Curriculum Vitae Fall 2023

David J. Carrejo, Ph.D.
Associate Professor, Mathematics Education
Distinguished Teaching Professor

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ResearchGate: https://www.researchgate.net/profile/David_Carrejo

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CHRONOLOGY OF EDUCATION

2004 Ph.D., Mathematics Education, Department of Curriculum & Instruction, University of Texas at Austin

1998 M.A.T., Mathematics, Department of Mathematical Sciences, University of Texas at El Paso

1995 B.S., Mathematics, Department of Mathematical Sciences, University of Texas at El Paso

Research Interests: Models and Modeling in Math & Science Education; Algebraic Reasoning & Foundations of Analytic Geometry; History of Mathematics in Mathematics Education; Curriculum & Instruction in Mathematics; STEM Education

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PROFESSIONAL EMPLOYMENT

Current **Associate Professor of Mathematics Education, Department of Teacher Education/STEM Education Division, College of Education, UTEP**

2015 **University of Texas Regents Outstanding Teaching Award recipient**
2019 **Inaugural Member, UTEP Academy of Distinguished Teachers**

2015 - 2018 **Associate Dean of Undergraduate Studies and Educator Preparation, College of Education, UTEP**

- Oversaw the Center for Student Success (Advising, Field Experience, and Certification Offices) and its processes to ensure alignment with Texas Administrative Code;

- In conjunction with Department Chairs and the College Curriculum Committee, oversaw Educator Preparation Program curriculum changes and ensured alignment with Texas certification standards and Texas Administrative Code;
- Addressed both undergraduate and graduate student appeals and grievances related to certification and the Educator Preparation Program;
- Coordinated educator preparation with Colleges of Science, Liberal Arts, Health Sciences, and Engineering;
- Informed all faculty of development and changes in teacher education standards, certification testing, and Texas Administrative Code;
- In conjunction with the Dean, coordinated and convened the Teacher Preparation Advisory Committee (TPAC);
- In conjunction with the Dean, established and maintained affiliation agreements related to the Educator Preparation Program with K-12 partners;
- In conjunction with the Dean, actively represented the College of Education on both Educator Preparation Program and certification matters both within and outside of the University;
- In conjunction with the Dean, oversaw and updated the College of Education's strategic plan and its alignment with the University's strategic plan;
- Performed duties and accepted responsibilities as assigned by the Dean.

2012 – 2015 **Assistant Chair of Teacher Education & Director, Teacher Preparation Program, College of Education, UTEP**

- In conjunction with the Department Chair, oversaw and updated the department's strategic plan and its alignment with both the college and university's strategic plan;
- In conjunction with the Department Chair, oversaw and participated in the continued accreditation of the department;
- Collected, managed, and analyzed all pertinent data related to accreditation and certification;
- Met regularly with the Chair and Dean and reported to the faculty on matters related to accreditation and certification;
- Oversaw and coordinated curriculum changes for undergraduate, graduate, and doctoral programs in the Teacher Education department;
- Evaluated and monitored course syllabi for alignment and adherence to TExES certification standards;
- Informed all faculty of changes in teacher education standards as well as developments and changes in state standardized testing;
- Worked with the advising center to provide information regarding developments and changes in curriculum as well as policies and procedures for the teacher preparation program;
- Performed duties and accepted responsibilities as assigned by the Chair.

GRANTS & CONTRACTS

Pending PI, *Building Engineering Systems Thinking through STEM Learning Environments (BEST STEM)*. Resubmission to the National Science Foundation, Undergraduate STEM Education (IUSE) research program. Amount requested: $534,835.

