bowling Green State University, Bellarmore University, University of Central Florida and Auburn University. (Amount requested $166,421, Full project amount 1,500,000, submitted summer 2020) (**Unfunded**)

National Science Foundation – Early Career. **CAREER: Transforming Teaching Practice through Affect: The Role of Informal STEM Experiences. Role PI** (amount requested $448,256, submitted summer 2020) (**Unfunded**)

Spencer Foundation- COVID Related Research Gant. **Supporting the teaching and learning of integrated STEM in early childhood education during COVID-19 times of social distancing and online learning. Role PI.** Submitted June 2020. (Amount Requested $49,992) (**Unfunded**)

Spencer Foundation – Small Grant. **Informal Learning in an Aquarium: Building School-to-Home-to-Community Connections to Promote STEM and Digital Literacies. Role Co-PI**. (Amount requested $59,939). (**Unfunded**)

National Science Foundation – ITEST. **Collaborative Research: SPrEaD: Broadening Participation Research: Increasing Opportunity and Access for Underrepresented Learners in STEM. Role: PI.** at California State University collaborative with University of Kentucky, Iowa State University and Bowling Green State University. Submitted August. (Amount requested $347, 879, Full project amount $1,997,618) (**Unfunded**)

National Science Foundation – AISL. **Collaborative Research: Broadening Participation in STEM Education via STEM Camps. Role: PI.** at California State University collaborative with University of Kentucky, Iowa State University and Bowling Green State University. Submitted November 2017. (Amount requested $392,860, Full project amount $3,000,000) (**Unfunded**)

In preparation or Submitted

National Science Foundation: **Collaborative Research: Developing and Testing Innovations: *STEM Within*: Promoting Positive Identities through Anti-racist and Gender Inclusive Virtual Integrated STEM Experiences. Role PI** at California State University, Long Beach. Principal Investigators: Margaret Mohr-Schroeder at University of Kentucky, Christa Jackson at Saint Luis University and Sarah Bush at University of Central Florida. (Amount requested $108,535, Full Project Amount $3,000,000) **(Pending)**

INTERNAL FUNDING

CSULB **Instructionally Related Activities Grant** Academic Year, 2019-2020**. Role: PI.** $4,000, 2020-2021 **(Funded)**

CSULB Multidisciplinary Grant. **Designing an Instrument to Measure Elementary Preservice Teachers' Dispositions Towards Integrated STEM Role: PI**. April 2020, awarded **$ 14,675.00** (**Funded)**

CSULB Multidisciplinary Grant. **Aquarium STEM and family's' literacies projec**t. **Role: Co-PI**. April 2019 **(Awarded, $15,000)** (**Funded)**

CSULB Multidisciplinary Grant. **Aquarium STEM and family's' literacies projec**t. **Role: Co-PI**. Awarded, April 2019, $15,000 (**Funded)**

CSU Call, **Irvine Foundation**. Awarded 2019, $6,000 (**Funded)**

CSU Call, **Irvine Foundation**. Awarded 2018, $10,000 (**Funded)**

CSULB **College of Education Mentorship Grant Program**. **Role: PI.** Awarded, Spring 2018; $1,000 and 3-unit buyout (**Funded)**

CSULB **College of Education Mentorship Grant Program**. **Role: PI** Awarded, Fall 2017; $1,000 and 3-unit buyout (**Funded)**

CSULB **Instructionally Related Activities Grant. Role: PI** Awarded, 2017-2018 Academic Year, $8,000 (**Funded)**

SERVICE

National

President Elect, Elementary STEM Council of International Technology and Engineering Educators Association 2020- 2022

Member, Conference Committee for National Council of Teachers of Mathematics Regional Conference, Tampa FL. 2020

Member, Editorial Review Board for the International Technology and Engineering Educators Association Elementary STEM journal, 2018- present

