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## MADHAVI VISHNUBHOTLA

Post-Doctoral Research Associate, Mathematics Department, Virginia Tech  
madhaviv@vt.edu

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### EDUCATION

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June 2020	Ph.D. in Mathematics Education, Montclair State University Advisor: Teo Paoletti
Aug 2004	M.S. in Mathematics, Osmania University, India
Dec 1991	B.Ed. in Mathematics, Andhra University, India
June 1990	B.S. in Mathematics, Andhra University, India

### UNIVERSITY TEACHING EXPERIENCE

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Fall 2020	<i>Calculus of a Single Variable (MATH 1225)</i> , Instructor, Virginia Tech University
Spring 2019	<i>Mathematics for Teaching (MATH 370)</i> , Teaching Assistant, Undergraduate Course, Montclair State University
Fall 2018	<i>Mathematics in Elementary Schools P-6 (MTHM 201)</i> , Teaching Assistant, Undergraduate Course, Montclair State University
Fall 2017	<i>Mathematics in Elementary Schools P-6 (MTHM 201)</i> , Teaching Assistant, Undergraduate Course, Montclair State University
Fall 2016	<i>Mathematics in Elementary Schools P-6 II (MTHM 302)</i> , Teaching Assistant, Undergraduate Course, Montclair State University

### K-12 TEACHING EXPERIENCE

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(At various institutions I taught Geometry, Calculus AB, and Calculus BC courses.)

2000-2015	High School Mathematics Teacher, New Delhi, India
Aug 2012-Dec 2013	High School Mathematics Teacher, Downingtown East High School, Exton, PA (Fulbright Teacher Exchange Program)
1997-2000	High School Mathematics Teacher, Bengaluru, India

### RESEARCH EXPERIENCE

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**Fall 2020-Present** Postdoctoral Research Associate, *Evaluating the Uptake of Research-Based Instructional Strategies in Undergraduate Chemistry, Mathematics, and Physics (RBIS)*

Principal Investigator: Dr. Estrella Johnson

Funded by: NSF IUSE Award #1726281

**Brief Description:** We are investigating the knowledge about, and use of, research based instructional strategies of instructors of introductory mathematics courses. The project aims to increase our understandings of the reasons why instructors choose to use or not use RBIS.

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**March 2017- Present** Research Assistant, *Developing Middle School Students' Understandings of Coordinate Systems (Mid-CoS)*

Principal Investigator: Dr. Teo Paoletti.

Funded by: Spencer Foundation, \$50, 000

Brief Description: We are examining possible ways to support middle-grade students developing ideas of functions, variables, graphs, and rate of change via reasoning about relationships between quantities. The project aims to develop understandings of how to support middle school students in leveraging covariational reasoning to construct mathematical ideas and to create curricular materials teachers can use in their own classrooms for this purpose.

**May 2018- June 2020** Research Assistant, *Adjunct Mathematics Instructors Resources and Support: Improving Undergraduate Precalculus Teaching and Learning Experiences (AMIRS)*

Principal Investigator: Dr. Eileen Murray and Co-PI: Dr. Amir Golnabi.

Funded by: NSF IUSE Award #1712058, \$300,000

Brief Description: This project aims to explore how we can better support adjunct precalculus instruction at Montclair State University through a combination of (a) course coordination, (b) adopting a research-based reform-oriented curriculum, and (c) providing professional development in the form of a summer workshop and weekly meetings.

**Sep 2016-Present** Research Assistant, *Examining Teachers' Understandings of Graphing Conventions*

Project Lead: Dr. Teo Paoletti

Brief Description: In collaboration with Dr. Jason Silverman at Drexel University, Dr. Kevin Moore at University of Georgia and several Montclair State University graduate students, we are examining in-service teachers' understandings of various mathematical ideas in relation to graphing conventions.

**Jan 2016- Present** Research Assistant, *STEM Graphs Project*

Principal Investigator: Dr. Teo Paoletti.

Brief Description: We are examining how mathematics textbooks use graphical representations and compare these uses to science and engineering textbooks and practitioner journals. By comparing and contrasting the different ways these resources represent information graphically, we intend to examine whether mathematics curriculum developers are presenting mathematics in a way that is attentive and transferable to other STEM fields.