In progress	PI, *Designing Teacher Learning Experiences to Generate Specialized Knowledge of Elementary Mathematics (SPK-MATH).* National Science Foundation, Improving Undergraduate STEM Education (IUSE) research program.
	PI, *Data-Driven Decision Making (3DM) that Supports Systemic Instructional Improvement in Elementary Mathematics Education.* In preparation for the National Science Foundation, DRK-12 program.
2022	PI, *Building Engineering Systems Thinking through STEM Learning Environments (BEST STEM)*. National Science Foundation, IUSE Research program. $569,216 (not funded).
2021	PI, *Data-Driven Decision Making (3DM) Supporting Coherent Instructional Improvement in Mathematics.* National Science Foundation, DRK-12 research program. $448,897 (not funded).
	Co-PI, *RET Site: Water Security & Data Science (H2OData)*. National Science Foundation, Research Experience for Teachers program. $600,000 (not funded).
2020	PI, *Growth Mindsets for Algebra Proficiency (GMAP)*, Bill & Melinda Gates Foundation, Balance the Equation: A Grand Challenge for Algebra I. $89,381.54 (not funded).
	Co-PI, *Unheard Voices: Building the El Paso Children's Museum for All.* The El Paso Children's Museum. Funded: $46,310.
2017 – 2020	Co-PI, *Assessing the Impact of Texas Science, Technology, Engineering, and Mathematics Academies on Students: Learning Environments, Educational Outcomes, and Career Path Decisions*, National Science Foundation. Funded: $589,407.
2018	PI, *Partnerships Investing in Children's Knowledge of Science, Technology, Engineering, & Mathematics (PickSTEM),* American Honda Foundation, $75,000 (not funded).
2017 - 2018	PI, *Building Capacity for Elementary Environmental Science and Engineering Education*, The Boeing Company. Funded: $27,000
2016	PI, *Partnerships Investing in Children's Knowledge of Science, Technology, Engineering, & Mathematics (PickSTEM)*, Institute of Education Sciences, U.S. Department of Education, $1,139,362 (not funded).
2015	Co-PI, *Pathways to Education Science Research for UTEP Fellows*, Institute of Education Sciences Pathways, U.S. Department of Education. $1,199,161 (not funded).
2014	Co-PI, Co-Director, *UTeach El Paso*, The National Mathematics and Science Institute, $1,161,237 (not funded).

2011 – 2016 Co-PI, Co-Program Director, *Local Education Agencies Partnership (LEAP) Project*, Transition to Teaching, U.S. Department of Education. Funded: $3,200,000

2014 – 2015 Co-PI, *Building Capacity for Preparing Teacher-Engineers for 21st Century Engineering*, National Science Foundation. Funded: $287,703

2009 – 2010 Principal Investigator for Teachers for a New Era (TNE) exploratory study, *Middle School Mathematics Teacher Induction through Comprehensive Professional Development*, The Carnegie Foundation. Funded: $4,000

2008 – 2009 Co-PI, *Strategic Learning Opportunities for Promoting Earth Science (Project SLOPES)*, Teacher Quality Grant, Texas Higher Education Coordinating Board. Funded: $70,133

2007 – 2008 Co-PI, *The Earth Science Academy*, Teacher Quality Grant, Texas Higher Education Coordinating Board. Funded: $86,999

2006 – 2007 Faculty Research Associate, *Reaching Out across Disciplines: Learning from Each Other to Produce More Graduates in Computer Science*, Texas Engineering and Technical Consortium (TETC). Funded: $284,882

PUBLICATIONS

Books

Pending Carrejo, D., Dennis, D., & Addington, S. (2024). *Connecting History to Secondary School Mathematics: An Investigation to Re-envision the Intended Curricula for Mathematics Education.* To be published by *Springer International.*

2023 Carrejo, D. *Foundations for Teaching Elementary and Middle School Mathematics.* Dubuque, IA: Kendall-Hunt Publishing. ISBN: 979-8-7657-8795-3

Refereed Journals

Submitted Carrejo, D., & Dennis, D. Engaging students in advanced mathematical reasoning: A case for developing meta-representational competence. Under review by *For the Learning of Mathematics*.

In press Salcedo, O., Carrejo, D, & Luna, S. Engineering praxis ethos: Designing experiences to support curricular and instructional improvement in STEM education. To be published by the *International Journal of Education in Mathematics, Science, and Technology.*

Carrejo, D., & Reinhartz, J. (2014). Facilitating conceptual change through modeling in the middle school science classroom. *Middle School Journal, 46*(2), 10-19.

