CURRICULUM VITAE

Mourat A. Tchoshanov

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Highlights of Professional Career

- Award for Outstanding Effort in Securing Extramural Funding, Office of Research and Sponsored Projects, 2016, UT-El Paso, TX
- Award for Supervision of Outstanding Doctoral Dissertation, Graduate School, 2015, UT-El Paso, TX
- Fulbright Scholar Award, Council for International Exchange of Scholars, 2010, Washington, DC
- UT-System Regents' Outstanding Teaching Award, 2010, Austin, TX
- Excellence in Teaching Award, 2009, College of Education, UT-El Paso, TX
- Outstanding Scholarly Performance Award, Office of Research and Sponsored Projects, 2008-09, UT-El Paso, TX
- Excellence in Scholarship Award, 2003, College of Education, UT-El Paso, TX
- Excellence in Teaching Award, 2001, College of Education, UT-El Paso, TX
- Total grant expenditures as a Principal Investigator \$2,360,191.00.

Education and Qualification

- **1996 Doctor of Science's Degree (Sc.D.)** in Didactics of Mathematics, Kazan State Pedagogical University (Kazan, Russia). Dissertation: "Theory and Technology of Problem-Based Modular Teaching and Learning at Secondary School"
- **1987 Candidate of Science's Degree (Sc.C.)** in Didactics of Mathematics, Kazan State Pedagogical Institute (Kazan, Russia). Dissertation: "Development of Generalized Methods of Problem Solving as a Tool of Content Integration"
- **1980** Specialist's Degree (S.D.), major Mathematics, minor Secondary Education, Turkmen State Pedagogical Institute (Chardjou, Turkmenistan). Thesis: "Conceptual Use of Multi-Variable Integration in Teaching Secondary Mathematics"

Teaching Experience

- 2005-pr. Professor of Mathematics Education (joint appointment), Department of Teacher Education, STEM Education Division, College of Education, Department of Mathematical Sciences, College of Science, University of Texas at El Paso (El Paso, TX)
- **2006-08** Chair, STEM Education Division, Department of Teacher Education, College of Education, University of Texas at El Paso (El Paso, TX)
- **2000-04** Associate Professor, Mathematics Education, Department of Teacher Education, College of Education, University of Texas at El Paso (El Paso, TX)
- **1997-98** Professor, Department of Higher Mathematics, Kostroma State Technological University (Kostroma, Russia)

- **1997-98** Professor (*part-time*), Department of Mathematics Education, Kostroma State Pedagogical University (Kostroma, Russia)
- **1992-97** Professor and Chair, Department of Higher Mathematics, Tatar-American Regional Institute (Kazan, Russia)
- **1992-97** Associate Professor (*part-time*), Department of Teacher Education, Teachers Training Institute (Kazan, Russia)
- **1989-92** Assistant Professor (*part-time*), Department of Mathematics Education, Kazan State Pedagogical Institute (Kazan, Russia)
- **1985-89** Instructor (*part-time*), Department of Mathematics, Secondary School (Kazan, Russia)
- **1980-82** Instructor, Department of Mathematics and Science, Secondary Vocational School (Chardjou, Turkmenistan)

Courses Taught

At Bachelor's Level:

- MSED4310 "Teaching Mathematics in Intermediate and Middle Grades"
- SCED4367 "Teaching Mathematics in Secondary School"
- MTED3330 "Integration and Multiple Representations of Basic Mathematical Principles"
- MATH3300 "History of Mathematics"

At Master's Level:

- MTED5320 "Research-based Practices in Mathematics Classroom"
- MATH5360 "Introduction to Research in Mathematics Education"
- MTED5318 "Current Topics: Learning Theory in Mathematics Classroom"
- MTED5322 "PCK Development of Quantitative Reasoning"
- MATH5370 "Algebraic Reasoning"
- MATH5370 "Geometric Reasoning"
- MTED5326 "Cultural Historical Epistemology and Pedagogy of Mathematics"
- MTED5324 "Authentic Assessment in Mathematics Classroom"
- TED5395 "Independent Studies"
- TED5398 "Thesis"

At Doctoral Level:

- TED6310 "Learning Sciences"
- MTED6330 "Teacher Development in Mathematics and Science Education"
- TED6395 "Independent Studies"
- TED6305 "Practicum"
- TED6398 "Dissertation"