**Sep 2017- May 2018** Research Assistant, *Dynamic Measurement for Volume (DYME-V)*

Lead Investigator: Dr. Nicole Panorkou.

Funded by: National Academy of Education postdoctoral fellowship, \$70,000

Brief Description: We explored measurement in a dynamic way and engaged elementary school students in building 3D objects through dynamic experiences of 'sweeping' lengths and 'extruding' areas to support construct meaning of volume.

**May 2016- Dec 2017** Research Assistant, *How Urban Adolescents Come to Think of Themselves as Mathematicians*

Principal Investigator: Dr. Jamaal Matthews.

Funded by: NSF CAREER Award DRL #1350814, \$ 730,334.00

Brief Description: The project aims to examine how African American and Latino middle and high school students construct their sense of self-identity with mathematics and the role that teachers play in helping to shape those opinions.

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Sep 2015-Aug 2017 Research Assistant, *Dynamic Measurement for Area (DYME-A)*

Principal Investigator: Dr. Nicole Panorkou.

Funded by: Spencer Foundation, \$49,443.80; Career Development Grant, Montclair State University, \$3,075

*Brief Description:* We explored measurement in a dynamic way in order to assist elementary school students in developing a conceptual understanding of area which involves experiences that show how surfaces are created by a “sweeping” of a line.

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## PEER REVIEWED JOURNAL PUBLICATIONS

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Paoletti, T., Lee, H. Y., Rahman, Z., **Vishnubhotla, M.**, & Basu, D. Comparing Graphical Representations in Mathematics, Science, and Engineering Textbooks and Practitioner Journals. *International Journal of Mathematical Education in Science and Technology*. DOI: [10.1080/0020739X.2020.1847336](https://doi.org/10.1080/0020739X.2020.1847336)

**Vishnubhotla, M.**, & Munakata, M. (2018). The mathematics of loopy picture frames. *Mathematics Teaching in the Middle School*, 23 (4), 231-235.

Paoletti, T., Monahan, C. & **Vishnubhotla, M.** (2017). Designing GeoGebra applets to maximize student engagement. *Mathematics Teacher*, 110 (8), 628-630

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## PEER REVIEWED CONFERENCE PROCEEDINGS

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**Vishnubhotla, M.**, & Paoletti, T. (2020) Exploring Shifts In A Student’s Graphical Shape Thinking. In A.I. Sacristán, J.C. Cortés-Zavala & P.M. Ruiz-Arias, (Eds.). *Mathematics Education Across Cultures: Proceedings of the 42nd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Mexico* (pp. 1698–1702). Cinvestav /AMIUTEM / PME-NA. <https://doi.org/10.51272/pmena.42.2020>

Mohamed, M. M., Paoletti, T., **Vishnubhotla, M.**, Greenstein, S., & Lim S. S. (2020) Supporting Students' Meanings for Quadratics: Integrating RME, Quantitative Reasoning and Designing for Abstraction. In A.I. Sacristán, J.C. Cortés-Zavala & P.M. Ruiz-Arias, (Eds.). *Mathematics Education Across Cultures: Proceedings of the 42nd Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Mexico* (pp. 193–201). Cinvestav /AMIUTEM / PME-NA. <https://doi.org/10.51272/pmena.42.2020>

**Vishnubhotla, M.** & Paoletti, T. (2020). Differentiating between Quadratic and Exponential Change via Covariational Reasoning: A Case Study. In Karunakaran, S. S., Reed, Z., & Higgins, A. (Eds.). (2020). *Proceedings of the 23rd Annual Conference on Research in Undergraduate Mathematics Education*. Boston, MA (pp. 614 - 622).

Mohamed, M. M., **Vishnubhotla, M.**, Limbre, A., & Paoletti, T. (in press). Using RME to Support PSTs’ Meanings for Quadratic Relationships. In Karunakaran, S. S., Reed, Z., & Higgins, A. (Eds.). (2020). *Proceedings of the 23rd Annual Conference on Research in Undergraduate Mathematics Education*. Boston, MA (pp. 614 - 622).

