

AGIDA MANIZADE

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Radford, VA 24141
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EDUCATION

University of Virginia Graduate School of Education, Charlottesville, VA Ph.D. 2006
The College of William and Mary Graduate School of Education, Williamsburg, VA MA 2000
Baku State University Department of Mathematics, Baku, AZ Master of Science 1997
Baku State University Department of Mathematics, Baku, AZ Bachelor of Science 1997

Leadership Institute:

Higher Education Resources Services (HERS), 50th Cohort, Boston, MA, 2021-2022

ACADEMIC, ADMINISTRATIVE & LEADERSHIP POSITIONS

President, Virginia Council of Teachers of Mathematics, Richmond, VA 2022-present
Founding Director, International Center for Mathematics Excellence, Radford, VA 2019-present
Professor (tenured), Artis College of Science and Technology, Department of Mathematics and Statistics, Radford University, Radford, VA 2018-present
Program Associate, HERS Leadership Institute Philadelphia, Pennsylvania, July 10-22, 2022
Program Associate, HERS Leadership Institute Denver, Colorado, June 4-16, 2022
Director, Diagnostics & Assessment for Mathematic Excellence, Radford, VA 2017-present
President-Elect, Virginia Council of Teachers of Mathematics, Richmond, VA 2021-2022
Faculty Research and Grants Advisor, Radford University, Radford, VA 2017-2018
Associate Professor (tenured), Artis College of Science and Technology, Department of Mathematics and Statistics, Radford University, Radford, VA 2013-2018
Founding Director, Secondary Mathematics Professional Development Center, Radford University, Radford, VA 2010-2013, Co-Director 2013-2018
President, Radford Child Development, Radford, VA 2012-present
Assistant Professor, Artis College of Science and Technology, Department of Mathematics and Statistics, Radford University, Radford, VA 2009-2013
Assistant Professor, School of Education, Clemson University, Clemson, SC 2006-2009

HONORS AND AWARDS

International GeoGebra Congress, Spain, **Invited International Scientific Committee Member** 2021
Radford University Foundation, **Dalton Eminent Scholar Award** 2019
State Council of Higher Education for Virginia (SCHEV), **Outstanding Faculty Award** 2019
National Council of Teachers of Mathematics, **Award for Outstanding Journal** for the Virginia Mathematics Teacher (VMT) Journal 2018
State Council of Higher Education for Virginia (SCHEV), **Finalist, Outstanding Faculty Award** 2018
Radford University Foundation, **The Distinguished Creative Scholar Award** 2017
State Council of Higher Education for Virginia (SCHEV), **Finalist, Outstanding Faculty Award** 2017
Radford University Foundation, **Million Dollar Circle Award** 2014
Radford University, **The Artis Outstanding Faculty Award** 2013

Radford University, Radford University's Distinguished Woman 2013

ADMINISTRATIVE & LEADERSHIP EXPERIENCES

VIRGINIA COUNCIL OF TEACHERS OF MATHEMATICS (VCTM)	PRESIDENT 2022-present
	PRESIDENT-ELECT 2021-2022

Brief position description

Chief Administrative Officer of the state-level professional organization, VCTM, which was established 48 years ago.

Responsible for:

- Developing and implementing the *Strategic Plan* for VCTM
- Collaborating with VCTM affiliates to address their needs
- Developing and implementing *diversity, equity and inclusion initiatives*
- Creating *professional development* opportunities for mathematics teachers in VA
- Coordinating the activities of VCTM including but not limited to the organization of the conference, production of the journal, communication with stakeholders, NCTM, VDOE, VCMS, and other state-level organizations
- Leading the board and setting the agenda
- Managing the *budget and the investment* funds
- Coordinating financial activities including registration, taxes, recruitment and enrolment, annual conferences, professional development institutes, etc.
- Representing the Virginia Council of Teachers of Mathematics to national organizations

Major Accomplishments to Date

- Led a **successful strategic planning process** with major outcome focused on racial justice and strengthening a justice-informed mathematics classroom
- Led a **successful investment planning process** with major outcome focused on robust financial future of the organization

RADFORD CHILD DEVELOPMENT INC.	PRESIDENT 2012-present
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Brief position description

Chief Administrative Officer of the Radford Child Development Inc (RCD, non-profit educational corporation).

Responsible for:

- Providing creative leadership and expertise for the enhancement and development of the financial infrastructure of the corporation
- Advancement of the Radford Child Development missions by manifesting leadership required to achieve standards of excellence in instruction at the Radford Early Learning Center (RELC) with measurable outcomes for provider, staff, and students
- Building collaborative relationships and working with Radford University departments, external constituencies, and corporate partners
- Leading RCD's team of directors to work collaboratively with Chairs, program coordinators and Directors of RU programs that require internship placements

- Planning at the strategic and operational levels to improve the overall effectiveness of the Radford Early Learning Center

Major accomplishments

- Developed a sustainable and robust *financial model* for the RELC
- Drafted the *strategic plan and secured consensus* for the plan
- *Raised funds* for pre-open capital, \$300,000.00
- Built a center, \$1,500,000.00
- Hired the operating provider, teachers, administration, and recruited 140 students
- Established corporate partnerships
- *Managed the budget*
- Ensured *grants* as well as private funds in the amount of \$325,000.00 for low-income families
- Created a *scholarship fund* of \$192,000 (in addition to the money given to families).

SECONDARY MATHEMATICS PROFESSIONAL DEVELOPMENT CENTER

DIRECTOR

2010-2018

Brief position description

Chief Administrative Officer of the Secondary Mathematics Professional Development Center reporting to the Dean of Artis College of Science and Technology and to the Dean of College of Education and Human Development, and the Mathematics Supervisor at the Virginia Department of Education.