Research Fellowships

- 2010 Fulbright Scholar, Core Fulbright U.S. Scholar Program, Council for International Exchange of Scholars, U.S. Department of State (Washington, DC)
- **2003-pr.** Member of the Center for Research on Educational Reform, College of Education, University of Texas at El Paso (El Paso, TX)
- **2000-03** CETAL Fellow, Center for Effective Teaching and Learning, Research on Cognition and Visualization, UTEP (El Paso, TX)
- **1998-99** Visiting Scholar, Comparative Mathematics Education, School of Teaching and Learning, Ohio State University (Columbus, OH)

- **1997-98** Senior Research Associate, Research on Innovative Technologies in Mathematics Education, Kostroma State Pedagogical University (Kostroma, Russia)
- **1994-95** Fulbright Visiting Scholar, Junior Faculty Development Program, Council for International Exchange of Scholars, U.S. Department of State (Washington, DC)

Leadership Experience

- **2012-15** Director, Ph.D. in Teaching, Learning, and Culture Program, Department of Teacher Education, University of Texas at El Paso (El Paso, TX)
- 2006-08 Chair, STEM Education Division, Department of Teacher Education, College of Education, University of Texas at El Paso (El Paso, Texas)
- **1997-98** Head, Research Laboratory on Innovative Technologies in Mathematics Education, Kostroma State Pedagogical University (Kostroma, Russia)
- **1992-97** Chair, Higher Mathematics and Computer Science Department, Tatar-American Regional Institute (Kazan, Russia)

Editorial Professional Service

- 2016-pr. Member of the Editorial Board, journal "Pedagogika" (Moscow, Russia)
- **2013-pr.** Member of the Editorial Board, journal "Integration of Education" (Saransk, Russia)
- **2013-pr.** Member of the Editorial Board, journal "Education and Self-development" (Kazan Federal University, Kazan, Russia)
- **2013-pr.** Member of the Editorial Board, journal "Education and Science" (Yekaterinburg, Russia)
- **2013-pr.** Member of the Editorial Board, journal "Kazan Pedagogical Journal" (Kazan, Russia)
- 2004-pr. Member of the Editorial Board, journal "Teacher" (Moscow, Russia)
- **2001-pr.** Member of the Editorial Board, International Electronic Journal "Education: Investigated in the World" (Moscow, Russia)

Participation in Doctoral Program Committees

- **2009-15** Member, Ph.D. in Teaching, Learning, and Culture Doctoral Program Committee, Department of Teacher Education, UTEP (El Paso, TX)
- **1996-97** Member, Doctoral Program Committee in Pedagogical Sciences, Kazan State University, (Kazan, Russia)
- **1997-98** Member, Doctoral Program Committee in Teacher Education, Kostroma State Pedagogical University, (Kostroma, Russia)

Supervision of Dissertations

A. Defended

- 2018 "Beyond teacher knowledge: Connections between content knowledge, mindset for learning, and teaching in two-year college mathematics faculty", Lucy Michal, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX
- **2017** "Teacher challenges in implementing cognitively demanding tasks in mathematics and science classrooms", Angelica Monarrez, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX

- 2016 "Secondary mathematics teachers' disposition toward challenge and its impact on teaching practice", Yirah Valverde, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX
 "Am I another statistic: A phenomenological study of border region at-risk Latina/o youth", Virginia Martinez, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX
- 2015 "High School Mathematics Teachers' Connective Knowledge of the Challenges and Possibilities in Implementing the Flipped Learning Model: An Embedded Mixed-Methods Study", Karla Huereca, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX
 "Borderland pedagogy study of high school mathematics teachers' lesson plan development and implementation practices", Rocio Gallardo, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX
 "Pre-service elementary teachers' affective dispositions toward mathematics", Benjamin McDermott, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX
 "Challenges in assessing college students' conception of duality: The case of

infinity", Grace Babarinsa, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX

- **2014** "Relationship Between Cognitive Types of Teacher Content Knowledge and Knowing-to Act: A Mixed Methods Study of Mexican Borderland Middle School Teachers"¹, Maria Cruz Quinones, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX
- 2013 "Complexity of affective disposition and reflective transphenomenality: An exploratory study of middle school mathematics teacher and students self-positioning and positioning-by-others toward mathematics, mathematics teaching, and learning", Ruby Lynch-Arroyo, Ph.D. in Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX "Connected mathematics learning and gender equity in predominately Latino/a high school: Case of spatial reasoning", Raymond Falcon, Ph.D. in Teaching, Learning, Learning, and Culture, University of Texas at El Paso, El Paso, TX