Carrejo, D., & Reinhartz, J. (2014). Teachers fostering the co-development of science literacy and language literacy with English Language Learners. *Teacher Development: An International Journal of Teachers' Professional Development*, *18*(3), 334-348.

Carrejo, D., & Reinhartz, J. (2012, Summer). Exploring the synergy between science literacy and language literacy with English Language Learners: Lessons learned within a sustained professional development program. *Journal of the Southeastern Regional Association of Teacher Educators, 21*(3), 33 – 38.

Carrejo, D., & Reinhartz, J. (2012, October). Modeling light and shadows. *Science and Children,* 78 – 80.

Carrejo, D., & Reinhartz, J. (2012). Exploring connections between science teacher learning and designing quality professional development. *The Teacher Educators' Journal, 19,* 23 – 41.

Carrejo, D., & Robertson, W.H. (2011). Integrating mathematical modeling for undergraduate pre-service science education learning and instruction in middle school classrooms. *US-China Education Review 8*(4), 499 – 509.

Carrejo, D., Cortez, T., & Reinhartz, J. (2010). Exploring principal leadership roles within a community of practice to promote science performance of English Language Learners. *Academic Leadership, 8*(4).

Marshall, J., & Carrejo, D. (2008). Students' mathematical modeling of motion. *Journal of Research in Science Teaching 45(2)*, 153-173.

Carrejo, D., & Marshall, J. (2007). What is mathematical modeling? Exploring prospective teachers' use of experiments to connect mathematics to the study of motion. *Mathematics Education Research Journal 19*(1), 45-76.

Confrey, J., & Carrejo D. (2005). Ratio and fraction: The difference between epistemological complementarity and conflict, v1.0 [Videopaper]. In *Medium and Meaning: Video Papers in Mathematics Education Research, Journal for Research in Mathematics Education Monograph, Vol. 13*. 11.5 min. video (38.6 MB), 21 pages text (65.1 KB), 20 images (556 KB), 13 animations (92.6 KB).

Conference Proceedings

Salcido, S., Ortiz, M., & Carrejo, D. (2014). Cross-Cultural Teacher Practices in a Mathematical Constructivist Setting. *Proceedings of the Scottish Educational Research Association (SERA) Annual Conference*.

Robertson, W.H., and Carrejo, D. (2010). Project STIMMULIS: Science Teachers Integrating Mathematical Modeling for Undergraduate Learning and Instruction in Schools. In C. Crawford et al. (Eds.), *The Proceedings of Society for Information Technology and Teacher Education (SITE) International Conference (pp. 1612-1619).* San Diego, CA.

Carrejo, D., & Reinhartz, J. (2010). Exploring connections between learning science and mathematics content and English language acquisition: A literacy framework for English Language Learners. In Duschl, R.A., Zeidler, D.L., Kyle, Jr., W.C., & Sondergard, T.A. (Eds.), *The Proceedings of the Annual International Conference of the National Association for Research in Science Teaching (NARST)* [CD-ROM]. Philadelphia, PA.

Carrejo, D., & Marshall, J. (2004). Motion and mathematical modeling: A study of emerging themes and their impact on science education. *The Proceedings of the annual meeting of the National Association for Research in Science Teaching (NARST)* [CD-ROM]. Reston, VA: National Association for Research in Science Teaching.

Confrey, J., & Carrejo, D. (2002). A content analysis of exit level mathematics on the Texas Assessment of Academic Skills: Addressing the issue of instructional decision-making in Texas. In D. S. Mewborn, P. Sztajn, D.Y. White, H.G. Wiegel, R. L. Bryant, and K. Nooney (Eds.), *Proceedings of the twenty-fourth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 539-550).* Columbus, OH: ERIC Clearinghouse.

Confrey J., & Carrejo, D. (2002). Can high stakes testing in Texas inform instructional decision-making? In D.S. Mewborn, P. Sztajn, D.Y. White, H.G. Wiegel, R. L. Bryant, and K. Nooney (Eds.), *Proceedings of the twenty-fourth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 551-564).* Columbus, OH: ERIC Clearinghouse.