Responsible for:

- Providing creative leadership and expertise for the enhancement and development of academic programming for in-service mathematics teachers, RU graduate students in mathematics education
- Working collaboratively with deans, chairs, site directors, VDOE, NASA scientists, faculty, and graduate students to provide graduate-level courses in Mathematics and Mathematics education at RU
- Coordinating work at the partnering IHEs: Longwood, VCU, W&M
- Conducting annual *program evaluation* for the first 3 years
- *Managing budgets* and developing annual reports, including budget reports for the VDOE and RU
- *Hiring program staff* as well as graduate student workers
- Completing IRBs annually
- Developing training *workshops for program faculty*
- Presenting results at the conferences

Major accomplishments:

- Obtained *grants* in the total amount of **\$2,260,900.00** and *managed budgets*
- Lead the team of faculty members to *design curriculum for the graduate courses* for the Radford University MS in Math Education and for the Graduate Certificate in Mathematics programs
- *Recruited graduate students* from the 37 partnering school divisions, for nine years
- Enrolled and trained more than 1,000 students in individual graduate-level courses

RADFORD UNIVERSITY GRADUATE COLLEGE

**RESEARCH &
GRANTS ADVISOR**
2017-2018

Brief position description

Faculty Advisor for Research and Grants, who helped novice faculty aspired to enhance their research programs and assisted them with external grant proposal applications

Major accomplishments

- Based on the 2018 annual report of the university's Office of Sponsored Programs and Grants Management, the **proposal submissions** by first-time grant writers **increased by 117 percent**.

INTERNATIONAL CENTER FOR MATHEMATICS EXCELLENCE**DIRECTOR**

2019-present

Brief position description

Chief Administrative Officer of the International Center for Mathematics Excellence.

Responsible for:

- Developing and conducting needs assessment
- Developing courses for the programs, based on the results of the assessment
- Hiring and training staff*, and managing the *budget*

Major accomplishments

- Initiated summer professional development programs designed to meet the individual needs of the clients

HERS INSTITUTE**PROGRAM****ASSOCIATE**

2022

Brief position description

Co-leader of a two-week residential HERS Leadership Institute -- transformational, leadership development program for women in higher education, founded to fill leadership pipelines across the United States with dynamic women, each capable of ushering their respective institutions into a more inclusive and equitable future as they move toward roles in senior leadership.

Major accomplishments

- Co-developed and co-facilitated summer professional development programs designed for women in higher education during HERS LI in Denver, Colorado (June 5-16, 2022), and in Philadelphia, Pennsylvania (July 10-21, 2022)
- Co-designed and co-lead program activities needed to develop the skills to actualize participants' professional visions as transformational, inclusive leaders in higher education.

DIAGNOSTICS AND ASSESSMENT FOR MATHEMATICS EXCELLENCE**DIRECTOR**

2017- 2022

Brief position description

Chief Administrative Officer of the Diagnostics and Assessments for Mathematics Excellence (DAME), an international organization created to design AI for teaching and learning mathematics

Major accomplishments

- Led development team of experts
- Supported the AI development process, secured funding, and managed the budget

ACADEMIC EXPERIENCE

RADFORD UNIVERSITY**PROFESSOR**
2018-present (tenured)*Brief position description*

Responsible for:

- Teaching
- Advising
- Research

Courses Taught:

Artis College of Science and Technology: Graduate Euclidian and Non-Euclidian Geometry, Graduate Algebra & Functions, Undergraduate Fundamentals of Geometry

College of Education and Human Development: Graduate Educational Technology Applications

Publications:

Manizade, A.G., Buchholtz, N. F., & Beswick, K. (2022; In Press). *The Evolution of Research on Teaching Mathematics: International Perspectives in the Digital Era*. New-York: Springer.

Manizade, A.G., *Moore, A., Beswick, K. (2022; In Press). The research in mathematics teaching, planning, and assessment: Theoretical perspectives and classroom implications. In A. Manizade, N. Buchholtz, & K. Beswick (Eds.), *The Evolution of Research on Teaching Mathematics: International Perspectives in the Digital Era* (pp.45-94). New-York: Springer.

Manizade, A.G., Buchholtz, N. F., Beswick, K. (2022; In Press). Introduction: Current issues in mathematics teaching. In A. Manizade, N. Buchholtz, & K. Beswick (Eds.), *The Evolution of Research on Teaching Mathematics: International Perspectives in the Digital Era* (pp.1-15). New-York: Springer.

Manizade, A.G., Mistele, J. (2022). Mathematics in Nature. *Virginia Mathematics Teacher*, 47(2), 5-6. ISSN 2474-8749

Choate, E. P., Manizade, A. G. (2021). Mathematics of COVID-19. In Bourama Toni (Ed.), *The Mathematics of Patterns, Symmetries and Beauties in Nature* (pp.15-30). Switzerland: Springer. <https://www.springer.com/us/book/9783030845957>

Manizade, A.G., Martinovic, D. (2021) Connecting knowledge for teaching geometry at the secondary level with instructional quality in mathematics teaching. In N. Buchholtz, M. Ribeiro (Eds.) *Proceedings of the 14th International Congress on Mathematical Education*. Shanghai, China: ICME

Manizade, A.G., Mistele, J. (2021). Teaching mathematics during the COVID-19 pandemic. *Virginia Mathematics Teacher*, 47(1), 5-6. ISSN 2474-8749

Manizade A.G., Orrill, C., H. (2020). International perspectives on frameworks for mathematics teachers' knowing and quality of mathematics instruction. *Research in Mathematics Education*. 22(2),93-97, DOI: [10.1080/14794802.2020.1798809](https://doi.org/10.1080/14794802.2020.1798809)

Martinovic, D., Manizade, A. G. (2020). Teachers Using GeoGebra to Visualize and Verify Conjectures about Trapezoids. *Canadian Journal of Science, Mathematics, and Technology Education*, 20, 485-503, DOI: [10.1007/s42330-020-00103-9](https://doi.org/10.1007/s42330-020-00103-9)

Manizade, A.G., Mistele, J. (2020). Teaching mathematics relevant to our students. *Virginia Mathematics Teacher*, 46(2), 5-6. ISSN 2474-8749

Manizade, A.G., Mellone, M., Makonye, J., Riveiro, M., Jakobsen, A. (2019, December) Working group 7 report: International perspectives on evolution of research on teaching mathematics. *Psychology of Mathematics Education Newsletter*, 2, 10-11. Retrieved from https://issuu.com/pmeadministrativemanager/docs/191216_pme_newsletter_template_web_v2

Manizade, A. G., Mistele, J. (2019). Embracing changes in mathematics teaching and learning. *Virginia Mathematics Teacher Journal*, 46(1), 9-10. ISSN 2474-8749

Manizade, A.G., Ribeiro, M., Makonye, J., Mellone, M., Jakobsen, A. (2019). International perspectives on evolution of research on teaching mathematics. In M. Graven, H. Venkat, A. Essien & P. Vale (Eds.).