B. At candidacy level

"Secondary mathematics teachers' disposition toward mistakes in the context of learning and teaching", Mariana Alvidrez, Teaching, Learning, and Culture, University of Texas at El Paso, El Paso, TX

Membership in Advisory Boards

- 2002-05 Advisory Board Member for FIPSE (State Department of Education) project "Supporting and Strengthening Standards-based Mathematics Teacher Preparation", Austin, TX
- **2003–06** Screening Board Member for Mathematics Science Partnership (National Science Foundation) grant, El Paso, TX

Areas of Scientific Research

- Teacher Knowledge, Teaching Practice, and Student Achievement
- Calculus Conceptual Understanding Study: Early Development of Advanced Mathematics Concepts

¹ The dissertation received an Outstanding Doctoral Dissertation Award by the Graduate School of the University of Texas at El Paso, El Paso, TX

• Teachers-as-Engineers: Content-oriented Didactical Engineering

Major Grant Activities

- **2016-18** Co-PI, Teacher Quality Grant Program "Middle School Mathematics and Science Integration", Texas Higher Education Coordinating Board (\$290,000)
- **2015-16** PI, "Pathway to Calculus" Professional Development Partnership, Texas Education Agency (\$135,000)
- **2014-16** PI, Teacher Quality Grant Program "Mathematics and Science Feeder Pattern Integration", Texas Higher Education Coordinating Board (\$495,000)
- **2012-14** Co-PI, Teacher Quality Grant Program "Middle School Mathematics Project", Texas Higher Education Coordinating Board (\$311,591)
- 2009-12 PI, Teacher Quality Grant Program "Strengthening Middle Grades Teachers' Quantitative and Algebraic Reasoning", Texas Higher Education Coordinating Board (\$350,359)
- **2007-09** PI, Teacher Quality Grant Program "Improving Middle Grades Teachers' Quantitative Reasoning in Teaching and Classroom Research", Texas Higher Education Coordinating Board (\$173,963)
- **2005-07** PI, "Improving Student Achievement in Mathematics through Professional Development Partnership", Texas Education Agency (\$132,280)
- **2002-07** PI, Teacher Quality Grant Program "Strengthening Middle Grades Teachers' Quantitative and Algebraic Reasoning", Texas Higher Education Coordinating Board (multi-year grant, total grant amount - \$401,998)

Journal Reviewer

- 2015-pr. Journal for Research in Mathematics Education
- **2013-pr.** Educational Studies in Mathematics
- **2012-pr.** ZDM: International Journal in Mathematics Education
- 2012-pr. Journal of Mathematical Behavior
- **2010-pr.** Journal of Mathematics Teacher Education

Membership in Scholarly Associations

- PME Psychology of Mathematics Education (North American & International)
- AERA American Educational Research Association
- MAA/ AMS Mathematical Association of America/ American Mathematical Society
- AMTE Association of Mathematics Teacher Educators
- NCTM National Council of Teachers of Mathematics

List of Publications and Presentations

A. Articles in Peer-Reviewed Journals

Work-in-progress

Monarrez, A., Tchoshanov, M. (2018, accepted with major revisions). Unpacking teacher challenges in recognizing, solving, designing, and implementing cognitively demanding tasks in secondary school mathematics classrooms. *Research in Mathematics Education*.

Lynch-Arroyo, R., Tchoshanov, M. (2018, under review). Math is beautifully intimidating: The conflict between teacher affective self-reported disposition and observed positioningby-others. *Journal for Research in Mathematics Education*.