Paoletti, T., **Vishnubhotla, M.**, & Mohamed, M. M. (2019) Inequalities and systems of relationships: Reasoning covariationally to develop productive meanings. Otten, S.,

- Candela, A. G., de Araujo, Z., Haines, C., & Munter, C. (2019). *Proceedings of the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. St Louis, MO: University of Missouri (pp. 157-166).
- Paoletti, T., **Vishnubhotla, M.**, Mohamed, M. M., & Cella, R. G. (2019) Comparative and conditional inequalities: A distinction emerging from student thinking. Otten, S., Candela, A. G., de Araujo, Z., Haines, C., & Munter, C. (2019). *Proceedings of the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. St Louis, MO: University of Missouri (pp. 186-190).
- Vishnubhotla, M.** (2019). Examining students' shape thinking in differentiating exponential and quadratic relationships. Otten, S., Candela, A. G., de Araujo, Z., Haines, C., & Munter, C. (2019). *Proceedings of the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. St Louis, MO: University of Missouri (p.1379).
- Paoletti, T., Greenstein, S., **Vishnubhotla, M.**, & Mohamed, M. M. (2019). Designing tasks and 3D physical manipulatives to promote students' covariational reasoning. In Graven, M., Venkat, H., Essien, A. & Vale, P. (Eds.). *Proceedings of the 43rd Conference of the International Group for the Psychology of Mathematics Education* (Vol 3, pp. 193-200). Pretoria, South Africa: PME.
- Paoletti, T., **Vishnubhotla, M.**, & Mohamed, M. M. (2019). Reasoning covariationally to develop productive meanings of systems of relationships and inequalities. In Graven, M., Venkat, H., Essien, A. & Vale, P. (Eds.). *Proceedings of the 43rd Conference of the International Group for the Psychology of Mathematics Education* (Vol 4, pp. 171). Pretoria, South Africa: PME.
- Vishnubhotla, M.** & Paoletti, T. (2019). Reasoning covariationally to distinguish between quadratic and exponential growth. In (Eds.) Weinberg, A., Moore-Russo, D., Soto, H., & Wawro, M., *Proceedings of the 22nd Annual Conference on Research in Undergraduate Mathematics Education* (pp.1048-1054). Oklahoma City, OK.
- Nuzzi, J., Murray, E., **Vishnubhotla, M.**, Rahman, Z., Golnabi, A. & Paoletti, T. (2019). Understanding the impact of supports on adjunct mathematics instructor knowledge. In (Eds.) Weinberg, A., Moore-Russo, D., Soto, H., & Wawro, M., *Proceedings of the 22nd Annual Conference on Research in Undergraduate Mathematics Education* (pp.1161-1162). Oklahoma City, OK.
- Panorkou, N., Basu, D. & **Vishnubhotla, M.** (2018). Investigating volume as base times height through dynamic task design. In T.E. Hodges, G. J. Roy, & A. M. Tyminski, (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 271-274). Greenville, SC: University of South Carolina & Clemson University.
- Paoletti, T., Silverman, J., Moore, K., **Vishnubhotla, M.**, Rahman, Z., Monahan, C. & Germia, E. (2018). Reasoning about quantities or conventions: Investigating shifts in in-service teachers' meanings after an on-line graduate course. In (Eds.) A. Weinberg, C. Rasmussen, J. Rabin, M. Wawro, and S. Brown, *Proceedings of the 21st Annual*

*Conference on Research in Undergraduate Mathematics Education* (pp. 508-516). San Diego, CA.

Paoletti, T., Moore, K., Silverman, J., Liss, D., Musgrave, S., **Vishnubhotla, M.** & Rahman, Z. (2018). Conventions or constraints? Pre-service and in-service teachers' understandings. In (Eds.) A. Weinberg, C. Rasmussen, J. Rabin, M. Wawro, and S. Brown, *Proceedings of the 21st Annual Conference on Research in Undergraduate Mathematics Education* (pp. 87-101). San Diego, CA.

Panorkou, N., & **Vishnubhotla, M.** (2017). Counting square units is not enough: Exploring area dynamically. In T. A. Olson & L. Venenciano (Eds.), *Proceedings of the 44<sup>th</sup> Annual Meeting of the Research Council on Mathematics Learning* (pp. 97-104). Fort Worth, TX.