Proceedings of the 43rd Conference of the International Group for the Psychology of Mathematics Education (Vol. 1, pp. 179-180). Pretoria, South Africa: PME.

Manizade, A.G. (2019). Changes to the Virginia mathematics teacher journal. *Virginia Mathematics Teacher*, 45(2), 6. ISSN 2474-8749

Manizade, A.G., Orrill, C., Kaarstein, H. (2018, December). Working Group Report on International Perspective: Measuring Mathematics Teachers' Knowledge in the Digital Era. *Psychology of Mathematics Education Newsletter*, 2, 9-10. <http://www.igpme.net/wp-content/uploads/2019/05/PME-Newsletter-2018-Issue-2.pdf>

Martinovic, D., Manizade, A. G. (2018). The challenges in the assessment of knowledge for teaching geometry. *ZDM*, 50(4), 613-629. DOI: <https://doi.org/10.1007/s11858-018-0934-4>

Manizade, A.G. (2018). Contributors to our success story. *Virginia Mathematics Teacher*, 44(2), 6. ISSN 2474-8749

Grants:

Total Funded Projects \$ 2,910,642.00. Details provided below

RADFORD UNIVERSITY

ASSOCIATE PROFESSOR

2013-2018 (tenured and promoted in 2013)

Brief position description

Responsible for:

- Teaching
- Advising
- Research

Courses Taught:

Artis College of Science and Technology: Graduate Euclidian and Non-Euclidian Geometry, Graduate Algebra & Functions, Graduate Topics in Mathematics Education, Undergraduate Fundamentals of Geometry, Undergraduate Mathematics Content for Teachers II, Undergraduate Mathematics Content for Teachers I, Special Methods Secondary Mathematics Education

College of Education and Human Development: Graduate Educational Technology Applications

Courses Initiated: Undergraduate Fundamentals of Geometry, Graduate Educational Technology Applications

Publications:

Manizade, A. G., & Martinovic, D. (2018). Creating profiles of geometry teachers' PCK. In Patricio Herbst, Ui Hock Cheah, Philippe Richard, and Keith Jones (Eds.). *International Perspectives on the Teaching and Learning of Geometry in Secondary Schools*. Switzerland: Springer Publishers. DOI: 10.1007/978-3-319-77476-3; DOI: 10.1007/978-3-319-77476-3_8

Manizade, A.G. (2017). Universal language of Mathematics. *Virginia Mathematics Teacher*, 43(2), 6. ISSN 2474-8749

Martinovic, D., Manizade, A.G. (2017). Using Grounded Theory to extend PCK framework at the secondary level. *Education Sciences, Special Issue: Critical Issues in Mathematics Education*. 7(60), 1-17. DOI: 10.3390/educsci7020060

Manizade, A.G. (2017). Superheroes at work. *Virginia Mathematics Teacher*, 44(1), 6. ISSN 2474-8749

Manizade, A. G., Jacobsen, L., Belcher, C., Thien, R., Lovin, J., Brady, S., Baker, D. (2016). Secondary Mathematics Professional Development Center. *Virginia Mathematics Teacher*, 43 (1), 20-25.

Manizade, A.G. (2016). Sharing the knowledge: Message from the editor. *Virginia Mathematics Teacher*, 43(1), 6. ISSN 2474-8749

Manizade, A.G., Martinovic, D. (2016). Developing an interactive instrument for measuring teachers' professionally situated knowledge in geometry and measurement. In P. Moyer-Packenham (Eds.),

International Perspectives on Teaching and Learning Mathematics with Virtual Manipulatives (pp.323-342). Switzerland: Springer Publishers. DOI: 10.1007/978-3-319-32718-1_14

Manizade, A.G. (2016). If you can do math, you can do anything: Note from the editor. *Virginia Mathematics Teacher*, 42(2), 6.

Manizade, A. G., Mason, M. (2015) Teaching dilemmas: getting it right with trapezoids, *Virginia Mathematics Teacher*, 42(1), 29-32.

Manizade, A.G. (2015) Note from the editor. *Virginia Mathematics Teacher*, 42(1), 6.

Manizade, A.G., & Martinovic, D. (2014). Developing a Dynamic Instrument for Assessing Teachers' Professionally Situated Knowledge of Geometry. GeoGebra-NA 2014. November 21-22, 2014, Toronto, ON, 23-29.

Martinovic, D., & Manizade, A. G. (2014). Technology as a partner in the geometry classrooms. *The Electronic Journal of Mathematics and Technology*, 8(2), 69-87. Retrieved from https://php.radford.edu/~ejmt/deliverAbstract.php?paperID=eJMT_v8n2a1. Reprinted in *The Research Journal of Mathematics and Technology*, 3 (1), ISSN 2163-0380.

Manizade, A. G., Mason, M. (2014). Developing the area of a trapezoid. *Mathematics Teacher*, 107(7), 509-514.

Martinovic, D., Manizade, A. G. (2014). Technology as a partner in the geometry classroom. *The Electronic Journal of Mathematics and Technology*, 8(2), 69-87.