Published

- Tchoshanov, M., Cruz, M., Shakirova, K., Ibragimova, E., Shakirova, L. (2017). Analyzing connections between teacher and student topic-specific knowledge of lower secondary mathematics. *Journal of Mathematical Behavior*, *47*, 54-69.
- Tchoshanov, M., Cruz, M., Shakirova, K., Ibragimova, E., Shakirova, L. (2017). Comparative analysis of mathematics teachers' content knowledge in USA and Russia through the lens of TIMSS results. *Education and Self-Development*, *12*, *1*(50), 23-33.
- Tchoshanov, M., Cruz, M., Huereca, K., Shakirova, K., Shakirova, L., Ibragimova, E. (2017). Examination of lower secondary mathematics teachers' content knowledge and its connection to students' performance. *International Journal of Science and Mathematics Education*, 15(4), 683–702.
- Tchoshanov, M., Kosheleva, O., Kreinovich, V. (2016). From equations to tri-quations and multi-quations. *International Journal of Contemporary Mathematical Sciences*, Vol. 11(3), 105-111.
- Tchoshanov, M. (2016). Didactical engineering, or how to teach in the digital age. *Narodnoe Obrazovanie, Vol. 4*, 41-54. [In Russian]
- Cruz Quiñones, M., Tchoshanov, M., Ramírez, O., Flores, S. (2016). Un estudio cuantitativo del conocimiento del contenido del maestro de matemáticas y su "saber actuar" en el aula. En el Acta Latinoamericana de Matemática Educativa (pp. 1163-1169), Vol. 29: Comité Latinoamericano de Matemática Educativa, CLAME. [In Spanish]
- Gabdulkhakov, V., Shakirova, D., Tchoshanov, M. (2016). Academician Makhmoutov a national intellectual treasure. *Education and Self-Development, Vol. 1(47)*, 145-147. [In Russian]
- Tchoshanov, M., Martinez, V. (2014). The system of evaluation and recognition of teaching at the U.S. universities. *Education and Self-development*, 4(42), 221-232.
- Huereca, K., Tchoshanov, M., de la Piedra, M. (2013). Conceptualization and operationalization of flipped mathematics learning through professional learning communities in a Mexico-U.S. borderland region. *Education and Self-development*, 4(38), 217-224.
- Tchoshanov, M. (2013). e-Didactics: New perspective on the theory of teaching and learning in the digital age. *Educational Technology and Society*. *3*(*16*), 684-696. [In Russian]
- Tchoshanov, M. (2013). Education and national security: Systemic mistakes in mathematics education in Russia and the U.S. *Education and Science*, 8(107), 14-31. [In Russian]
- Tchoshanov, M. (2013). Mathematics the Russian brand: How to secure it? Part 1. *Mathematics in School, Vol. 4*, 3-7. [In Russian]
- Tchoshanov, M. (2013). Mathematics the Russian brand: How to secure it? Part 2. *Mathematics in School, Vol. 5,* 4-9. [In Russian]
- Valverde, Y., Tchoshanov, M. (2013). Secondary mathematics teachers' disposition toward challenge and its effect on teaching practice and student performance. *Kazan Pedagogical Journal*, 3(98), 25-33.
- Tchoshanov, M. A. (2012). Teacher training in the U.S. as a factor of national security. *Education and Self-development*, 5(33), 208-216. [In Russian]
- Tchoshanov, M. A., Chapaev, N. K. (2012). The technology of integration in the U.S. pedagogy. *School Technologies, Vol.* 2, 72-85. [In Russian]
- Tchoshanov, M. A. (2011). Building student's mathematical proficiency: Connecting mathematical ideas using the Tangram. *Learning and Teaching Mathematics*, *10*, 16-23.
- Tchoshanov, M. A. (2011). Relationship between teacher content knowledge, teaching practice, and student achievement in middle grades mathematics. *Educational Studies in Mathematics*, 76(2), 141-164.
- Tchoshanov, M. A. (2011). Learning systems in distance education. *School Technologies*, *4*, 81-88. [In Russian]