Manuscripts in Preparation

Alarcon-Fernandez, A.R., & Carrejo, D. Developing multimodal semiotic practices to enhance English language learning in mathematics. In preparation for the *Journal of Mathematical Behavior*.

Carrejo, D., & Dennis, D. The epistemology of Gottfried W. Leibniz's transmutation method. In preparation for *History of Science*.

Carrejo, D. & Ortiz, M. Visualizing trigonometric functions: An examination of Cartesian competence through an epistemology of multiple representations. In preparation for the *Mathematics Education Research Journal*.

Dasgupta, D., & Carrejo, D. Replacing STEM with natural philosophy: The confluence of the sciences and the humanistic modes of thought in chemistry and in mathematics. In preparation for *Foundations of Science*.

Saldaña, C., Argus-Calvo, B., & Carrejo, D. Unheard voices: Building the El Paso Children's Museum for all. In preparation for the *International Journal of the Inclusive Museum*.

CONFERENCE PRESENTATIONS

2015 Carrejo, D., & Williams, M. *STEM T3 Project: Engineering Pathways*. 25th annual National Association for Alternative Certification (NAAC) Conference, Chicago, IL.

Carrejo, D., Williams, M., & Hernandez, S. *Taking the LEAP: A Multi-dimensional STEM Project*. 8th annual Texas STEM Conference of the Texas STEM Coalition, Austin, TX.

2013 Carrejo, D., & Reinhartz, J. *Fostering Science Literacy and Its Role in Developing Language Literacy for English Language Learners: A Study in Teaching for Understanding.* Paper proposal submitted to the annual meeting of the American Educational Research Association (AERA), San Francisco, CA.

2011 Carrejo, D., & Reinhartz, J. (April) *Integrating Science and Mathematics within an Engineering Context to Foster STEM Literacy among Middle School Students.* Paper presented at the annual meeting of the American Educational Research Association (AERA), New Orleans, LA.

2010 Carrejo, D. (June). *Developing a Theoretical Framework for Novice Mathematics Teacher Induction: A Case Study of a University-School Partnership.* Paper presented at the Teachers for a New Era (TNE) Education Research Symposium, El Paso, TX.

Robertson, W., & Carrejo, D. (March) *Science Teachers Integrating Mathematical Modeling in Undergraduate Learning for Instruction in Schools.* Paper presented at the annual conference of the Society for Information Technology and Teacher Education (SITE), San Diego, CA.

Carrejo, D., & Reinhartz, J. (March) *Exploring Connections Between Learning Science and Mathematics Content and English Language Acquisition: A Literacy Framework for English Language Learners.* Paper presented at the annual conference of the National Association for Research in Science Teaching (NARST), Philadelphia, PA.

2009 Carrejo, D., Cortez, T., & Reinhartz, J. (April). *Developing Leadership Roles within a Community of Practice for Promoting Academic Performance of ELL Students.* Paper presented at the annual meeting of the American Educational Research Association (AERA), San Diego, CA.

Reinhartz, J., & Carrejo, D. (February) *Producing Teachers Who Meet the Needs of English Language Learners in Middle School Science: Integrating Content with Language Development (ICLD).* Paper presented at the 61st annual meeting of the American Association of Colleges for Teacher Education (AACTE), Chicago, IL.

2008 Soto-Mas, F., Villaverde, G., Carrejo, D., & Balcázar, H. (May). *Health Literacy among College Students.* Poster presented at the Seventh Annual Health Literacy Conference: Health Literacy in Primary Care: Best Practices and Skill Building. Irvine, CA.

Carrejo, D., & Reinhartz, J. (February). *An Innovative Professional Development Plan for Implementing Best Teaching Practices in Middle School Science and Mathematics.* Paper presented at the 60th annual meeting of the American Association of Colleges for Teacher Education (AACTE), New Orleans, LA.

