CURRICULUM VITA

MARA ALAGIC

Associate Professor, Curriculum and Instruction

Graduate Coordinator - Master of Education in Learning and Instructional Design

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Editor-in-Chief: Journal of Mathematics and the Arts, Taylor & Francis, UK

Professional Preparation

Ph. D. dissertation: **Categorical Views of Some Relational Models**, Department of Mathematics, University of Belgrade, Yugoslavia.

M. Sci. in Mathematics: **Category of Multivalued Mappings (Hypertopology)** Department of Mathematics, University of Belgrade, Yugoslavia.

BS in Mathematics, Department of Mathematics, University of Belgrade, Yugoslavia.

Appointments

2005 - ongoing, Department of Curriculum and Instruction, Wichita State University, Kansas

Associate professor

2009 - 2012 Wichita State University, Kansas Graduate School Assistant Dean (half time)

1999 2005 Department of Curriculum and Instruction, Wichita State University, Kansas

Assistant Professor

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Selected Publications

- Rimmington, G. M., & Alagic, M. (2016). Corporate Social Responsibility: ThirdPlaceLearning for Absorbing Diverse Perspectives. In Hansen, K., & Seierstad, C. (Eds.). Corporate Social Responsibility and Diversity Management: Theoretical Approaches and Best Practices (pp. 269-288). Springer International Publishing.
 - (In the Series CSR, Sustainability, Ethics & Governance, Springer) Springer
- Alagic, M., Orel, T. & Rimmington, G. (2016): Toward Dynamic Representations of ThirdPlaceLearning. Proceedings of the TKE 2016 12th International Conference on Terminology and Knowledge Engineering, June 2016 Copenhagen Business School, CBS http://openarchive.cbs.dk/handle/10398/9323 (Proceedings) https://dl.dropboxusercontent.com/u/27766628/TKE%202016%20present_ALAGIC.pdf (paper) http://openarchive.cbs.dk/handle/10398/9323 (Proceedings)
- Flores, R., Koontz, E., Inan, F. A., & Alagic, M. (2015). Multiple representation instruction first versus traditional algorithmic instruction first: Impact in middle school mathematics classrooms. **Educational Studies in Mathematics**, **89**(2), 267-281.
- Orel, T., Alagic, M., & Rimmington, G. (2014). Concept System Analysis of the ThirdPlaceLearning Theory. In Terminology and Knowledge Engineering 2014, (pp. 10-p).
- Alagic, M. (2014). Preservice Elementary Teachers: Creative Thinking, Pedagogy and MathArt Projects. In George W. Hart G. W. & Sarhangi, R. (2014) Proceedings of Bridges 2014: Mathematics, Music, Art, Architecture, Culture, Seoul, Korea. Phoenix, Arizona, 317-320. http://archive.bridgesmathart.org/2014/bridges2014-317.pdf
- Alagic, M. (2013). Teacher Candidates' Perceptions of Mathematical, Cognitive and Pedagogical Fidelity of the "fill & pour" Virtual Manipulative. Martinez, M. & Superfine, C. A. (Eds.). (2013). Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Chicago, IL: University of Illinois at Chicago, (p. 119 126).
- Alagic, M., & Rimmington, G., (2013). Google Earth: Mathematical Art Forms. In George W. Hart G. W. & Sarhangi, R. (2013) Proceedings of Bridges 2013: Mathematics, Music, Art, Architecture, Culture. Enshede, Netherlands, 523—526. http://archive.bridgesmathart.org/2013/bridges2013-523.pdf

- Liu, F., & Alagic, M. (2013). Changing preservice elementary teachers' perceptions of teaching and learning the metric system. **Journal of Mathematics Education, 6,** 1-16.
- Alagic, G. & Alagic, M. (2012). Collaborative mathematics learning in online environments. In Martinovic, D; Freiman, V. & Karadag, Z. (Eds.). Visual Mathematics and CyberlearningSeries: **Mathematics Education in the Digital Era,** Vol. 1, Springer.

Rimmington, G., Alagic, M. & Blessinger, P. (2012). Global learning: still too expensive?