- Tchoshanov, M. A. (2010). Quantitative study on teacher quality: Case of middle grades mathematics. *International Journal for Studies in Mathematics Education, Vol. 3, #1,* 44-73.
- Tchoshanov, M. A. (2010). Engineering of learning technology in online education. *Journal* of Educational Technology and Society, Vol. 13(3), 471-482. [In Russian]
- Tchoshanov, M. A. (2010). Cultural-historical aspect of the equity principle in the US mathematics education. *Journal of Multicultural Language Education, Vol.* 7(2), 9-13. [In Russian]
- Tchoshanov, M. A. (2009). Where didactics come from? Uchitel', Vol. 3, 70-73. [In Russian]
- Tchoshanov, M. A., Lesser, L., Salazar, J. (2008). Teacher knowledge and student achievement: Revealing patterns. *Journal of Mathematics Education Leadership*, Vol. 13, 39-49.
- Tchoshanov, M. A. (2008). Didactical engineering: didactics of the new era. *Direktor scholy*, *Vol. 5*, 44-49. [In Russian]
- Tchoshanov, M. A. (2006). Information technology in mathematics teaching and learning. *Educational Technology and Society*, 9(4), 315-320. [In Russian]
- Lesser, L., Tchoshanov, M. A. (2006). Selecting representations. *Texas Mathematics Teacher, Vol. LIII, Issue 2*, 20-26.
- Tchoshanov, M. A., Fahey, J, Vorontsova, O. (2005). Lessons learned from research on modular instruction. *Uchitel'*, *Vol. 4*, 43-50. [In Russian]
- Blake, S., Pape, S., Tchoshanov, M. A. (2004). Applying achievements in neuro-psychology to pedagogy. *Pedagogika*, *Vol. 5*, 63-68. [In Russian]
- Presmeg, N., Tchoshanov, M. A. (2004). How to learn to see the roots of the problem: Visualization in teaching and learning mathematics. *Uchitel'*, *Vol. 2*, 45-51. [In Russian]
- Blake, S., Pape, S., Tchoshanov, M. A. (2003). Memory is not a storehouse, but a library: Integrating neuropsychological principles in pedagogy. *Uchitel' Goda*, Vol. 3, 83-87. [In Russian]
- Blake, S., Della-Piana, C., Pacheco, A., Brady, T., Tchoshanov, M. A. (2003). Keeping the whole village together: Sharing responsibility for the learning of all students. *National Forum of Teacher Education Journal. Vol. 13, Number 1*, 43-52.
- Tchoshanov, M. A. (2002). Portfolio: everything that I know and able to do... *Uchitel' Goda*, *Vol. 4*, 84-88. [In Russian]
- Pacheco, A., Blake, S., Brady, T., Duval, A., Della-Piana, C., Lopez, J., Tchoshanov, M. A. (2001). Clinical model in teacher preparation: Win-win situation for all. *Direktor Schkoly*, *Vol. 5*, 56-63. [In Russian]
- Pape, S., Tchoshanov, M. (2001). The role of representation(s) in developing students' mathematical understanding. *Theory into Practice: Realizing Reform in School Mathematics. Vol.* 40(2), 118-127.
- Tchoshanov, M. A. (2000). School assessment: New vision of an old problem. *Pedagogika*, *Vol. 10*, 95-102. [In Russian]
- Tchoshanov, M. A. (2000). Analysis of the U.S. school mathematics standards. *Matematika v shkole*, *Vol. 5*, 74-78. [In Russian]
- Tchoshanov, M. A. (2000). Review of taxonomies of educational objectives. *Pedagogika*, *Vol. 4*, 86-92. [In Russian]
- Tchoshanov, M. A. (2000). Process of permanent construction and re-organization. *Direktor Schkoly*, *Vol. 4*, 56-63. [In Russian]
- Tchoshanov, M. A. (2000). TMI theory of multiple intelligences. *Direktor Schkoly*, Vol. 3, 69-76. [In Russian]
- Tchoshanov, M. A. (2000). Certification of school mathematics teachers in the USA. *Matematika v shkole. Vol. 2*, 73-76. [In Russian]