2007 Carrejo, D., & Reinhartz, J. (April). *Promoting Middle School Science and Mathematical Reasoning through Modeling*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL

Carrejo, D., & Reinhartz, J. (February). *From Vision to Action: Serving Diverse Learners through a Systemic Approach to Teaching and Learning.* Paper presented at the 59th annual meeting of the American Association of Colleges for Teacher Education (AACTE), New York, NY.

2004 Marshall, J., & Carrejo, D. (October). *Pre-college teachers: Construction of the velocity concept.* American Physical Society (APS), Texas Section. Waco, TX.

Carrejo, D., & Marshall, J. (August). *Teachers' mathematical modeling of motion.* Paper presented at the 129th national meeting of the American Association of Physics Teachers (AAPT). Sacramento, CA.

2002 Confrey J., & Carrejo, D. (October). *A content analysis of exit level mathematics on the Texas Assessment of Academic Skills: Addressing the issue of instructional decision-making in Texas.* Paper presented at the 24th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA). Athens, GA

2001 Confrey, J., Bell, K., & Carrejo, D. (April). *Systemic crossfire: What implementation research reveals about urban reform in mathematics.* Paper presented at the annual meeting of the American Educational Research Association (AERA). Seattle, WA.

ACADEMIC/TEACHING EXPERIENCE

2005 – present Associate Professor, Mathematics Education, Department of Teacher Education/STEM Education Division, College of Education, UTEP

- Undergraduate courses:
  - ELED 4310 – Teaching Mathematics in Elementary Schools
  - ELED 4311 – Teaching Science in Elementary Schools

- MSED 4310 - Teaching Mathematics in the Intermediate and Middle Grades
- MSED 4311 - Teaching Science in the Intermediate and Middle Grades

o Graduate courses:
- MTED 5318 - Learning Theory in K – 12 Mathematics Education
- MTED 5318 - Teaching and Learning with Technology in the Mathematics Classroom
- MTED 5320 - Research-Based Practices in the Mathematics Classroom
- MTED 5322 - Fostering Algebraic Reasoning
- MTED 5322 - Fostering Geometric Thinking
- MTED 5322 – Development of Quantitative Reasoning
- MTED 5326 – Cultural Historical Epistemology and Didactics of Mathematics

o Doctoral level courses:
- MTED 6305 – Philosophy, History, and Nature of Mathematics and Science
- TED 6319 – Foundations of Mathematical Literacy

2006 – 2007 Faculty for Summer Science Academy, Department of Teacher Education, College of Education, UTEP

2005 - 2006 Instructor, Department of Curriculum & Instruction, University of Texas at Austin

2000 – 2004 Graduate Research & Teaching Assistant, Department of Curriculum & Instruction, UTeach program, University of Texas at Austin

1998 - 1999 Instructor, Department of Mathematical Sciences, UTEP

1997 – 1998 Teaching Assistant, Department of Mathematical Sciences, UTEP

1996 – 1998 Pre-Calculus/Calculus teacher, Cathedral High School, El Paso, Texas

1994 – 1997 Mathematics instructor, Academic Development Center, UTEP

1993 – 1994 Pre-Algebra teacher, substitute teacher, and private tutor, Cathedral High School, El Paso, Texas

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STUDENTS MENTORED

Doctoral

Current Chair for **Judith Lara Reyes**, PhD, *Teaching, Learning, & Culture* (STEM specialization)
Dissertation: *Transfronterizo Students' Discourse and Mathematical Practices in the Classroom: A Case Study of Experiences in a Bicultural Setting*

Chair for **Ana Rosina Alarcon**, PhD, *Teaching, Learning, & Culture* (STEM specialization)

Advisor for **Raul Villagrana**, PhD, *Teaching, Learning, & Culture* (STEM specialization)

Advisor for **Ericka Diaz**, PhD, *Teaching, Learning, & Culture* (STEM specialization)

2021 Committee Member for **Michael Lewis**, PhD, *Teaching, Learning, & Culture* (Sociocultural Foundations of Education specialization)
Dissertation: *A Phenomenological Case Study Exploring the In-home Experiences of African Americans Pursuing STEM Degrees at a Historically Black College.*

