

Cornelis de Groot, Ph.D.  
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### Education

Doctor of Philosophy, Mathematics and Mathematics Education, May 2000. New York University, New York, NY.

Master of Science in Education, Mathematics Education, 1987. State University of New York, New Paltz, NY.

Undergraduate degree for teaching secondary mathematics and physics, January 1982. Stichting Opleiding Leraren, Utrecht, The Netherlands.

### Teaching Certification/Licensure

Mathematics, New York State

Physics and General Science, New York State

Chemistry, New York State

Teaching license from the Netherlands for mathematics and physics

### Professional Experience

- 2015 – present Professor of Secondary Mathematics Education. University of Rhode Island, Kingston, RI. (1.0)
- 2008 – 2015 Associate Professor of Secondary Mathematics Education. University of Rhode Island, Kingston, RI. (1.0)
- 2004 – 2008 Associate Professor of Elementary Education. State University of New York, New Paltz, NY, mathematics, science and technology education. (1.0)
- 1998 – 2004 Assistant Professor of Elementary Education. State University of New York, New Paltz, NY, mathematics, science and technology education. (1.0)
- 1996 – 1997 Teacher of mathematics in the Itinerant Computer Instruction Program, Ulster BOCES, New Paltz, NY, supporting K-5 teachers piloting and implementing mathematics reform curricula (0.2).
- 1993 – 1997 Teacher of mathematics, Ulster BOCES, New Paltz, NY, designer and teacher of the Electronic Learning Environment Calculus on-line course. (0.2)
- 1986 – 1989 Adjunct professor in the Department of Mathematics and Computer Science. State University of New York, New Paltz, NY, taught college algebra and introduction to modern mathematics.
- 1985 – 1996 Teacher of Mathematics. New Paltz High School, New Paltz, NY. Taught any course from general mathematics to AP-Calculus AB and BC. (1.0)
- 1983 – 1985 Teacher of Physics and Chemistry, and Science Department chair. Millbrook High School, Millbrook, NY. (1.0)

1982 – 1983 Teacher of Mathematics grades 7-9. Rijks Scholen Gemeenschap “de Meergronden”, Almere, the Netherlands. (1.0)

#### Awards, Grants, and Honors

- 2013 Robert Noyce Scholarship grant award for period 2013 - 2018. Co-principal investigator with Drs. Seitsinger, Fogleman, Libertini, Peckham, Byrd, and Peno. Funded by the National Science Foundation at \$1,194,051.
- 2013 Enriching Learning and Teaching in STEM Areas With Disciplinary Literacies, New Technologies, and Inclusive Teaching Practices. Proposal submitted to and funded by CEMS to support the connection between literacies and methods courses in STEM areas in secondary education. Funded at \$4000 to support collaborative work with Drs. Coiro, Fogleman, and Kern.
- 2012 Rhode Island Board of Governors of Higher Education College Access Challenge Grant award for project entitled Rhode Island University Initiative for College and Career Readiness. Co-investigator with Drs. Kern and Byrd. Funded at \$99,937.
- 2012 University of Rhode Island Innovative Approaches Using Technology to Enhance the Student Experience at URI award for proposal entitled *Helping URI Freshmen Manage Their Knowledge To Enhance Success Using State of the Art Tools and Strategies*. Co-investigator with Drs. Fogleman and Kern. Funded at \$21,867.
- 2011 Travel Grant for attending Elementary Mathematics Specialist conference with a Rhode Island Team, Louisville, Kentucky, organized by the Association of Mathematics Teacher Educators. \$2500.
- 2007 Discretionary salary increase, minor award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2006 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2005 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2003 Teacher Leader Quality Partnership (TLQP) Title IIA Higher Education competitive grant award: New York State K-8 Mathematics Mentor Network for the period of 2003-2008, funded at \$85,039 per year. Total funding for period: \$425,195.
- 2003 Student Computer Access Program award, SUNY New Paltz. Proposal for a Mobile Learning Academy funded at approximately \$24,000.
- 2003 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2002 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2001 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service SUNY New Paltz.
- 2000 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.