- Pape, S., Tchoshanov, M. A. (2000). Learning portfolio as an alternative assessment technique. *Direktor Schkoly*, *Vol. 1*, 75-83. [In Russian]
- Zuga, K., Tchoshanov, M. A. (1999). Team teaching in the framework of integration of Mathematics, Science, and Technology Education. *Direktor Schkoly*, Vol. 8, 67-75. [In Russian]
- Tchoshanov, M. A. (1999). Methods of cooperative teaching and learning. *Direktor Schkoly*, *Vol. 5*, 75-79. [In Russian]
- Tchoshanov, M. A. (1999). Small groups: Cooperative learning techniques. *Direktor Schkoly*, *Vol. 4*, 65-73. [In Russian]
- Tchoshanov, M. A. (1999). Analysis of college mathematics standards in the USA (Part 1). *Specialist, Vol. 4,* 30-32. [In Russian]
- Tchoshanov, M. A. (1999). Analysis of college mathematics standards in the USA (Part 2). *Specialist, Vol. 5,* 27-30. [In Russian]
- Tchoshanov, M. A. (1997). Didactic construction of flexible pedagogical technology. *Pedagogika*, Vol. 2, 21-30. [In Russian]
- Tchoshanov, M. A. (1996). Know-how of pedagogical technology design. *Professional Education*, Vol. 2, 68-78. [In Russian]
- Tchoshanov, M. A. (1994). Differentiation of education in the American colleges. *Narodnoe obrazovanie*, *Vol.* 6, 75-77. [In Russian]
- Tchoshanov, M. A. (1993). Mathematics in pictures. *Narodnoe obrazovanie*, *Vol. 1*, 64-70. [In Russian]
- Tchoshanov, M. A. (1992). Cognitive visualization in mathematical teaching/learning. *Better*, *Vol. 2*, 9-16. [In Japanese]
- Tchoshanov, M. A. (1991). Joyous classes, or why Japanese students like math? *Narodnoe obrazovanie*, *Vol. 12*, 53-58. [In Russian]
- Tchoshanov, M. A. (1991). Mathematics education in the U.S. colleges. *Matematica v shkole*, *Vol. 6*, 65-68. [In Russian]
- Tchoshanov, M. A. (1991). Techniques of problem-based modularization. *Srednee special'noe obrazovanie*, *Vol. 9*, 23-25. [In Russian]
- Tchoshanov, M. A. (1991). Problem-modular design of mathematics curriculum in secondary school. *Srednee special'noe obrazovanie*, *Vol.* 8, 13-16. [In Russian]
- Tchoshanov, M. A. (1991). The essence of problem-modular instruction. *Srednee special'noe obrazovanie*, *Vol.* 7, 10-13. [In Russian]
- Tchoshanov, M. A., Liseitchikov, O.E. (1990). Minimum of classes maximum of efficiency. *Narodnoe obrazovanie*, *Vol.* 8, 74-80. [In Russian]
- Tchoshanov, M. A. (1990). Diagnostic skills of students. *Sovetskaja pedagogika*, Vol. 3, 40-45. [In Russian]
- Tchoshanov, M. A. (1989). In search for innovative methodology... *Narodnoe obrazovanie*, *Vol. 11*, 70-75. [In Russian]
- Tchoshanov, M. A. (1989). How to learn by mistakes. *Sovetskaja pedagogika*, *Vol. 9*, 78-81. [In Russian]
- Tchoshanov, M. A. (1989). Using a block-module. *Professional'no-technicheskoe* obrazovanie, Vol. 9, 77-85. [In Russian]
- Tchoshanov, M. A. (1989). Find an error. *Professional'no-technicheskoe obrazovanie*, Vol. 2, 78-80. [In Russian]

B. Papers in Peer-Reviewed Proceedings

Tchoshanov, M., Cruz Quinones, M., Shakirova, K., Ibragimova, E., Shakirova, L. (2017). Cross-national study of lower secondary mathematics teachers' content

knowledge in the USA and Russia. *Proceedings of the 10th Congress of European Research in Mathematics Education Conference*, Dublin, Ireland, 2017, 8p.