2018 Committee Member for **Hector Hernandez**, EdD, *Educational Leadership & Foundations*
Dissertation: *Examining Paths to Success by Assessing Undergraduate Pre-Service Teachers' Performance on Texas Examinations of Educator Standards (TExES) for Teacher Certification*

2017 Chair for **Mayra Ortiz-Galarza**, PhD, *Teaching, Learning, & Culture* (Math, Science, & Technology specialization)
Dissertation: *The Influence of Multiple Representations on Secondary Students' Understanding of Trigonometric Functions*

Chair for **Oscar Salcedo**, PhD, *Teaching, Learning, & Culture* (Math, Science, & Technology specialization)
Dissertation: *Towards a Unified Theory of Engineering Education*
Recipient, 2017-2018 UTEP Outstanding Dissertation Award

Chair for **Abdelghani Setra**, PhD, *Teaching, Learning, & Culture* (Math, Science, & Technology specialization)
Dissertation: *Investigating Mathematics Self-Efficacy Beliefs of Elementary Pre-Service Teachers in a Reform-Based Mathematics Methods Course*

Master's

2023 Committee member for **Jazmyne Del Hierro**, M.S. Systems Engineering, College of Engineering
Thesis: *Systems Thinking as a Method for Leveraging SMART Classrooms*

2017 Chair for **Michael Strange**, M.A., Education (Math, Science, & Technology specialization)
Thesis: *The Effects of a Discrete Covariational Approach to Functions through Computer Programming on Students' Understanding of Rate of Change*

Student Presentations

2014 **Steve Salcido**, doctoral student, Ph.D., Teaching, Learning, & Culture, & **Mayra Ortiz**, doctoral student, Ph.D., Teaching, Learning, & Culture

Cross-Cultural Teacher Practices in a Mathematical Constructivist Setting. Paper presented at the Scottish Educational Research Association (SERA) Annual Conference (November 21), University of Edinburgh

2007 **Leticia Vasquez,** graduate student, M.Ed., Education Technology

Improving Student Comprehension through Use of the 5-E Model and Journal Writing. Poster presented at the College of Education Third Annual Fall Research Symposium (November 19), UTEP

SERVICE

Committees/Appointments

Current — Co-Founder/Inaugural Editorial Council Member, *Bridging Educational Research and Practice: An Interdisciplinary Journal*, College of Education, UTEP

Member, Paso del Norte Partnership for Education Research, College of Education, UTEP

Member, Committee for PhD in Teaching, Learning, & Culture, College of Education, UTEP

Member, Graduate Programs Committee, Department of Teacher Education, College of Education, UTEP

Member, Undergraduate Curriculum Committee, Department of Teacher Education, College of Education, UTEP

Member, Promotion and Tenure Committee, Department of Teacher Education, College of Education, UTEP

Member, Review Task Force for Outstanding Dissertation Award Nominations, College of Education, UTEP

Member, Post-Tenure Review Committee, Department of Teacher Education, College of Education, UTEP

Reviewer, University of Texas Regents' Outstanding Teaching Award applications, Center for Faculty Leadership and Development, UTEP

2019 — Member, School Partnership and Field Experiences Focus Team, College of Education, UTEP

2018 – 2019 — Member, University Honors Program Vision Committee, Office of the Provost, UTEP

2017 – 2018 — Member, UT System Educator Preparation Policy Advisory Committee, Office of Academic Affairs, University of Texas System

2016 – 2018 — Member, Teacher Preparation Advisory Committee, College of Education, UTEP