Martinovic, D., Manizade, A.G. Teachers Evaluating Dissections as an Approach to Calculating Area of Trapezoid: Exploring the Role of Technology. In *Proceedings of the 5th North American GeoGebra Conference: Explorative Learning with Technology*; Toronto, ON, Canada, 21–22 November 2014; Martinovic, D., Karadag, K., McDougall, D., Eds.; University of Toronto: ON, Toronto, 2014; pp. 44–50.

Manizade, A. G., Jacobsen, L. (2013). Providing high-quality professional development for all. In Martinez, M. V. & Castro Superfine, A. C. (Eds.). *Proceedings of the 35th Conference of the International Group for the Psychology of Mathematics Education of the North American Chapter*. 825-828. Chicago, IL: PMENA.

Manizade, A. G., Jacobsen, L. (2013). Access to professional development opportunities for mathematics teachers in rural USA. In Lindmeier, A.M. & Heinze, A. (Eds.) *Proceedings of the 37th Conference of the International Group for the Psychology of Mathematics Education*, 5, 243. Keil, Germany: PME.

Manizade, A. G., Martinovic, D. (2013). PCK and TPACK: The case of the area of a trapezoid. In Lindmeier, A.M. & Heinze, A. (Eds.) *Proceedings of the 37th Conference of the International Group for the Psychology of Mathematics Education*, 5, 118. Keil, Germany: PME.

Grants:

Co-Principal Investigator (2015-2018): *Mathematics & Science Partnership Grant: Virginia Secondary Mathematics Professional Development Center*. **\$914,000.00**. Funded through Virginia Department of Education. (March 2015-September 2019). Project PI: Darryl Corey; Co-PIs: Dr. Roofia Galeshi, Dr. Laura Jacobsen, Dr. Rayya Younes, Dr. Aimee Ellington (VCU), Dr. Emerson- Stonnell (LU).

Co-Principal Investigator (2014-2015): *Mathematics & Science Partnership Grant: Virginia Secondary Mathematics Professional Development Center*. **\$230,000.00**. Funded through Virginia Department of Education. (March 2014-September 2015). Project PI: Dr. Laura Jacobsen; Co-PIs: Dr. Aimee Ellington; Dr. Kristan Morrison.

Site-Principal Investigator (2013-2014): *Mathematics & Science Partnership Grant*. **\$225,000.00**. Funded through Virginia Department of Education, Subcontract of the Tidewater Team Improving Middle School Mathematics Instruction grant project. (March 2013 -September 2014). Project PI: Dr. Margie Mason, The College of William and Mary.

Co-Principal Investigator (2013-2014): *Mathematics & Science Partnership Grant: Virginia Secondary Mathematics Professional Development Center*. **\$250,000.00**. Funded through Virginia Department of Education. (March 2013-September 2014). Project PI: Dr. Laura Jacobsen; Co-PIs: Dr. Margie Mason, Dr. Aimee Ellington.

RADFORD UNIVERSITY**ASSISTANT PROFESSOR**

2009-2013

Brief position description

Responsible for:

- Teaching
- Advising
- Research

Courses Taught:

Artis College of Science and Technology: Graduate Euclidian and Non-Euclidian Geometry, Graduate Theory and Practice in Mathematics Education, Graduate Research in Mathematics Education, Graduate Topics in Mathematics Education, Undergraduate Fundamentals of Geometry, Undergraduate Mathematics Content for Teachers II, Undergraduate Mathematics Content for Teachers I, Special Methods Secondary Mathematics Education

College of Education and Human Development: Graduate Educational Technology Applications

Courses Initiated: Graduate Master's Thesis Course, Graduate Euclidian and Non-Euclidian Geometry, Graduate Algebra & Functions, Graduate Educational Technology Applications

Publications:

Manizade, A.G., Mason, M. (2011). Using Delphi methodology to design assessments of teachers' pedagogical content knowledge. *Educational Studies in Mathematics*, 76(2), DOI: 10.1007/s10649-010-9276-z; <https://link.springer.com/article/10.1007/s10649-010-9276-z>

Yang, W., Manizade, A. G. (2010). Use of dynamic course core to develop teachers' subject matter knowledge of mathematics. *The Electronic Journal of Mathematics and Technology*, 4(2) ISSN 1933-2823

Manizade, A. G. (2009). Proceedings of the 31st Annual Meeting of the North American Chapter for the International Group for the Psychology of Mathematics Education: *Learning about Proof by Building Conjectures. (PME-NA)*, Atlanta, GA.

Manizade, A. G. (2009). Proceedings of the 31st Annual Meeting of the North American Chapter for the International Group for the Psychology of Mathematics Education: *Developing as Middle Grades Mathematics Teachers: Career Changes. (PME-NA)*, Atlanta, GA

Manizade, A. G. (2009). Proceedings of the 31st Annual Meeting of the North American Chapter for the International Group for the Psychology of Mathematics Education: *Delphi Method: A Different Approach of Creating Measures of Professional Knowledge for Teaching. (PME-NA)*, Atlanta, GA.

Grants:

Principal Investigator (2012-2013): *Mathematics & Science Partnership Grant: Virginia Secondary Mathematics Professional Development Center. \$221,953.00*. Funded through Virginia Department of Education. (March 2012-September 2013). Project Co-PIs: Dr. Laura Jacobsen, Dr. Aimee Ellington.

Principal Investigator (2011-2012): *Summer Faculty Research Grant \$5,566.89*. Funded through the College of Science and Technology at Radford University, Radford, VA. (May 2011-June 2012).

Principal Investigator (2011-2012): *Mathematics & Science Partnership Grant: Southwest and Southside Virginia Secondary Mathematics Professional Development Center. \$200,000.00*. Funded through Virginia Department of Education. (March 2011-September 2012) Project Co-PI: Dr. Laura Jacobsen.

Principal Investigator (2010-2011) *Mathematics & Science Partnership Grant: Southwest and Southside Virginia Secondary Mathematics Professional Development Center. \$207,242.00*. Funded through Virginia Department of Education. (March 2010-September 2011) Project Co-PI: Dr. Laura Jacobsen.