Paoletti, T., Silverman, J., Monahan, C., Rahman, Z., **Vishnubhotla, M.**, & Germia, E. (2017). Graphing rules or conventions? Teachers' understandings. In E. Galindo & J. Newton, (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 536). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.

Paoletti, T., **Vishnubhotla, M.**, Rahman, Z., Seventko, J. & Basu, D. (2017). Comparing graph use in STEM textbooks and practitioner journals. In (Eds.) A. Weinberg, C. Rasmussen, J. Rabin, M. Wawro, and S. Brown, *Proceedings of the 20th Annual Conference on Research in Undergraduate Mathematics Education* (pp.1386-1392). San Diego, CA.

#### **PEER REVIEWED PUBLICATIONS UNDER REVIEW OR IN PREPARATION**

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Paoletti, T., **Vishnubhotla, M.**, Gantt, A. L., & Mohamed, M. M. (under review) Reasoning quantitatively to develop meanings for systems of relationships [submitted to Educational Studies in Mathematics]

Paoletti, T., Stevens, I. E., **Vishnubhotla, M.**, & Mohamed, M. M. (under review) Comparative and restrictive inequalities [submitted to The Journal of Mathematical Behavior]

Paoletti, T. & **Vishnubhotla, M.** (under review) Leveraging covariational reasoning and emergent shape thinking to distinguish nonlinear and linear relationships. [invited chapter submitted to Quantitative Reasoning in Mathematics and Science Education]

#### **CONFERENCE PRESENTATIONS**

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**Vishnubhotla, M.** & Paoletti, T. (2021, accepted). *Exploring shifts in a student's graphical shape thinking*. Paper to be presented at the 42nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Mazatlán, Sin. Mexico.

Mohamed, M. M., Paoletti, T., **Vishnubhotla, M.**, Greenstein, S., & Lim S. S. (2021, accepted) *Supporting Students' Meanings for Quadratics: Integrating RME, Quantitative Reasoning and Designing for Abstraction*. Paper to be presented at the

42nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Mazatlán, Sin. Mexico.

Paoletti, T., **Vishnubhotla, M.**, & Lim, S. S. (2020, April, cancelled) *Nuances in Students' Meanings for Inequalities: Comparative and Restrictive*. Presentation at the NCTM 2020 Research Symposium. Chicago, IL.

Paoletti, T., **Vishnubhotla, M.**, & Mohamed, M. M. (2020, April, cancelled) *Reasoning Quantitatively to Construct & Represent Systems of Relationships*. Poster at the NCTM 2020 Research Symposium. Chicago, IL.

Paoletti, T., **Vishnubhotla, M.**, & Mohamed, M. M. (2020, April, cancelled) *Playing with Water and Learning about What Graphs Represent*. Presentation at the Annual Meeting and Exposition of the National Council of Teachers of Mathematics (NCTM). Chicago, IL.

**Vishnubhotla, M.** & Paoletti, T. (2020). Differentiating between quadratic and exponential change via covariational reasoning: A case study. Paper presented at the Special Interest Group of the Mathematical Association of American on Research in Undergraduate Mathematics Education (SIGMAA on RUME) in Boston, MA.

Mohamed, M., **Vishnubhotla, M.**, Limbere, A., Banner, A. & Paoletti, T. (2020). *Using RME to support PSTs' meanings for quadratic relationships*. Paper presented at the Special Interest Group of the Mathematical Association of American on Research in Undergraduate Mathematics Education (SIGMAA on RUME) in Boston, MA.

Paoletti, T., Mohamed, M. M, & **Vishnubhotla, M.** (2019). Comparative and conditional inequalities: A distinction emerging from student thinking. Paper presented at 41st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), St Louis, MO.

Paoletti, T., **Vishnubhotla, M.**, & Mohamed, M. M. (2019). Inequalities and systems of relationships: Reasoning covariationally to develop productive meanings. Paper presented at 41st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), St Louis, MO.

**Vishnubhotla, M.** (2019). *Examining students' shape thinking in differentiating exponential and quadratic relationships*. Poster presented at 41st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), St Louis, MO.

