

Julian Viera Jr. PhD.
Curriculum Vitae

Lecturer/Coordinator of Pre-calculus & Calculus I
College of Science
Department of Mathematics
Bell Hall 119
The University of Texas at El Paso
El Paso, TX 79968
(915) 747-6770
jviera1@utep.edu

EDUCATION

PhD. University of Texas at El Paso. Department of Teacher Education: Teaching Learning and Culture. May 2017.

Area of concentration: Math education, online education, biliteracy, and digital literacies.

Dissertation: “Emergent bilinguals’ engagement in an online mathematics course utilizing an intelligent tutoring system.”

M.S. University of Texas at El Paso. Theoretical Mathematics. December 1994.

B.S., University of Texas at El Paso. Mathematics December 1992.

PROFESSIONAL EXPERIENCE

Lecturer. 2009 – Present. Department of Mathematical Sciences.

Lecturer. 1997 – 2009. Developmental Math Department.

High School Math Teacher. 1994 – 1997. El Paso Independent School District, School-age Parent Center.

AWARDS

Distinguished Achievement award in Teaching May 2012

Distinguished Achievement award in Teaching May 2011

FUNDED PROJECTS

Active Learning Academy for STEM [ALAS]: Professional Development in Evidence-Based Practices to Build Learning Communities

Co-Pi: I developed weekly worksheets, online quizzes and assignments, monitor workshop attendance, conducted weekly meetings with TAs, and participated in interviews.

PI: Dr. Elsa Villa

US Department of Education Minority Science and Engineering Improvement Program (MSEIP)

Fall 2017-Spring 2019

Project BEST: Bridges for Education Students to Succeed

Faculty Mentor: I taught the Algebra class during summer 2012 developed online portion of the class., conducted interviews, and collected qualitative and quantitative data.

PI: Dr. Judith Munter

Texas Higher Education Coordinating Board (THECB) grant, 05/09-05/12, amount \$299,000.

PUBLICATIONS

Viera, J. (2018). Emergent bilinguals self-affecting their self-efficacy through bilingual digital environments. In M. J. Spector, B. B. Lockee, & M. Childress (Eds.), *Learning, design, and technology*. Advance online publication. doi: 10.1007/978-3-319-17727-4. Switzerland: Springer Nature.

Viera, J., Kosheleva, O., & Shahbazova, S., (2018). Bilingual students benefit from using both languages. In L. Zadeh, R. R. Yager, S. N. Shahbazova, M. Reformat, & V. Kreinovich (Eds.), *Recent Developments and New Direction in Soft Computing: Foundations and Applications* (pp. 431-439). Switzerland: Springer Cham.

Viera, J., M. J., Munter, J., & Kosheleva, O. (2014). College readiness for Hispanic future teachers: the effectiveness of a cognitive learning computer system in improving mathematical skills. *The Texas forum of teacher education*, 4, 62-173.

Viera, J. (2013). Intelligent tutoring software and their effectiveness for Pre-calculus. In Inside AT (<http://inside.at.utep.edu>)

PAPERS IN REFEREED CONFERENCE PROCEEDINGS

Viera, J., Kosheleva, O., & Shahbazova, S., (2016). Bilingual students benefit from using both languages., In Shahnaz N. Shahbazova (Ed.), *Proceedings of the 2016 World conference of soft computing*, Berkeley, California, May 22-25, pp. 280-283.

Viera, J, & Kosheleva, O., (2015). English Learners' Use of Language in an Online Pre-Calculus Course, *Proceedings of the 5th International Conference "Mathematics Education: Theory and Practice" MATHEDU'2015*, Kazan, Russia, November 27-28, 2015, pp. 266-273.

ABSTRACTS

Viera, J. and Kosheleva, O. (2017). Studying ELLs digital practices in an online environment to create equal learning opportunities. Abstracts of the Annual Meeting of the American Educational Research Association AERA'2017, San Antonio, Texas, April 27 - May 1, 2017.