Principal Investigator (2010): *Summer Faculty Research Grant \$7,139.00*. Funded through the Radford University, Radford, VA. (May 2010-August 2010).

CLEMSON UNIVERSITY**ASSISTANT PROFESSOR**

2006-2009

Brief position description

Responsible for:

- Teaching
- Advising
- Research

Courses Taught:

Clemson University: Research Methods, Doctoral Dissertation, Mathematics Methods

Publications:

Che, S.M., Spearman, M., & Manizade, A. (2009). Constructive disequilibrium: cognitive and emotional development through dissonant experiences in less-familiar destinations. In R. Lewin (Ed.), *Handbook of Practice and Research in Study Abroad: Higher Education and the Quest for Global Citizenship*. New York, NY: Routledge.

Manizade, A.G. (2009). New mathematical dimensions: Adam's story. *Understanding Our Gifted*, 21(2) Boulder, CO.

Grants:

Co-Principal Investigator (2008-2012): *Meeting the Need for Highly Qualified Mathematics Teachers* (April, 2008-2012). **\$339,266.00**. Funded through the SC Commission on Higher Education. In 2008-2009 (\$84, 094.00) PI: Dr. Wiegert, Co-PI: Dr. Che; In 2010-2012, PI: Dr. Che, Co-PI: Dr. Williams, Dr. Bannister.

Principal Investigator (2007-2009): *Mathematics Specialists Project* **\$10,176.00**. Sub-award funded by University of Virginia, Charlottesville, VA. (May, 2007-2009)

Principal Investigator (2007-2009): *Summer Study Abroad to Non-Traditional Destinations: Azerbaijan* **\$5,000.00** Funded by Clemson University: Office of International Affairs, Clemson SC. (May, 2007-2009) Project Co-PIs: Dr. Mindy Spearman; Dr. Megan Che

Principal Investigator (2008- 2009): *Improving Mathematical Content Knowledge and Understanding of G.E.D Students through Inquiry Grant* **\$10,000.00** Funded by Clemson University: Creative Inquiry Initiative, Clemson SC. (February, 2008-2009) Project Co-PI: Dr. Megan Che

Co-Principal Investigator: Improving Teacher Quality Higher Education Grant **\$600,000.00**, Recommended for Funding by S.C. Commission on Higher Education, Columbia, SC. Funds were not provided due to the budget cuts. (February 2007)

SELECTED SERVICE**TO PROFESSION, HIGHER EDUCATION, AND NON-PROFITS****RADFORD UNIVERSITY FACULTY SENATE**

**FACULTY
SENATOR,
MEMBER AT
LARGE
2020-present**

Brief position description

Senator elected by faculty members of the Artis College of Science and Technology to represent interests of faculty of the Anthropological Sciences, Biology, Biomedical Science, Chemistry, Geology, Geospatial Science, Information technology, Mathematics and Statistics, Pre-Health, Physics and Forensic Science.

Major accomplishments

- Co-developed RU's Institutional Base Pay Policy, as a member of the Institutional Base Pay Policy working group, under the leadership of CFO, Chad Reed
- Served as a member of the Faculty Senate Resource Allocation Committee

**VIRGINIA MATHEMATICS TEACHER JOURNAL
CHIEF****EDITOR-IN-**

2015-present

Brief position description

Editor-In-Chief of the Virginia Mathematics Teacher, a popular peer-reviewed journal founded in 1974.

Responsible for:

- Coordinating the review and editing process
- Preparing the publication for press
- *Hiring and training* the editorial staff

Major accomplishments

- Doubled the membership & readership from 600 to 1200
- The journal received the national award for Outstanding Publication from the National Council of Teachers of Mathematics in 2018.

SPRINGER – NATURE PUBLISHER**EDITOR**

2020-present

Brief position description

Chief Editor of the Springer-Nature publication, Evolution of Research on Teaching Mathematics: International Perspectives in the Digital Era.

Responsible for:

- Coordinating the review and editing process
- Preparing the book for press

Major accomplishments

- Successfully collaborated with two international editors, and 18 researchers from the United States, Germany, Australia, France, Belgium, Netherlands, Italy, Canada, and Norway

**VIRGINIA MATHEMATICS AND
SCIENCE COALITION (VMSC)****VICE PRESIDENT
OF
RESEARCH AND
BEST PRACTICES
IN STEM
2018-2021***Brief position description*

Chief Administrative Officer of the Coalition that has 30 members representing corporate, educational, governmental, non-profit and scientific institutions.

Responsible for:

- Collaborating with organizations, providing research-based expertise and strong links for addressing ongoing mathematics and science educational concerns
- Providing additional support in implementing diversity, equity, and inclusion initiatives

Major accomplishments

- Supported efforts by school systems, teachers, parents, students, the Commonwealth of Virginia to achieve and sustain excellence in mathematics, science, engineering, and technology (STEM) education for Virginia's K-12 and higher education students

RESEARCH IN MATHEMATICS EDUCATION, LONDON, UK

EDITOR SI
2018-2020

Brief position description

Editor of the Special Issue of the Research in Mathematics Education, a top research publication in this field.