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- Huber-Warring, T, Mitchell, L., Alagic, M., & Gibson, I. (2005). Multicultural/diversity outcomes: Assessing students' knowledge bases across programs in one college of education. **Journal of Thought, 40**(3), 25-50.
- Alagic, M., Doyle, C., Gibson, K., Yeotis, C., & Kear, D. (2005). Redefining learning activities in ICT-based environments. **Proceedings of the**

- Rayl, N., & Alagic, M. (2004). Assessment using technology: A case study in computer aided drafting. Proceedings of the **Technology and its Integration in Mathematics Education (TIME-2004) Conference**, Montreal, Quebec, Canada.
- Thiel, Rae, & Alagic, M. (2004). TI-based learning environments: Developing conceptual understandings of functions-related concept. Proceedings of the **Technology and its Integration in Mathematics Education (TIME-2004) Conference**, Montreal, Quebec, Canada.
- Alagic, M., & Palenz, D. (2004). Cognitive tools for exploring linear and exponential growth.

 Proceedings of the **Technology and its Integration in Mathematics Education (TIME-2004) Conference**, Montreal, Quebec, Canada.
- Yeotis, C., Gibson, K., & Alagic, M. (2004, May). How Does a Learning Cycle Promote Self-Directed Learning? **Proceedings of the 6th International Conference on Education**, Athens, Greece.
- Thiel, Rae, & Alagic, M. (2004). Developing conceptual understandings of functions and Function-related concepts in graphing calculators based environment. **Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2004)**, Atlanta, Georgia, 2004(1), 4528-4535.
- Rimmington, G., Gibson, K., Gibson, I., & Alagic, M. (2004). The cage model of global learning.

 Proceedings of the International Society for Information Technology & Teacher Education
 International Conference (SITE 2004), Atlanta, Georgia, 2004(1), 3027-3032.
- Witherspoon, T., Reynolds, K., Copas, G., & Alagic, M. (2004). A model for an online, global, constructionist learning environment: Robotics around the world. **Proceedings of the International Society for Information Technology & Teacher Education International Conference (SITE 2004)**, Atlanta, Georgia, 2004(1), 3083-3088.
- Alagic, M., & Palenz, D. (2004). Cognitive Tools: Exploring linear and exponential growth.

 Proceedings of the International Society for Information Technology & Teacher Education
 International Conference (SITE 2004), Atlanta, Georgia, 2004(1), 4345-4352.
- Alagic, M., Gibson, K., & Doyle, C. (2004). The potential for autonomous learning through ICT.

 Proceedings of the International Society for Information Technology & Teacher Education
 International Conference (SITE 2004), Atlanta, Georgia, 2004(1), 1679-1684.
- Alagic, M. (2003). Technology in the mathematics classroom: Conceptual orientation. **Journal of Computers in Mathematics and Science Teaching (JCMST)**, 22(4), 381-399.
- Alagic, M., & Emery, S. (2003). Differentiating instruction with marbles: Is this algebra or what?

International Journal for Innovation in Mathematics Teaching and Learning. (Online: ISSN 1473 - 0111) http://www.intermep.org

Gibson, K., Watters, J., Alagic, M., Rogers, G., & Haack, C. (2003). Global learning technology: Developing pre-service

 $\textbf{Communication Technologies Conference}, \ \textbf{University of Cambridge}, \ \textbf{Cambridge}, \ \textbf{England}.$

- Alagic, M., Koert, D., Rillemma, P., & Whitman, L. (2004). National Science Foundation,
 Information Technology Experiences for Students, Directorate for Education and Human
 Resources Division of Elementary, Secondary, and Informal Education. Infusing Inquiry and
 IT into STEM Learning Environments: The Cognitive Apprenticeship Learning Environment
 Model (CALEM). Not funded 3 years, \$1,182,208.
- Shroyer, G., Alagic, M., Walter, B. K., Behrendt, T., & Heppert, J. (2003). Kansas Mathematics and Science Partnership (KMSP). National Science Foundation, Mathematics Science Partnerships. 5 years, \$32,104,135, not funded.
- Alagic, M. & Ellsworth, R. (2003). Anderson: Professional Development for Quality (A: PDQ). No Child Left Behind Improving Teacher Quality Grant. Kansas Board of Regents. 3 years, 159,755; first year awarded; second year awarded
- Kear, D., & Alagic, M. (2003). Enriching Learning and Assessment by Using Technology Effectively.