	Convener and Member, Educator Preparation Program Committee, College of Education, UTEP
2018	Member, Hiring Committee, Chief of Education (COE) for Leadership and Workforce Development Program, Fort Bliss, El Paso, TX
2009 – 2017	Member, Institutional Review Board (IRB), UTEP
2016	Member, Community Engagement Council (CEC), UTEP
	Member, Top Ten Seniors Award Committee, UTEP
2015	Co-Chair, Mathematical Association of America - Southwestern Section Conference
2013 – 2016	Member, Graduate Council, UTEP
2013	Reviewer, College Office of Undergraduate Research Initiatives (COURI) Awards Competition, UTEP
	Member, Outstanding Thesis and Dissertation Committee, Graduate School, UTEP
	Member, Search Committee, Associate Dean of the Graduate School, UTEP
2012 – 2013	Strategic Plan Implementation Committee, College of Education, UTEP
2011 – 2012	Chair, Search Committee, Tenure-Track Position in Education Technology, Department of Teacher Education, UTEP
	Member, TExES Certification Advisory Committee, College of Education, UTEP
2011	Panel Reviewer, Research and Evaluation on Education in Science and Engineering (REESE) Program, National Science Foundation (NSF)
2010	Chair, Search Committee, Tenure-Track Position in Curriculum/Science/Technology, Department of Teacher Education, UTEP
2009 – 2010	Member, Search Committee, Tenure-Track Position in Special Education, Department of Educational Psychology, UTEP
2009	Member, Undergraduate Studies Committee, College of Education, UTEP
2007 – 2010	Member, Professional Development School Planning and Clinical Practice Committee, College of Education, UTEP

2006 – 2008 Member, Search Committee, Tenure-Track Positions for both Mathematics Education and Science Education programs, Department of Teacher Education, UTEP

Member, Certification Testing (TExES) Strategic Planning Committee, College of Education, UTEP

Member, Professional Development School Planning Committee, College of Education, UTEP

2006 Member, Search Committee, Tenure-Track Position for Health Literacy program, College of Education, UTEP

2005 Member, Student Advisory Council, College of Education, UTEP

Professional Development (Teacher Preparation)

2021 Facilitator/Designer of virtual review sessions in TExES mathematics content area for pre-service EC-6 teachers, Department of Teacher Education/STEM Division, College of Education, UTEP

2014 Co-Facilitator of professional development for pre-service STEM teachers, sponsored by the Science, Engineering, Mathematics, and Aerospace Academy (SEMAA), College of Engineering, UTEP

2012 Facilitator of sustained professional development in mathematics for in-service mathematics teachers, grades 9 – 12, Cathedral High School, Catholic Diocese of El Paso

2006 – present Facilitator/Instructor for monthly review sessions in TExES mathematics content area for pre-service 4-8 teachers, all specializations, including the Alternative Teacher Certification Program (ATCP) and Master Mathematics Teacher (MMT) Certification, Department of Teacher Education, College of Education, UTEP

2011 Facilitator/Instructor for professional development sessions in quantitative reasoning for in-service mathematics teachers, grades K – 5, Ysleta Independent School District

Facilitator/Instructor for monthly professional development sessions in mathematics and science for in-service math and science teachers, grades 4 and 5, Capistrano Elementary School, Ysleta Independent School District

2007 – 2010 Facilitator/Instructor for monthly professional development sessions in mathematics and science for in-service math and science teachers, grades 6 – 8, José Alderete Middle School, Canutillo Independent School District

Consulting

Current	Reviewer, *International Journal of Education in Mathematics, Science, and Technology*
	Reviewer, *Education Sciences*
	Reviewer, *Teaching Statistics*
	Reviewer, *Mathematics Education Research Journal*
	Reviewer, *Investigations in Mathematics Learning*
	Reviewer, *CRC Press*, Taylor & Francis
	Reviewer, *Mathematical Thinking and Learning*
	Reviewer, *Journal for Research in Mathematics Education*
	Reviewer, *The Teacher Educator*
	Reviewer, *Journal of STEM Education: Innovations and Research*
	Reviewer, *Journal of Mathematics Teacher Education*
	Reviewer, *Middle School Journal*
	Reviewer, *Statistics Education Research Journal*
2013	External Reviewer, Southern Association of Colleges and Schools (SACS) Accreditation for Cathedral High School, El Paso, Texas
2012	Reviewer, *Higher Education of Social Science*
2009	Reviewer, *Teaching Student Centered Mathematics, Grades 5 – 8, (2nd edition)* by John Van de Walle and LouAnn Lovin. Allyn & Bacon Publishing.
2008 - 2011	Faculty Member, U.S. Department of Education sponsored grant, *Project LEAP UP (Learning, Encouraging, and Planning to Uplift Performance)*, College of Education, University of Texas at El Paso
2007	Faculty consultant for math module development, MTC (Math-TEKS Connection) Project, Texas A&M University, College Station, TX
2006 – 2007	Contractor for Preparatory Teacher Education Study (PTEDS), Center for Research in Mathematics and Science Education, Michigan State University, East Lansing, MI