Responsible for:

- Coordinating the review and editing process of research articles
- Preparing the journal for press

Major accomplishments

- Successfully collaborated with researchers from United States, South Africa, Brazil, Iceland, Austria, Germany, Italy, Switzerland and Norway
(<https://www.radford.edu/content/radfordcore/home/news/releases/2020/september/manizade-mathematics-publication.html>)

BOARD MEMBERSHIP

Vice President of Research and Best Practices in STEM (2018-2021), Virginia Mathematics and Science Coalition

Board Member (2015-2021) and President-Elect (2021-present), Virginia Council of Teachers of Mathematics

President and Founder (2012-present), Radford Child Development

SERVICE TO RADFORD UNIVERSITY

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|---|--------------|
| • Served on the Provost Search Committees at Radford University | 2019 |
| • Served on Faculty Senate | 2019-2022 |
| • Served on the SCHEV Outstanding Faculty Awards Committee | 2019-2022 |
| • Chaired Faculty Awards Committee | 2019-2020 |
| • Served on the OER Committee | 2018-2019 |
| • Chaired Departmental Graduate Program Curriculum | 2016-present |
| • Chaired, Personnel Committee | 2016-2017 |
| • Chaired, Promotion Committee | 2016-2017 |
| • Served on the Presidential Search Committee at Radford University | 2015-2016 |
| • Coordinator of the Certificate Program in Math Ed, Department of Mathematics and Statistics | 2015-present |
| • Course Coordinator 121, 135 | 2014-2015 |
| • Served on the Retention Committee | 2014-2015 |
| • Served on the Grade Appeal committee | 2014-2015 |
| • Served on the Travel Committee | 2014-2015 |
| • Chaired several departmental search committees | 2011-2020 |

SELECTED PRESENTATIONS**Refereed International & National**

Manizade, A.G., Martinovic, D. (2021, July). *Connecting knowledge for teaching geometry at the secondary level with instructional quality in mathematics teaching* [Conference session]. The 14th International Congress on Mathematical Education. Shanghai, China.

Manizade, A.G., Ribeiro, M., Makonye, J., Mellone, M., Jakobsen, A. (2019, July) *International perspectives on evolution of research on teaching mathematics* [Conference session]. The 42nd International Group of the Psychology of Mathematics Education (PME). Pretoria, South Africa.

Manizade, A. G., Kaarstein, H., Orrill, C., & Kan, G. (2018, July). *International perspectives: Measuring mathematics teachers' knowledge in the digital era* [Conference session]. The 42nd International Group of the Psychology of Mathematics Education (PME). Umea, Sweden.

Manizade A. G., Corey D. (2017, July) *GeoGebra as a Partner and Extension of the Instructor: Graduate-level Coursework for Mathematics Teachers* [Conference session]. The GeoGebra Global Gathering 2017. Linz, Austria.

Manizade A.G., Martinovic, D. (2017, July) *Incorporating On-line Dynamic Assessments for Measuring Teachers' Knowledge into Math Teachers' Learning Process* [Conference session]. Session Presented at the GeoGebra Global Gathering 2017. Linz, Austria.

Martinovic, D., Manizade, A.G. (2016, July) *Conceptualizing knowledge for teaching geometry at the secondary level* [Conference session]. The 13th International Congress on Mathematical Education. Hamburg, Germany. (Session canceled)

Manizade, A.G., Martinovic, D. (2016, July) *Geometry teachers' knowledge: Insights from the trapezoid study* [Conference session]. The 13th International Congress on Mathematical Education. Hamburg, Germany.

Jacobsen, L., Manizade A. G. (2016, March). *NASA and Radford University's Simulation-Based Mathematics Teacher Professional Development* [Conference session]. The United States Department of Education, Math and Science Partnership Annual Conference, Baltimore, Maryland.

Corey, D. L., Jacobsen, L., Manizade, A., Dove, A., Galeshi, R., Younes, R. (March 2016). *Best Practices: Lessons Learned from an Online Statewide Collaborative Master's in Mathematics Education Program*. Proceedings of the Society for Information Technology and Teacher Education Annual International Conference, Savannah, Georgia.

Manizade A. G., Martinovic D. (November 2014). *Developing a Dynamic Instrument for Assessing Teachers' Professionally Situated Knowledge of Geometry*. Session presented at the Annual North American GeoGebra Conference, Toronto, Canada.

Martinovic D., Manizade A. G., (November 2014). *Teachers Evaluating Dissections as an Approach to Calculating Area of Trapezoid: Exploring the Role of Technology*. Session presented at the Annual North American GeoGebra Conference, Toronto, Canada.

Manizade A. G., Martinovic, D., Jacobsen, L. (November 2014). *Impacting High School Mathematics Teachers' Knowledge and Practice*. Session presented at the meeting of the National Council of Teachers of Mathematics, Richmond, VA.

Jacobsen, L., Manizade A. G., (September 2014). *Secondary Mathematics Professional Development Center*. Session presented at the United States Department of Education, Math and Science Partnership Annual Conference, Washington, DC.

Manizade, A. G., Martinovic, D., (July 2014). *Profiles of Teachers' Professionally Situated Knowledge in Geometry*. Session presented at the International Group of the Psychology of Mathematics Education (PME), Vancouver, Canada.

Jacobsen, L., Manizade A.G., (September 2013). *Secondary Mathematics Professional Development Center*. Session presented at the United States Department of Education's Math and Science Partnership 2013 Conference, Washington, DC.

Manizade, A.G., Martinovic, D., (July 2012). *Identifying Cognitively Appropriate Technological Tasks Based on Student's Level of Geometric Thinking*. Session presented at the International Congress of Mathematical Education, Seoul, Korea.

Manizade, A.G., Martinovic, D., (July 2012). *Unfolding Pedagogic Strategies in Dynamic Mathematics Software Use*. Session presented at the International Congress of Mathematical Education, Seoul, Korea.

Manizade, A.G., Mason, M., (July 2012). *Challenge for all: Area of a Trapezoid*. Session presented at the International Congress of Mathematical Education, Seoul, Korea.

Manizade, A. G., Jacobsen, L., (January 2012). *Using On-line Reflective Journals as a Way to Observe Changes in Teachers' Professionally Situated Mathematical Knowledge*. Session presented at the United States Department of Education's Math and Science Partnership 2012 Conference, New Orleans, LA.

Manizade, A.G., Mason, M., (paper accepted/unable to attend) *Choosing Technology Applications: Considering Students' Mathematical Developmental Backgrounds*. Session prepared for the 2011 Asian Technology Conference in Mathematics, Bolu, Turkey.