 University Research/Creative projects Award (URCA). Wichita State University. Wichita,

 Kansas. 1 semester, \$4493; awarded
- Alagic, M., & Ellsworth, R. (2003). Anderson: Professional development for quality (A:PDQ). No Child Left Behind Improving Teacher Quality Grant. Kansas Board of Regents Grant. Funded 3 years, \$159,755.
- Neal, S., Alagic, M., & Krehbiel, M. (2002). **BRIDGES: Connecting mathematics teaching, learning and applications.** No Child Left Behind Improving Teacher Quality Grant. Kansas Board of Regents Grant. Funded 3 years, \$143,366.
- Alagic, M., Krehbiel, M., & Palenz, D. (2003). **BRIDGES: Connecting mathematics teaching, learning and applications.** No Child Left Behind Improving Teacher Quality Grant. Kansas Board of Regents Grant. 3 years, \$143,366; second year awarded
- Alagic, M., Whitman, L., Koert, D., Yeotis, C. & Rillema, P. (2003). Infusing Inquiry and IT into

- Haack, C., Alagic, M., & Gibson, K. (March 2002). Global learning: Instructional strategies in mathematics/ science for elementary teachers. Global Learning Development Grant for 2002: Curriculum and Instruction. Funded \$15, 000.00.
- Siginer, D., (PI), Alagic, M., Chaudhuri, J., Krishnan, K., & Rimmington, G. (2002). I-SEE Paradigm for multi-disciplinary learning and collaboration. NSF Division of engineering education and centers. Funded 1 year, \$99,998.00.
- Gibson, K., Gladhart, M., Mitchell, L., Langrall, R., Alagic, M., & Haack, C. (2002). Internet2 Window to the classroom. Wichita State University, Internet2. Funded \$4,217.00.
- Witherspoon, T., Reynolds, K., Rimmington, G., Klopfer, E., Tempel, M., Koert, D., Alagic, M., & Yeotis, C. (2002). **WSU Internet 2 Mini grant.** Wichita State University, Internet 2. Funded \$4,939.00.
- Koert, D. N., Rimmington, G., Alagic, M., Klopfer, E., Reynolds, K., Tempel, M., Witherspoon, T., & Yeotis, C. (2002). **Internet 2 Instructional development equipment.** Wichita State University, Internet2. Funded \$5,200.00.

- Alagic, M. & Rimmington, G.M. (2013). Google Earth: Mathematical art forms. Proc. 16th Annual Bridges Conference. Bridges Enschede. Mathematics, Music, Art, Architecture, Culture. Enschede, The Netherlands. July 27-31, Hertfordshire, UK, Tarquin Publications.
- Rimmington, G. M., & Alagic, M. (October 26-28, 2010). Creating a Third Place Learning Criteria for the 21st Century Globalizing Economy (invited keynote). Innovational Teacher- Innovational Economy International Conference. Khabarovsk, Russia. http://tinyurl.com/8uqhdat
- Alagic, M., Gibson, K., & Rimmington, G. (2006). Co-constructing intercultural communication competence through an online cage painting simulation and scenario repository: A theoretical perspective. Paper presented at the 3rd International Conference on Intercultural Communication Competence: Learning, Teaching and Research in a Borderless World, Ahmedabad, India.
- Alagic, M. (2006, 16-21 July.). How to Put it all Together? Redesigning Learning Activities to Meet the Needs of Elementary Teacher Candidates. Paper presented at the 30th Annual Meeting of the International Group for the Psychology of Mathematics Education (PME30): Mathematics in the centre, Prague, Czech Republic.
- Alagic, M. (2006). Mathematics Investigations: Towards Curriculum design and implementation. Paper presented at the 17th ICMI (The International Commission on Mathematical Instruction) Study 'Digital technologies and mathematics teaching and learning: Rethinking the terrain'. Hanoi, Viet Nam.
- Radebaugh, D., Soschinske, K., Rimmington, G., & Alagic, M. (2006). A Web-based Interactive Approach for Engineering Ethics Training in a Global Learning Environment. Paper presented at the Midwest Section Conference of the American Society for Engineering Education, Kansas City, MO.
- Soschinske, K., Rimmington, G., & Alagic, M. (2006). Preparation of Engineering senior design course: Global learning integration. Paper presented at the 9th International Conference on Engineering Education. San Juan, PR.
- Rimmington, G., Gibson, K. L., & Alagic, M. (2006, April 6-7). Improving strategies for intercultural communication through simulated experiences. Paper presented at the 2nd International Conference on Intercultural Communication Competence: Implications for Learning and Teaching in a Globalized World, Graz, Austria.
- Alagic, M., Gibson, K. L., & Rimmington, G. M. (2005). Developing intercultural communication skills with the cage painting simulator. Paper presented at the op opat bh i pa (Proceedings of the