**Vishnubhotla, M.**, & Mohamed, M. M. (2019). *Reasoning with rate of change: Comparing quadratics and exponentials*. Presentation given at the 2- Day Annual Conference 2019 of the Association of Mathematics Teachers of New Jersey, Windsor, NJ.

Paoletti, T., Greenstein, S., **Vishnubhotla, M.**, & Mohamed, M. M. (2019). *Designing tasks and 3D physical manipulatives to promote students' covariational reasoning*. Paper presented at the 43rd Conference of the International Group for the Psychology of Mathematics Education, Pretoria, South Africa: PME.

Paoletti, T., **Vishnubhotla, M.**, & Mohamed, M. M. (2019). *Reasoning covariationally to develop productive meanings of systems of relationships and inequalities*. Paper

presented at the 43rd Conference of the International Group for the Psychology of Mathematics Education, Pretoria, South Africa: PME.

**Vishnubhotla, M. & Panorkou, N. (2019).** *Explore the distinction between quadratic and exponential growth using dynamic tasks.* Presentation given at the National Council of Teachers of Mathematics, National Annual Meeting & Exposition, San Diego, CA.

**Vishnubhotla, M. & Paoletti, T. (2019).** *Inservice teachers' distinctions between quadratic and exponential growth.* Paper Presented at the National Council of Teachers of Mathematics, Research Conference, San Diego, CA.

**Vishnubhotla, M. & Paoletti, T. (2019).** *Reasoning covariationally to distinguish between quadratic and exponential growth.* Paper Presented at the meeting of the Special Interest Group of the Mathematical Association of American on Research in Undergraduate Mathematics Education (SIGMAA on RUME) in Oklahoma City, OK.

Nuzzi, J., Murray, E., **Vishnubhotla, M.**, Rahman, Z., Golnabi, A. & Paoletti, T. (2019). *Understanding the impact of supports on adjunct mathematics instructor knowledge.* Poster presented at the meeting of the Special Interest Group of the Mathematical Association of American on Research in Undergraduate Mathematics Education (SIGMAA on RUME) in Oklahoma City, OK.

Panorkou, N., Basu, D. & **Vishnubhotla, M.** (2018). *Investigating volume as base times height through dynamic task design.* Paper Presented at 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Greenville, SC.

**Vishnubhotla, M.**, Paoletti, T., Rahman, Z., Moore, K. & Silverman, J. (2018). *Conventions as choices or rules: Teachers' understandings.* Paper Presented at the National Council of Teachers of Mathematics, Research Conference, Washington, DC.

Panorkou, N. & **Vishnubhotla, M.** (2018). *Using dynamic design to illustrate the multiplicative relationship of area.* Paper Presented at the National Council of Teachers of Mathematics, Research Conference, Washington, DC.

**Vishnubhotla, M.**, Paoletti, T. & Monahan, C. (2018). *Exploring limits and approximations of definite integrals using GeoGebra.* Presentation given at the NCTM National Annual Meeting & Exposition, Washington, DC.

Paoletti, T., Silverman, J., Moore, K., **Vishnubhotla, M.**, Rahman, Z., Monahan, C. & Germia, E. (2018). *Reasoning about quantities or conventions: Investigating shifts in in-service teachers' meanings after an on-line graduate course.* Paper Presented at the meeting of the Special Interest Group of the Mathematical Association of American on Research in Undergraduate Mathematics Education (SIGMAA on RUME) in San Diego, CA.

Paoletti, T., Moore, K., Silverman, J., Liss, D., Musgrave, S., **Vishnubhotla, M.** & Rahman, Z. (2018). *Conventions or constraints? Pre-service and in-service teachers' understandings.* Paper Presented at the meeting of the Special Interest Group of the Mathematical Association of American on Research in Undergraduate Mathematics Education (SIGMAA on RUME) in San Diego, CA.

Paoletti, T., Silverman, J., **Vishnubhotla, M.**, Rahman, Z., Monahan, C. & Germia, E. (2017). *Graphing rules or conventions? Teachers understandings*. Poster presented at the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Indianapolis, IN.