Manizade, A.G., Mason, M., (April 2011). *Designing Assessments of Teachers' Professionally Situated Knowledge*. Session presented at the Annual Meeting of American Educational Research Association (AERA), New Orleans, LA.

Yang, W., Manizade, A. G., (October 2010). *Developing Content Knowledge for Teaching*. Session presented at the 32nd Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Columbus, Ohio.

Manizade, A. G., (July 2010). *Choosing GeoGebra Applications Most Appropriate for Teacher's Current Geometry Classroom: Pedagogical Perspective*. Session presented at the Annual Meeting of North American GeoGebra Conference, Ithaca, NY.

Manizade, A. G., (September 2009). *Interview Session*. Session presented at the 31st Annual Meeting of the Psychology of Mathematics Education, Atlanta, GA.

Manizade, A.G., (July 2008) *Developing Rubrics & Measures for Evaluation of Mathematics Teachers Pedagogical Content Knowledge of Geometry & Measurement at the Lower Secondary Level: Delphi Study*. Session presented at the Annual Meeting of International Congress on Mathematical Education (ICME), Monterrey, Mexico.

Che, S.M., Manizade, A., (October 2007). *What About the Other Half? Mathematical Thinking and the GED*. Paper presented at the 29th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Lake Tahoe, NV.

Manizade, A. G., Che, S. M., (July 2007). *Creating E-portfolio to Collect and Present the Evidence of Preservice Teachers' Content Knowledge and Pedagogical Content Knowledge Growth at the Secondary Level*. Session presented at the 8th International Conference on Technology in Mathematics Teaching (ICTMT), Hradec Králové, Czech Republic.

Manizade, A.G., (March 2007). *Teachers' Pedagogical Content Knowledge of Geometry and Measurement*. Paper presented at the Annual Meeting of the National Council of Teachers of Mathematics (NCTM), Atlanta, GA.

Manizade, A. G., (July 2006). *New Mathematical Dimensions*. Session presented at the Third International Conference on the Teaching of Mathematics (ICTM), Istanbul, Turkey.

Invited Presentations

Manizade, A.G., Staton, T, Keck, T. (May 2022). *Childcare Expansion for the Region's Workforce*, Invited Presentation at the Southwest Virginia Economic Forum, Wise, VA.

Manizade, A.G., Weltens, K. (March 2022). *Financial Model: Radford Child Development Project*, Invited Presentation at the Radford University Foundation Board Meeting, Radford, VA.

Manizade, A. G. (September 2020). *Current methods of teaching on-line and assessing students' progress*. UNEC. Baku, Azerbaijan.

Manizade, A. G. (September 2020). *Methods of increasing motivation of students participating in distance learning*. UNEC. Baku, Azerbaijan.

Manizade, A. G., (September 2019). *Effective Practices for Teaching Mathematics at the High School Level*. Invited Presentation at the Southwest Virginia Council of Teachers of Mathematics, Abingdon, VA.

Manizade, A. G., (September 2019). *Grant and Award Opportunities from the Virginia Council of Teachers of Mathematics*. Invited Presentation at the Southwest Virginia Council of Teachers of Mathematics, Abingdon, VA.

Manizade, A. G., (September 2018). *Grant and Award Opportunities from the Virginia Council of Teachers of Mathematics*. Invited Presentation at the Southwest Virginia Council of Teachers of Mathematics, Abingdon, VA.

Manizade, A. G., Weltens, K., (September 2018). *Radford Child Development Center*. Invited Presentation at the Radford University Foundation, Radford, VA.

Anderson, J. R., Archer, A. M., Cubbison, L. B., DeCarlo, M. P., Farhat, D. F., Lucas, J., Manizade, A. G., Tan, T. K., (August 19, 2019). *Opening up: Perspectives on integrating open educational resources into teaching* Invited Presentation at the Office of Institutional Effectiveness & Quality Improvement, Radford, VA.

Manizade, A. G., (December 2016). *Radford Child Development Center*. Invited Presentation at the Radford University Foundation, Radford, VA.

Manizade, A.G., (September 2015). Fabulous Teaching Practices in 40 sec, min, hours.... Keynote Speaker at the 40th Annual Conference of Southwest Virginia Council of Teachers of Mathematics, Bristol, VA.

Manizade, A.G., (May 2013). *Radford Child Development Center*. Invited Presentation at the Smart Beginnings Annual Meeting, Radford, VA.

Manizade, A. G., Jacobsen, L., (March 2012). *Secondary Mathematics Professional Development Center*. Invited Presentation at the Virginia Council of Mathematics Supervisors, Richmond, VA.

Clay, P., Che, S. M. Manizade, A. G., Mello, N., & Spearman, M., (March 2010). *Constructive Disequilibrium: Do the ends justify the means?* Invited Presentation at the Forum on Education Abroad Standards of Good Practice Institute beyond the Basics of Health, Safety and Security, Charlotte, NC.

Manizade, A.G., (February 2008). *Training Mathematics Specialists & Measuring Teachers' Professional Growth*. Invited Presentation at the Research Consortium at the Illinois State University, Normal, IL.

Manizade, A.G., (August 2007). *Designing Measures for Assessing Teachers' Pedagogical Content Knowledge of Geometry and Measurement at the Middle School Level (Research Report)*. Invited Presentation at the Conference Pre-Sessions, TEAM MATH: East Alabama Partnership for Improving Mathematics Education, Tuskegee, AL.

State and Local Presentations (current & graduated **RU students'** names are marked with ‘*’)

***Downs, S., *Barbour, K., *Bialobreski, M., *Galvez, C., *Green, H.,** Manizade, A., G. (March 2022) Fun with Circles. Session Presented at 2022 Virginia Council of Teachers of Mathematics Annual Conference, Richmond, VA.

Manizade, A. G., ***Leo, C.** (September 2018). *Incorporating Open-Source Technology Tools into Mathematics Classrooms: GeoGebra*. Session Presented at the 2018 Southwest Virginia Council of Teachers of Mathematics Annual Conference, Abingdon, VA.