- Tchoshanov, M., Kosheleva, O., Kreinovich, V. (2016). On the importance of duality and multi-ality in mathematics education. *Proceedings of the 5th International Conference* "*Mathematics Education: Theory and Practice*" MATHEDU-2015, Kazan, Russia, November 27-28, 2015, 8-13.
- Tchoshanov, M. (2016). How systemic errors impact the quality of education. Proceedings of the Second International Conference of Higher School of Economics "Contemporary Educational Organization: Models, mechanisms, and technology", Perm, Spring 2016, 52-64. [In Russian]
- Cruz, M., Tchoshanov, M., Paez, C., Gallardo, R., Cruz Quiñones, M. (2016). Understanding the knowing-to act of middle school teachers in the Mexican borderland. In Wood, M. B., Turner, E. E., Civil, M., & Eli, J. A. (Eds.). *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1604-1607). Tucson, AZ: The University of Arizona.
- Arroyo, R.L., Tchoshanov, M.A. (2014). Sage and Thyme: Cases of teacher affective disposition through the lens of reflective transphenomenality. In Matney, G. T. and Che, S. M. (Eds.). *Proceedings of the 41th Annual Meeting of the Research Council on Mathematics Learning*, San Antonio, TX, 72-79.
- McDermott, B., Tchoshanov, M.A. (2014). Collaborative analysis of pre-service teachers' drawings of learning. In Matney, G. T. and Che, S. M. (Eds.). *Proceedings of the 41th Annual Meeting of the Research Council on Mathematics Learning*, San Antonio, TX.
- Tchoshanov, M. (2014). Engineering and didactics: Blended approach. In *Proceedings of the Second Baltic Higher Education Forum,* Kaliningrad, Russia, 94-98. [In Russian]
- Cruz, M., & Tchoshanov, M. (2014). Relationship between cognitive types of teacher content knowledge and teaching experience: Quantitative study of Mexican borderland middle school teachers. In Matney, G. T. and Che, S. M. (Eds.). *Proceedings of the 41th Annual Meeting of the Research Council on Mathematics Learning*, 138-145. San Antonio, TX.
- Tchoshanov, M. (2014). Problems in the U.S. mathematics education. In *Proceedings of the MATHEDU-2014 Conference*. Kazan: Kazan University Press, 18-26. [In Russian]
- Valverde, Y., Tchoshanov, M. (2014). High school mathematics teachers' avoidance of challenge and its effect on teaching practice: Case of Lorenzo. In *Proceedings of the MATHEDU-2014 Conference*. Kazan: Kazan University Press, pp. 1-8.
- Babarinsa, G., Tchoshanov, M., McDermott, B. (2013). Levels of college students' conception of duality. In *Proceedings of the 35th International Conference on the Psychology of Mathematics Education North America*, Chicago, IL.
- Tchoshanov, M., Cruz, M., Huereca, K. (2013). Correlation study of middle school mathematics teachers' content knowledge and student achievement in Russia. In Proceedings of the 35th International Conference on the Psychology of Mathematics Education – North America, Chicago, IL.
- Monarrez, A., Tchoshanov, M. (2013). Teacher's understanding of cognitive demand. In *Proceedings of the 35th International Conference on the Psychology of Mathematics Education North America*, Chicago, IL.
- Gallardo, R., Tchoshanov, M. (2013). Cross-country borderland study of high school mathematics curriculum in Mexico and USA. In *Proceedings of the 35th International Conference on the Psychology of Mathematics Education North America*, Chicago, IL.
- Cruz, M., Huereca, K., Tchoshanov, M. (2013). Comparative analysis of mathematics teacher preparation in Mexico and the United States. In *Proceedings of the 35th International Conference on the Psychology of Mathematics Education – North America*, Chicago, IL.

- Arroyo, R. L., McDermott, B., & Tchoshanov, M. (2012). Assessing Pre-Service Elementary Teachers' Disposition Toward Mathematics Using Open-Ended Metaphor. In Van Zoest, L.R., Lo, J-J., and Kratky, J.L. (Eds.). Proceedings of the 34th International Conference on the Psychology of Mathematics Education – North America, Kalamazoo, MI: Western Michigan University, 689-692.
- Huereca, K., Cruz, M. D., Tchoshanov, M., Stefanova, N. (2012). Curriculum analysis of secondary mathematics teacher preparation in Russia: Transitioning to new standards. In Van Zoest, L.R., Lo, J-J., and Kratky, J.L. (Eds.). *Proceedings of the 34th International Conference on the Psychology of Mathematics Education North America*, Kalamazoo, MI: Western Michigan University, 785.
- Babarinsa, G., Tchoshanov, M., & McDermott, B. (2012). Challenges in assessing college students' conception of duality: Case of infinity. In Van Zoest, L.R., Lo, J-J., and Kratky, J.L. (Eds.). *Proceedings of the 34th International Conference on the Psychology of Mathematics Education North America*, Kalamazoo, MI: Western Michigan University, 998.
- Tchoshanov, M. (2012). Teacher training in the US: Problems and perspectives. *Proceedings* of the International Conference "Pedagogical Education in Russia: Past, Present, and *Future*", Kazan Federal University, Kazan, 462-484. [In Russian]
- Tchoshanov, M. (2010). Analysis of school mathematics standards in the US. Proceedings of the All-Russia Scientific Conference "Mathematics Education at Secondary Schools and Colleges in the light of New Educational Standards", Tatar State Humanitarian-Pedagogical University, Kazan, 7-18. [In Russian]
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