2005 Co-Consultant, Teachers for a New Era (TNE) Mathematics Working Group, University of Texas at El Paso

Co-Consultant, Mathematics Professional Development Program, the Bob Bullock Texas State History Museum, Austin, TX

2004 Member, Assessment Expert Panel, TexTeams/SimCalc Project

2003 Consultant, Girlstart, Austin, Texas

Mentoring

2018 Faculty mentor for promotion and tenure, Dr. Song An, PhD, Teacher Education Department, Division of STEM Education, College of Education, UTEP

2017 Faculty mentor for University of Texas Regents Outstanding Teaching Award Recipient, Dr. Song An, PhD, Teacher Education Department, Division of STEM Education, College of Education, UTEP

2016 Faculty mentor for University of Texas Regents Outstanding Teaching Award Recipient, Dr. Joyce Asing-Cashman, PhD, Teacher Education Department, Division of STEM Education, College of Education, UTEP

PROFESSIONAL DEVELOPMENT ACTIVITIES

2023 Participant, Blackboard Ultra Workshop, sponsored by UTEP Technology Support Services.

2022 Participant, Teaching Online Academy, sponsored by the UTEP Center for Instructional Design.

2020-21 Participant, Blackboard Institute, Transforming Your Teaching with Blackboard Learn, sponsored by UTEP Technology Support Services.

2013 Participant, Writing NIH and NSF Proposals: Beyond the Basics Workshop, sponsored by the Office of the Provost, UTEP

Participant, Digital Academy, sponsored by Instructional Support Services, UTEP

2010 Participant, SmartBoard training, College of Science, UTEP

Participant, Digital Measures Learning Fiesta, College of Education, UTEP

2008 Participant, K-16 Education Research Conference, UTEP

2006 Participant, Digital Academy, sponsored by Instructional Support Services, UTEP

COMMUNITY ACTIVITIES & SERVICE

2019 Consultant, El Paso Children's Museum, El Paso, Texas

2018 Historian, Board of Directors, Cathedral High School Alumni Association, El Paso, Texas

2017 Organizing Committee member, 8th Wall of Giants: Commemorating Saint Patrick Cathedral and Cathedral High School, El Paso Museum of History

AWARDS & HONORS

2020-21 Association of College and University Educators' (ACUE) Course in Effective Teaching Practices, sponsored by the Center for Faculty Leadership Development & Office of the Provost, UTEP Amount: $1333.00

ACUE Credential in Effective Teaching Practices. This micro-credential signifies my completion of an ACUE course requiring the implementation of evidence-based instructional approaches. The credential is co-issued by the American Council on Education and distinguishes faculty for their commitment to educational excellence and student success.

2019 Inaugural Member, University of Texas at El Paso Academy of Distinguished Teachers

Outstanding Dissertation Mentor Award, Graduate School, UTEP

2018 Service Award, College of Education, UTEP

SEED Volunteer Award, Roman Catholic Diocese of El Paso, Texas

Challenge Coin, United States Army Sergeants Major Academy, Fort Bliss, El Paso, Texas

2015 City of El Paso Star on the Mountain Award, El Paso City Council, El Paso, Texas

Certificate of Recognition, Senate, State of Texas

University of Texas Regents Outstanding Teaching Award

2005 Publication Award, National Council of Teachers of Mathematics

2001 Jewel Popham Raschke Endowed Presidential Scholarship in Mathematics Education, University of Texas at Austin