Viera J. and Kosheleva, O. (2017). ELLs using linguistic capital to create equitable learning

- opportunities in an online math course. Abstracts of the 2017 Annual Meeting of the National Council of Teachers of Mathematics NCTM'2017, San Antonio, Texas, April 5-8, 2017, p. 56.
- Viera J. and Kosheleva, O. (2017). Using Digital Practices to Create Equitable Learning Environments in an Online Mathematics Course. Abstracts of the Twenty-First Annual Conference of the Association of Mathematics Teacher Educators AMTE'2017, Orlando, Florida, February 9-11, 2017, p. 40.
- Viera, J. and Kosheleva, K. (2016). Translanguaging: How ELLs use language in an online pre-calculus course. Abstracts of the Annual Conference of the National Council of Teachers of Mathematics (NCTM), San Francisco, California, April 13-16, 2016, p. 63.
- Viera, J., Kosheleva, O., and Lynch-Arroyo, R. (2016). Challenges and successes in implementing culturally relevant activities for ELLs Presentation. Abstracts of the Annual Conference of the National Council of Teachers of Mathematics (NCTM), San Francisco, California, April 13-16, 2016, p. 123.
- Viera, J., Kosheleva, O. (2015). Representations and operations with numbers using Mayan ideas. Abstracts of the Joint Conference of the New Mexico Mathematical Association for Two Year Colleges (NMMATYC) and the Southwest Section of the Mathematical Association of America (MAA), El Paso, Texas, April 18-19, 2015.
- Viera, J., Kosheleva, O., Munter, J. (2013). Cognitive Tutoring Software in Basic Math Courses: Broadening Perspectives on Mathematics Thinking and Learning, In Mara V. Martinez and Alison Castro Superfine (Eds.), Proceedings of the Twenty-Fifth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education PMENA'2013, Chicago, Illinois, November 14-17, 2013, p. 574.
- Viera, J., Kosheleva, O. (2013), Using authentic and culturally relevant curriculum in mathematics teaching of ELL students: how Mayan number representations help teach alternative representation of base-10 number and operations. Abstracts of the 1st Annual English Language Learners (ELL) Conference: Achieving in Mathematics for all Students in New Mexico (NM) - Si se puede!, Las Cruces, New Mexico, August 23, 2013, p. 7.
- Viera, J., Kosheleva, O., Munter, J. (2013). Teaching/Learning Basic Math Skills on an Online Context. Abstracts of the International Sun Conference on Teaching and Learning "Context Matters", El Paso, Texas, February 28 - March 1, 2013, p. 12.

RESEARCH CONFERENCE PRESENTATIONS

National Conferences

AERA, 2017: Paper Session on *Studying ELLs digital practices in an online environment to create equal learning opportunities*. San Antonio, TX. 4-5/17. (w/R. Kosheleva, O.).

- NCTM, 2017: Poster on *Creating equitable learning environments for ELLs through digital practices*. San Antonio, TX. 4/17. (w/R. Kosheleva, O.).
- NCTM, 2017: Workshop Presentation on *ELLs using linguistic capital to create equitable learning opportunities in an online math course*. San Antonio, TX. 4/17. (w/R. Kosheleva, O.).
- AMTE, 2017: Poster on *Using digital practices to create equitable learning environments in an online math course*. Orlando, FL. 2/17. (w/R. Kosheleva, O.).
- PME-NA, 2016: Poster on *Breaking language borders in an online pre-calculus course*. Tucson, AZ. 11/16. (w/R. Kosheleva, O.).
- NCTM, 2016: Workshop Presentation on *Translanguaging: How ELLs use language in an online pre-calculus course*. San Francisco, CA. 4/16. (w/R. Kosheleva, O.).
- NCTM, 2016: Workshop Presentation on *Challenges and successes in implementing culturally relevant activities for ELLs*. San Francisco, CA. 4/16. (w/R. Kosheleva, O.).
- NCTM, 2016: Workshop Presentation on *Challenges and successes in implementing culturally relevant activities for ELLs Presentation*. San Francisco, CA. 4/16. (w/R. Kosheleva, O., Lynch-Arroy, R.).
- NMMATYC, 2015: Workshop Presentation on *Representations and operations with numbers using Mayan ideas*. El Paso, TX. 4/15. (w/R. Kosheleva, O.).
- FIE_EDAS, 2015: Panel session on *English Language Learners' use of language in an online pre-calculus course*. El Paso, TX. 4/15. (w/R. Kosheleva, O.).
- NAME, 2015: Roundtable on *English Language Learners' online literacy practices in an online math course*. New Orleans, LA. 11/15. (w/R. Kosheleva, O.).
- AERA, 2014: Roundtable Session on *Improving Practice and Policy on College Access for Latina/o Students: Researching Innovative 'Intelligent' Tutoring Systems*. Philadelphia, PA. 4/14. (w/R. Kosheleva, O.).
- PME-NA, 2013: Poster on *The effectiveness of cognitive (intelligent) tutoring software in basic math courses*. Chicago, IL. 11/13. (w/R. Munter, J., Kosheleva, O.).
- NAME, 2013: Roundtable on *A better world: Exploring new approaches to 'mathematics college readiness' for underrepresented Hispanic students*. Oakland, CA. 11/13. (w/R. Munter, J., Kosheleva, O.).
- NNER, 2013: Roundtable on *Enhancing student learning through technology access:*

Focusing on social justice. Albuquerque, NM. 10/13. (w/R. Munter, J., Kosheleva,O.).