- 1999 DDE Title IIA Higher Education competitive grant award: New York State K-8 Mathematics Mentor Network for the period of 1999-2003, funded at \$78,500 per year. Total funding for period: \$314,000.
- 1997 Exemplary Practice Award from Ulster County Board of Cooperative Educational Services, New Paltz, NY.
- 1996 Inducted in Phi Delta Kappa honor society, New York University Chapter.
- 1996 Research Assistant to the Mathematics Science and Technology Enhancement Program at New York University, New York, NY.
- 1995 Research Assistant to the Connected Mathematics Project, Michigan State University, East Lansing, MI., at Louis Armstrong Middle School, East Elmhurst, NY.
- 1994 Presidential Award for Excellence in Mathematics and Science Teaching (Secondary Mathematics NY); received \$7500 and a computer among many other gifts.
- 1993 First Runner-up for Teacher of the Year of New York State.
- 1993 Master Teacher in National Teacher Training Institute, sponsored by WNET, New York, NY, instructing teachers in educational uses of television and published five applications for the classroom.
- 1992 Pride of Ulster County award in recognition of coaching the New Paltz High School cross-country ski team to the section 9 championship.
- 1991 V.I.S.I.O.N. fellowship, sponsored by Hudson Valley (New York State) industries and SUNY New Paltz, NY, to integrate technology in mathematics and science education based in real-world applications; received \$3000 plus software and hardware.
- 1984 IBM Community Grant for setting up an electronics club, received \$ 1000.

## Publications

### Books Edited and Authored

de Groot, C., Ed. (2000). *Best of Secondary Mathematics Exemplars*. Underhill, VT: Exemplars, Inc. (Published as a CD-ROM).

de Groot, C., Ed. (1999). *Exemplars Mathematics 9-12, Module 3*. Underhill, VT: Exemplars, Inc.

de Groot, C., Ed. (1996). *Exemplars Mathematics 9-12, Module 2*. Underhill, VT: Exemplars, Inc.

de Groot, C., Ed. (1995). *Exemplars Mathematics 9-12, Module 1*. Underhill, VT: Exemplars, Inc.

### Book Chapters

de Groot, C., Fogleman, J., & Kern, D. (2014). Using mobile technologies to co-construct TPACK in teacher education. J. Keengwe & M. B. Maxfield (Eds.). *Advancing Higher Education with Mobile Learning Technologies: Cases, Trends, and Inquiry-Based Method*, Hershey. PA: IGI Global Publications. XX-XX. doi:10.4018/978-1-4666-6284-1

Papers (refereed)

de Groot, C., Fogleman, J., & Kern, D. (2013, November). *STEM student teachers' uses of iPads: Planning, Teaching and Managing, and Reflecting*. Annual meeting of the School Science and Mathematics Association, San Antonio, TX.

Kern, D., Fogleman, J., & de Groot, C. (2013, November). *Hold hands and stick together: Using iPad technology to enhance teachers' planning, instruction and reflection*. Annual meeting of the Association of Literacy Educators and Researchers, Dallas, TX.

Fogleman, J., de Groot, C., and Kern, D., Byrd, D. (2013). *Using Evernote to Support Preservice Teachers' Personal Knowledge Management*. Paper presented at the annual conference of the Association of Teacher Educators (ATE) in St. Louis, MO.

Fogleman, J., de Groot, C., and Kern, D., Byrd, D. (2012). *Infusing Tablet Computers into the Student Teaching Triad: Student Teachers' Use of iPads for Planning, Teaching, and Reflection*. Paper presented at the annual conference of the Association of Teacher Educators (ATE) in Atlanta, GA.

de Groot, C. (2012). *Teaching for Mathematical Structure: Equivalence and the Identity Property*. Paper presented at the annual School Science and Mathematics Association Convention, Birmingham, Alabama.

de Groot, C. (2010) *School-University Partnerships: Connecting with Existing Professional Development Practices*. Paper presented at the International Consortium for Research in Science and Mathematics Education XIII, La Manzanilla, Mexico.

de Groot, C. (2010). *A Teacher-Centered School-University Partnership: Linking with Existing Professional Development Practices*. School, Science, and Mathematics Association 2010 Convention, Reno, NV.

de Groot, C., and Isabelle, A. (2009). *Adding Value: Partnering the Learning of Preservice and Inservice Teachers in an MST-focused University-School Partnership*. Paper co-presented at the International Conference of the Association for Science Teacher Education (ASTE), Hartford, Connecticut.

de Groot, C. (2007). *Connecting Mathematics, Science, and Technology in Partnership: Making Teacher Education Real*. Paper presented at the annual School, Science, and Mathematics Association Convention, Indianapolis, IN.

de Groot, C., and Isabelle, A. (2006). *The Itakura Method: Elementary Pre-Service Teachers' Retention of New Concepts in Heat Expansion*. Paper presented at the annual School, Science and Mathematics Association Convention, Missoula, MT.

de Groot, C. (2006). *Realistic Teacher Education in the Netherlands: Realistic for the United States?* Paper presented at the NCTM Annual Meeting and Exposition, St. Louis, MO.

de Groot, C. (2005). *Realistic Teacher Education in the Netherlands: Realistic for US?* Paper presented at the annual meeting of the School Science and Mathematics Association, Fort Worth, TX.