- Information Technology & Teacher Education International Conference (SITE 2003), Albuquerque, New Mexico.
- Gibson, K., Alagic, M., Haack, C., Watters, J., & Rogers, A. G. (2003, March). Using global learning to enhance the preparation of elementary teachers in the teaching of mathematics and science: What we learned. Paper presented at the International Society for Information Technology & Teacher Education International Conference (SITE 2003), Albuquerque, New Mexico.
- Haack, C., Alagic, M., Gibson, K., Watters, J., & Rogers, A. G. (2003, March). **Tailoring a website to meet the needs of global learners**. Paper presented at the International Society for
 Information Technology & Teacher Education International Conference (SITE 2003),
 Albuquerque, New Mexico.
- Haack, C., & Alagic, M. (2003, February 1). **Pre-service teacher investigations of learning and teaching**. Paper presented at the AETS Annual Meeting, St. Louis, TX.
- Alagic, M., & Emery, S., (2002, March 9). **Finding algebra in your jewelry box.** Paper presented at the annual meeting of Expanding Your Horizons, Emporia State University, KS.
- Emery, S. & Alagic M., (2002, March 9). **Mathematics: Where will it take you?** Paper presented at the annual meeting of Expanding Your Horizons: Emporia State University, KS.
- Emery, S., & Alagic M., (2002, March 9). **Have fun thinking for a living: Is that what scientists do?**Presented at the annual meeting of Expanding Your Horizons: Emporia State University, KS.
- Alagic, M. (2002, March 18-23). Participatory cognitive apprenticeship: Teachers learning mathematics in the technology-based environment. Paper presented at the International Conference of the Society for Information Technology & Teacher Education 2002. Nashville, Tennessee.
- Alagic, M., Hutchinson, J., & Krehbiel, M. (2002, April). **Teacher made mathematics: Patterns and growth**. Paper presented at The National Institute for Aviation Research (NIAR), Wichita State University, KS.
- Yeotis, C., Haack, C., & Alagic, M. (2002, April 26-28). **Building curves into inquiry.** Paper presented at the Kansas Association of Teachers of Science Conference, Junction City, KS.
- Alagic, M., Krehbiel, M., & Hutchinson, J. (2002, May). **TM MATH: Designing modules.** Paper presented at The National Institute for Aviation Research (NIAR), Wichita State University, KS.

- Gibson, K., Alagic, M., & Haack, C. (2002, June 24-29). **Teaching mathematics and science: Using global learning for the effective preparation of prospective elementary teachers.** Paper presented at the ED-MEDIA 2002 Conference, Denver, CO. (International)
- Alagic, M. (2002, July 11-13). **Technology-based representations of some mathematical ideas**. Paper presented at the IMECT3 Third International Conference on Mathematics Enrichment with Communication Technology, Robinson College, Cambridge, United Kingdom.
- Alagic, M. (2002, July 11-13). What change is technology bringing to conceptual understandings of mathematical ideas? Paper presented at the IMECT3 Third International Conference on Mathematics Enrichment with Communication Technology, Robinson College, Cambridge, United Kingdom.
- Alagic, M. (2002, August) Integrating technologies into the teaching of mathematics.