Manizade, A. G., ***Leo, C.** (March 2018). *How to Get Published in an Award-Winning Journal*. Session Presented at the 2018 Virginia Council of Teachers of Mathematics Annual Conference, Radford, VA.

***Leo, C., *Largen, A.,** Manizade, A. G. (March 2018). *GeoGebra Workshop for Beginners*. Session Presented at the 2018 Virginia Council of Teachers of Mathematics Annual Conference, Radford, VA.

***Largen, A., *Leo, C.,** Manizade, A. G. (March 2018). *GeoGebra Workshop for Intermediate Level*. Session Presented at the 2018 Virginia Council of Teachers of Mathematics Annual Conference, Radford, VA.

Manizade, A. G., Mistele, J. (March 2017). *Writing for a Practitioner Journal*. Session Presented at the 2017 Virginia Council of Teachers of Mathematics Annual Conference, Harrisonburg, VA.

***Akers, M., *Banks D., *Brendle, H., *Epps, D., *Funkhouser, R., *Graf, H., *Guzman, K., *Isom, K., *Wallace, V., *Winkler K.,** Manizade, A. G. (March 2017). *Wrap Your Mind Around the Area of the Circle*. Session Presented at the 2017 Virginia Council of Teachers of Mathematics Annual Conference, Harrisonburg, VA.

Manizade, A.G., Younes, R. (March 2016). *Writing an Article Based on Your Own Teaching: Why and How?* Session presented at the Virginia Council of Teachers of Mathematics, Stafford, VA.

***Banks, D., *Becouvarakis, S., *Guzman, K., *Lambert, J., *Smith, A.,** Manizade, A. G., Younes, R. (March 2016). *Using Technology to Teach Geometry and Measurement.* Session presented at the Virginia Council of Teachers of Mathematics, Stafford, VA.

Manizade, A.G., Jacobsen, L., ***Brady, S., *Dickerson, P.,** (March 2012). *Lessons Learned: Radford University Mathematics & Science Partnership Project.* Session presented at the Virginia Council of Teachers of Mathematics, Roanoke, VA.

Manizade, A. G., Jacobsen, L., (March 2011). *Teaching Algebra, Functions, and Data Analysis (AFDA)* (9-12) Session presented at the Virginia Council of Teachers of Mathematics, Richmond, VA.

Manizade, A. G., (September 2009). *Making Connections between Algebra & Geometry.* Session Presented at the Virginia State Algebra and 21st Century Connections: Implications for Instruction, Richmond, VA.

Manizade, A. G., (October 2006). *Classroom Implications of Theories of Geometry Learning and Teaching.* Session presented at the South Carolina Council of Teachers of Mathematics, Myrtle Beach, SC.

Che, S.M., Manizade, A. G., (October 2006). *Identity, Dispositions, and Avenues for Change.* Session presented at the South Carolina Association of Teacher Educators, Myrtle Beach, SC.

EDITED JOURNALS

Peer-Reviewed Journals

Manizade, A. G., Mistele, J., ***Chaffin, G., *Young, A., *Hurst G.** (Eds.) (2021). *Virginia Mathematics Teacher*, 47(2). Richmond: Virginia Council of Teacher of Mathematics. ISSN 2474-8749

Manizade, A. G., Mistele, J., ***Burnley, A., *Chaffin, G.** (Eds.) (2020). *Virginia Mathematics Teacher*, 47(1). Richmond: Virginia Council of Teacher of Mathematics. ISSN 2474-8749

Manizade, A.G., Orrill, C. (Eds.) (2020). "International Perspectives on Frameworks for Mathematics Teachers' Knowing and Quality of Mathematics Instruction." *Research in Mathematics Education*, Special Issue. London: The International Journal of the British Society for Research into Learning Mathematics. <https://www.tandfonline.com/toc/rrme20/22/2>
DOI: [10.1080/14794802.2020.1798809](https://doi.org/10.1080/14794802.2020.1798809).

Manizade, A. G., Mistele, J., ***Burnley, A.** (Eds.) (2020). *Virginia Mathematics Teacher*, 46(2). Richmond: Virginia Council of Teacher of Mathematics. ISSN 2474-8749

Manizade, A. G., Mistele, J., ***Burnley, A.** (Eds.) (2019). *Virginia Mathematics Teacher*, 46(1). Richmond: Virginia Council of Teacher of Mathematics. ISSN 2474-8749

Manizade, A. G., Mistele, J., ***Leo, C., & *Largen, A.** (Eds.) (2019). "For the Love of Students, We Teach Mathematics!" *Virginia Mathematics Teacher*, 45(2). Richmond: Virginia Council of Teachers of Mathematics. ISSN 2474-8749

Manizade, A. G., Mistele, J., ***Leo, C., & *Largen, A.** (Eds.) (2018). "Reach for the Stars!" *Virginia Mathematics Teacher*, 45(1). Richmond: Virginia Council of Teachers of Mathematics. ISSN 2474-8749

Manizade, A. G., Mistele, J., ***Leo, C., & *Largen, A.** (Eds.) (2018). “Moving Mountains with Mathematics!” *Virginia Mathematics Teacher*, 44(2). Richmond: Virginia Council of Teachers of Mathematics. ISSN 2474-8749

Manizade, A. G., Mistele, J., ***Leo, C., & *Largen, A.** (Eds.) (2017). “Community of Heroes!” *Virginia Mathematics Teacher*, 44(1). Richmond: Virginia Council of Teachers of Mathematics. ISSN 2474-8749

On-line Proceedings

Mistele, J. M., ***Leo, C. T., & Manizade, A. G.** (Eds.) (2018). Moving mountains with mathematics. *Proceedings of the 2018 Annual Conference of the Virginia Council of Teachers of Mathematics*, 1. Retrieved from <http://www.vctm.org/2018-Annual-Conference-Proceedings>

REFERENCES

References are available upon request