de Groot, C., and Isabelle, A. (2004). *Alternate Conceptions of Pre-service Elementary Teachers: The Itakura Method* Paper co-presented at the annual meeting of the School Science and Mathematics in Atlanta, GA.

de Groot, C., and Bell, K.. (2003). *Connecting Math, Science, and Technology in Elementary Education: What We Have Learned*. Paper co-presented at the annual meeting of the School Science and Mathematics, Columbus, OH.

de Groot, C., and Bell, K. (2006). *Reciprocal concepts as a guiding principle for Connecting Mathematics, Science, and Technology*. Paper co-presented at the annual meeting of the School Science and Mathematics Association, Rochester, NY.

Rudnitski, R., Ferrara, M., and de Groot, C. (2002). *Collaborating for Institutional and Individual Growth: Transcending the Boundaries*. Co-presented at the annual Meeting of the American Education Research Association, New Orleans, Louisiana.

Solomon, P., de Groot, C., and Searson, R. (2002). *Reaching for Teacher Ownership of State-Mandated Assessments*. Paper co-presented at the annual meeting of the American Education Research Association, New Orleans, Louisiana.

de Groot, C. (2002). *The New Three R's: Rigor, Research, and Reflection*. Paper presented at the annual Mathematics Education Institute, New Mexico State University, Las Cruces, NM.

de Groot, C., and Bell, K. (2001). *Building a Syllabus: Connecting mathematics, science and technology in elementary education*. Paper co-presented at the 100<sup>th</sup> annual meeting of the School Science and Mathematics Association in Chicago, IL.

#### Articles (refereed)

de Groot, C., & Boyajian, M. (2015). Like terms: What's in a name? *Mathematics Teacher*, NCTM, Reston, VA, (108), 7, 506-511.

de Groot C., & Hersey, N. (2015). When products are sums. *New York State Mathematics Teachers' Journal*, (65), 1, 22-27.

de Groot, C., and A.D. Isabelle (2012). Making inroads: Connecting preservice and inservice teachers in a school-university partnership centered on inquiry. *Excelsior: Leadership in Teaching and Learning*, (6), 2, 3-22.

de Groot, C. (2011). The identity crisis. *New York State Mathematics Teachers' Journal* (61), 3, 108-113.

Chorzempa, B., Isabelle, A.D., and C. de Groot (2010). Our quest for mutualism in University-School partnerships. *The Educational Forum*, (74), 4, 306-317.

de Groot, C. (2009). Go fly a kite! *Ontario Mathematics Gazette*, (47), 3, 33-37.

de Groot, C., and A.D. Isabelle (2009). Adding value: Partnering the learning of preservice and inservice teachers. *Excelsior: Leadership in Teaching and Learning* (3), 2, 8-27.

Isabelle, A.D., and C. de Groot (2009). Leaves: Nature's solar collectors. *Science and Children*, National Science Teacher Association, (46), 6, 38-42.

Isabelle, A.D., and C. de Groot (2008). Alternate Conceptions of Pre-service Elementary Teachers: The Itakura Method. *Journal for Science Teacher Education*, (19), 417-435.

de Groot, C. (2008). Tangrams are not toys. *Ontario Mathematics Gazette*, (46), 3, 35-38. (Reprinted)

Drake, P., and C. de Groot (2007). What's your target? *New York State Mathematics Teachers' Journal* (57), 1, 29-33.

Moone, G., and C. de Groot (2006). Fraction action. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 5, 266-271.

de Groot, C., and T. Whalen (2006). Longing for Division. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 8, 410-418.

Moone, G., and C. de Groot (2005). Time is of the Essence. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 2, 90-98.

Drake, P., and C. de Groot (2005). Toeing the Line. *New York State Mathematics Teachers' Journal*, (55), 2, 37-40.

de Groot, C. (2003). From number to variable: Transition to algebraic factoring. *Ontario Mathematics Gazette*, (42), 1, 7-11.

de Groot, C. (2003). Place value and the elusive decimal point. *New York State Mathematics Teachers' Journal*, (53), 1, 37-40.

de Groot, C. (2002). Calculating with time: Linearize it! *New York State Mathematics Teachers' Journal*, (52), 3, 150-155.

de Groot, C. (2002). Tangrams are not toys. *Ontario Mathematics Gazette*, (40), 3, 28-31.

de Groot, C. (2001). From description to proof. *Mathematics Teaching in the Middle School*, (7), 4, 244-248.

de Groot, C. (2001). Marshmallow peeps: Fostering a K-12 connection. *New York State Mathematics Journal*, (51), 1, 23-29.

de Groot, C. (1999). Robert will not use manipulatives ... or will he? *New York State Mathematics Journal*, (49), 2, 85-93.