**Vishnubhotla, M.** & Panorkou, N. (2017). *A learning trajectory for visualizing area as a dynamic continuous quantity*. Paper Presented at the National Council of Teachers of Mathematics 2017 Research Conference, San Antonio, TX.

Basu, D., **Vishnubhotla, M.** & Panorkou, N. (2017). *Visualizing the area formula dynamically: Why length times width?* Presentation given at the National Council of Teachers of Mathematics, National Annual Meeting & Exposition, San Antonio, TX.

Paoletti, T., Monahan, C. & **Vishnubhotla, M.** (2017). *Designing GeoGebra applets to maximize student engagement*. Presentation given at the National Council of Teachers of Mathematics, National Annual Meeting & Exposition, San Antonio, TX.

Paoletti, T., **Vishnubhotla, M.**, Rahman, Z., Seventko, J. & Basu, D. (2017). *Comparing graph use in STEM textbooks and practitioner journals*. Paper Presented at the meeting of the Special Interest Group of the Mathematical Association of American on Research in Undergraduate Mathematics Education (SIGMAA on RUME) in San Diego, CA.

Panorkou, N. & **Vishnubhotla, M.** (2017). *Counting square units is not enough: Exploring area dynamically*. Paper Presented at the 44th Annual Conference of the Research Council on Mathematics Learning, Fort Worth, TX.

Panorkou, N., **Vishnubhotla, M.** & Basu, D. (2016). *Making sense of length times width through dynamic task design*. Presentation given at Annual Winter Conference 2016 of the Association of Mathematics Teachers of New Jersey, Windsor, NJ.

Panorkou, N., **Vishnubhotla, M.** & Basu, D. (2016). *Developing students' thinking of dynamic measurement*. Presentation given at the National Council of Teachers of Mathematics Regional Conferences & Expositions, Philadelphia, PA.

## DEPARTMENTAL PRESENTATIONS

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Mohamed, M., **Vishnubhotla, M.** & Cella, R. (2019). *A new notation emerged from student thinking: Comparative and conditional inequalities statements*. Presentation given at the Annual Student Research Symposium, Montclair State University, New Jersey.

**Vishnubhotla, M.**, Rahman, Z., Seventko, J. & Basu, D. (2017). *Comparing graph use in stem textbooks and practitioner journals*. Presentation given at the Annual Student Research Symposium, Montclair State University, New Jersey.

Rahman, Z., **Vishnubhotla, M.**, Germia, E., Monahan, C. (2017). *Graphing rules or conventions? Teachers' understandings*. Presentation given at the Annual Student Research Symposium, Montclair State University, New Jersey.



Basu, D. & **Vishnubhotla, M.** (2016). *Introducing dynamic measurement: a new approach to area and volume*. Presentation given at the Annual Student Research Symposium, Montclair State University, New Jersey.

**Vishnubhotla, M.** & Basu, D. (2016). *Designing a learning trajectory for developing students' thinking of dynamic measurement*. Poster presented at the Annual Student Research Symposium, Montclair State University, New Jersey.

## AWARDS

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<b>Registration Scholarship</b>	2019
Awarded by the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)	
<b>Registration Scholarship</b>	2017
Awarded by the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)	
<b>J. William Fulbright Foreign Scholarship</b>	2012
Award for a Fulbright Classroom Teacher Exchange Program	

## PROFESSIONAL MEMBERSHIP

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National Council of Teachers of Mathematics (NCTM)  
 North American Chapter of the International Group for the Psychology of Mathematics Education (PME NA)  
 New Jersey Association of Mathematics Teacher Educators (NJAMTE)

## SERVICE

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<b>Student Representative of College of Science and Mathematics</b>	2019-2020
Graduate School Dean's Advisory Board, Montclair State University	
<b>Reviewer</b>	2020
Conference in Research in Undergraduate Mathematics Education	
<b>Reviewer</b>	2019
Research Conference of the National Council of Teachers of Mathematics	
<b>Student Volunteer</b>	2018
28 <sup>th</sup> Annual Association of Mathematics Teachers of New Jersey (AMTNJ) Conference	
<b>Student Volunteer</b>	2017
27 <sup>th</sup> Annual Association of Mathematics Teachers of New Jersey (AMTNJ) Conference	
<b>Reviewer</b>	2017
Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)	