State/Regional conferences

Sun Conference, 2013. *Presentation on The effectiveness of a cognitive learning computer system in improving basic math skills for pre-calculus students.* El Paso, TX. 3/13. (w/R. Munter, J., Kosheleva,O.).

TxAATE, 2013. Roundtable on *College Readiness for Hispanic Future Teachers: The effectiveness of a cognitive learning computer system in improving mathematics skills.* Austin, TX. 5/13. (w/R. Munter, J., Kosheleva,O.).

MC2-ELL conference, 2013: Presentation on *Using authentic and culturally relevant curriculum in mathematics teaching of ELL students: how Mayan number representations help teach alternative representation of base-10 number and operation.* Las Cruces, NM. 7/13. (w/R. Kosheleva, O.).

Circle Conference, 2013: Presentation on *Exploring new approaches to 'mathematics college readiness' for underrepresented Hispanic students.* El Paso, TX. 7/13. (w/R. Munter, J., Kosheleva,O.).

TEACHING

- MTED 3330 - Integration and Alternative Representation of Basic Mathematical Principles
- Math 1508 - Pre-Calculus
- Math 1411 - Calculus I
- Math 1312 - Calculus II
- Math 1319 - Mathematics in the Modern World
- Math 0310 - Introductory Algebra
- Math 0311 - Intermediate Algebra
- Math 1320 - Math for Social Sciences and Business I
- Math 2301 - Math for Social Sciences and Business II
- Math 2326 - Differential Equations

COURSES DEVELOPED

- Fully online Pre-Calculus.
- Fully online Mathematics in the Modern World
- Hybrid Pre-calculus and Calculus.
- Co-designed online Math for Social Science I.
- Math 1508/1411 A, B and C
Co-design parts of term courses to replace modular pre-calculus and calculus I program.

ADMINISTRATIVE ACTIVITIES

Coordinator of Pre-Calculus and Calculus I. 2010 – Present. University of Texas at El Paso.

Responsibilities include oversight of:

- Coordinating committee meeting and course curriculum.
- Facilitating faculty scheduling.
- Administrating retake exams
- Orientation of new and adjunct faculty.
- Planning and implementation of winter-mester and may-mester workshops

Director of Modular Pre-Calculus and Calculus I. 2009 – 2010. University of Texas at El Paso

Responsibilities include oversight of:

- Overseeing progress of 1500 students through modules
- Planning and maintaining of student module schedules.
- Maintaining student grades through modules
- Coordinate departmental exams.
- Facilitating test-out exams

Developmental Math Coordinator. 1999 – 2007. University of Texas at El Paso

Responsibilities include oversight of:

- Facilitating faculty meetings
- Planning and implementing course curriculum
- Writing departmental exams

RELATED ACTIVITIES

Co-developed TSI pre assessment module, 2013.

ABET Computing and Engineering Accreditation Commission interview, 2013.

Parts of Term Pre-calculus/Calculus transition team, 2011

ASSOCIATION MEMBERSHIPS

American Educational Research Association – Division C since 2016

American Educational Research Association – Division K since 2014

Association of Mathematics Teacher Educators 2016

National Association for Multicultural Education (NAME) since 2013

North American Chapter of the international Group for the Psychology of Mathematics Education, since 2013.

LANGUAGES

- English: fluent
- Spanish: fluent
- French: read

SERVICE TO COLLEGE

Texas Success Initiative (TSI) assessment implementation committee, 2013.

Text book committee, spring 2006

Curriculum committee for Developmental Math, 2005 – 2007

Online Faculty Learning Community, 2009 – Present

COMMUNITY SERVICE

- Joseph B. Karam Scholarship Fund
- Race for the Cure
- El Paso Community Foundation and the Tour de Tolerance
- Center against Family Violence
- FEMAP foundation.
- Las Americas Immigrant Advocacy Center

PROFESSIONAL CERTIFICATES

Texas Teacher Certification 1997.