Member, School Science and Mathematics Publications committee 2017 – 2020

Reviewer, Mathematics Teacher: Learning and Teaching Mathematics PK-12

Reviewer, Journal of Mathematical Behavior, 2020 - present

Reviewer, School Science, and Mathematics, 2017- present

Reviewer, International Journal of Science and Mathematics Education, 2019- present

Reviewer, Research Council on Mathematics Learning, 2016- present

Reviewer, National Science Foundation Panel**,** 2017

University

Recorder, University Resource Council, AY 2020-2021

Member, University Resource Council, fall 2018 to present

College

Co-Chair, CED Technology Committee, AY 2020-2021

Member, CED Technology Committee, AY 2021-2022

Member, Initial Teacher Preparation Program Committee AY 2019-2020; 2020 - 2021 (non-elected)

Member, Arts in Education, AY 2019-2020

Chair, Endowments Committee, AY 2017- 2018

Member, Endowments Committee, Spring 2017

Member, Faculty Council Teacher Education Department Representative, AY 2016-2017, 2017- 2018

Department

Member, Evaluation of Lecturers, Fall 2021 to present

UTEACH Coordinator, AY 2019-2020; AY 2020 - 2021

Member, Tenure Track Search Committee, Fall 2019

Library Representative, Fall 2019

Member, Early Childhood Education Committee, Fall 2019

EDEL 462 Coordinator, Spring 2017 to present

Chair, Admissions and Standards Committee, Fall 2017 to present

Member, Admissions and Standards Committee, AY 2016 – 2017

Community Workshops

Maiorca, C. (Summers 2017, 2018 & 2019). STEM @ The Beach. Long Beach, CA.

Maiorca, C. (2015). After School STEM Academy. Sister Robert Joseph Bailey Elementary School. Las Vegas, NV.

Stohlmann, M. & Maiorca, C. (2013 & 2014). Saturday STEM. University of Nevada, Las Vegas.

Olson, T & Maiorca, C. (2013). Rebel STEM Academy. University of Nevada, Las Vegas.

PROFESSIONAL AFFILIATIONS

National

2019 - present, Psychology of Mathematics Education, North America
2019 - present, California Council of Teacher Education
2018 - present, National Science Teachers Association
2017 - present, Association of Mathematics Teachers Educators
2015 - present, School Science and Mathematics
2015 - present, Research Council on Mathematics Learning
2010 - present, National Council of Teachers of Mathematics

International

2018 - present, International Technology and Engineering Educators Association

TEACHING EXPERIENCE

California State University, Long Beach

Post Baccalaureate/ Credential Classes

EDEL 462 Teaching and Learning Mathematics, K-8
EDEL 482D Student Teaching in Diverse Classrooms

Master's Level

EDP 419: Introduction to Quantitative Statistical Methods
EDEC 527 Early Childhood Mathematics and Integrated STEM

University of Nevada, Las Vegas

Undergraduate/ Credential Classes

CIE 433 Teaching Elementary School Mathematics

University Supervisor

EDCI 490: Secondary Education Mathematics and Science Student Teaching Internship

Master's Level

CIS 533M Teaching Middle School Mathematics

Graduate Teaching Assistant

University of Nevada, Las Vegas

CIE 625 Instructional Intermediate Elementary Mathematics Education
EDMS 453/ CIS 533M Teaching Middle School Mathematics
CIE 629 Curriculum Development in Mathematics Education

K-12 Teaching Experience

2008-2012	**Secondary Mathematics Teacher** Geometry, Algebra I Clark County School District Las Vegas, NV
2005- 2007	**Secondary Mathematics Teacher**

Trigonometry, Pre-Calculus, AP Statistics
Allen High School
Allen Independent School District
Allen, TX

2004-2005 **Secondary Mathematics Teacher**
Algebra II
Desoto High School
Desoto Independent School District
Desoto, TX

1998-1999 **Secondary Mathematics Teacher**
Algebra I, Trigonometry and Pre-Calculus
International Studies Academy
San Francisco Independent School District
San Francisco, CA