 Demonstration/presentation at the COE & Project M3 Street Fair, Corbin Courtyard, Wichita State University, KS.
- Gibson, K., Alagic, M., & Haack, C. (2002, October). Increasing self-efficacy of elementary preservice teachers in the teaching of mathematics and science through global learning. Paper presented at the Phi Delta Kappa International District III Conference, Tulsa, OK.
- Alagic, M., & Emery, S. (2002, October). **Differentiating with marbles: Is this algebra or what?**Paper presented at the Phi Delta Kappa International District III Conference, Tulsa, OK.
- Alagic, M. (2002, October). Developing geometric thinking: The Van Hiele levels

- Bolick, M., & Alagic, M. (2001, January). **Challenging pre-service teachers' beliefs about teaching mathematics and science**. Paper presented at the Meeting of The Association for Science Education, Guildford, England.
- Alagic, M., & Langrall, R. (2001, August). Mapping for learning with technology: Differentiating mathematics instruction for personalized learning. Paper presented at The Fifth International Conference on the Technology in Mathematics Teaching (ICTMT5). Strand 1: Integration of IC Technologies into learning processes, Klagenfurt, Austria. (International)
- Alagic, M. (2001, October). **Kansas mathematics education: The new certification outcomes and other current issues for college educators**. Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Emery, S., & Alagic, M. (2001, October). They are not getting it! What do I do now? Remediate, compensate, or punt? Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Reynolds, K., Alagic, M., & Witherspoon, T. (2001, October). **Standards-based teaching using Kidspiration.** Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Witherspoon, T., Reynolds, K., & Alagic, M. (2001, October). **Mathematical eyes on robotics**.

 Presentation at the Kansas Association of Teachers of Mathematics Annual Conference: A Math Odyssey, Wichita, KS. (State)
- Alagic, M. (2000, July). **Geometric thought and spatial reasoning: Implications for classroom teaching.** Paper presented at the IMECT 2 International Mathematics Enrichment and Communication Technologies Conference, University of Cambridge, Cambridge, England.

- The University of Leeds, England. (International)
- Bolick, M. & Alagic, M. (2000, January). Pre-service teac mathematics and science: Mirrors into our practice as teacher educators. Paper presented at the Association for Science Education Annual Meeting (international session), The University of Leeds, England. (International)
- Yeotis, G. C., Bolick, M., & Alagic, M. (2000, April). **STAMPEDE: Science, technology and mathematics propelling education directives toward excellence.** Paper presented at the National Science Teachers Association Conference, Orlando, Florida. (National)
- Alagic, M. (2000, March). . . Workshop conducted for Title I teachers, Wichita State University, KS. (State; invited)
- Alagic, M., & Bolick, M. (2000, March). **Mission mathematics/ science: A conceptual change model for teaching mathematics**. Paper presented at Expanding Your Horizons EYH 2000, Emporia State University, KS. (State; invited)
- Neal, S., & Alagic, M. (2000, October). **Opening your geometric eyes**. Presentation at the Kansas Association of Teachers of Mathematics Conference: Making Mathematics Meaningful in the New Millennium, Olathe, Kansas. (State)
- Alagic, M., & Bolick, M. (2000, October). **Mission mathematics/ science: Covering airplanes**.

 Presentation at the Kansas Association of Teachers of Mathematics Conference: Making Mathematics Meaningful in the New Millennium, Olathe, Kansas. (State)
- Alagic, M., & Bolick, M. (2000, October).

 Presentation at the Kansas Association of Teachers of Mathematics Conference: Making Mathematics Meaningful in the New Millennium, Olathe, Kansas. (State)
- Yeotis, G. C., Bolick, M., & Alagic, M. (2000, April). **Coasting along with science and mathematics.**Presentation at the Kansas Association of Teachers of Science Camp, Rocksprings, KS. (State)
- Bolick, M. & Alagic, M. (December 1999) Preservice teacher's beliefs about teaching and learning mathematics and science: A mirror into our practice as teacher educators. AARE Annual Conference, Melbourne, Australia. Abstract: http://www.aare.edu.au/99pap/abs99.htm

Editorial Review Boards/ Program Committees

Member of the Editorial Board

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