Articles Edited (Investigations Section of *Teaching Children Mathematics*, Volumes 12 and 13)

Isabelle, A.D., and K. Bell (2007). Sun catchers. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 8, 414-423.

Moone, G., and C. de Groot (2006). Fraction action. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 5, 266-271.

Gebhard, G. (2006). A mathematics cornucopia of pumpkins. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 2, 68-78.

de Groot, C., and T. Whalen (2006). Longing for Division. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 8, 410-418.

Bell, K. (2006). Easy Parcheesi. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (12), 6, 312-322.

Colomb, J., and K. Kennedy (2005). Your better half. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (12), 4, 180-190.

Moone, G., and C. de Groot (2005). Time is of the Essence. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 2, 90-98.

## Sections contributed to other works

de Groot, C., & M. Torche, (1993). Pressure, what it Boyle's down to. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Up, down and all around. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Down to Earth. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Off the wall. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Tick tock, it looks like a clock. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Over the edge. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

## Selected Presentations, Guest Lectures, Workshops, and Institutes

### International

*School-University Partnerships: Connecting with Existing Professional Development Practices*. Paper presented at the 2010 International Consortium for Research in Science and Mathematics Education XIII, La Manzanilla, Mexico.

*Tangrams are Not Toys!* Workshop presentation at the 2002 Canadian Regional Meeting of the National Council for Teachers of Mathematics, Montreal, Canada.

*For the Love of Effective Assessment* (1998). Special Event Seminar, Regina, Saskatchewan, Canada.

### National and Regional

*Equivalence, Rational Number, and Ratio* (June 17-29, 2016). A series of three workshops on three consecutive days at NEW<sup>3</sup>, a joint conference of AMTNYS, AMTNJ, and ATMNE, Iona College, New Rochelle, NY.

*When Products are Sums* (October 28, 2015). Workshop/presentation co-presented with Nicole Hersey, at AMTNE Annual Conference, Portland, Maine.

*Common Core Super Models: Marshmallow Peeps* (October 2015). Keynote Address for the Fall Meeting of the Rhode Island Mathematics Teachers Association at New England Tech, East Greenwich, RI.

*From Bridges to Spiders: Modeling Natural and Man-made Structures with Functions* (July 28-30, 2015). Workshop at Third Annual Summer Institute at Lesley College, Boston, MA.

*Teaching for Mathematical Structure: Equivalence and the Identity Properties* (2013). Presentation for middle and high school teachers at the annual 2013 conference of the Association of Teachers of Mathematics In Massachusetts, Marlboro, MA.

*Illuminating a Bridge to Algebraic Factoring* (2011). Presentation for middle and high school teachers at the fall conference of the Association of Teachers of Mathematics in New England, Warwick, RI.

*Teaching Proving: From Three to Two Columns* (2010). Presentation for middle and high school teachers and teacher educators at the fall conference of the Association of Teachers of Mathematics in New England, Nashua, NH.

*Exemplars Formative Assessment Summer Institute* (2009). Workshop on using performance assessment tasks and rubrics in formative assessment practices for the Atlanta Public School System, Atlanta, Georgia.

*Picture Perfect Squares* (2008). Workshop for middle and high school teachers and teacher educators at the School Science and Mathematics 2008 Convention, Raleigh-Durham, North Carolina.

*Picture perfect squares.* (2008). Workshop for middle and high school teachers and teacher educators at the annual meeting of the Association of Teachers of Mathematics of New England, Portland, Maine.

*Teaching geometry with plastic toys: straws and tangrams.* (2007). Workshop for middle school and high school teachers and teacher educators at the School, Science, and Mathematics, Association 2007 Convention, Indianapolis, IN.

*Bringing Mathematics into the World.* (2006). Workshop for high school teachers at the Asia Society International Studies Schools Network 2006 Summer Institute. Washington, DC.

*Reasoning with Plastic Toys.* (2004). Presentation at the Southern Regional Meeting of the National Council of Teachers of Mathematics. New Orleans, Louisiana.

*Building a Transition to Factoring Through Number Sense* (2003). Presentation at the 81<sup>st</sup> Annual Meeting of the National Council of Teachers of Mathematics, San Antonio, Texas.

*Exemplars National Institute on Performance Assessment* (2001). Co-organized and conducted three-day mathematics performance assessment institute for about 80 teachers K-12. Denver, CO.

*Robert will not use manipulatives...Or will he?* (2000). Presentation at the National Council of Teachers of Mathematics Eastern Regional Conference. Springfield, Massachusetts

*Launch, Explore, Summarize: What it looks like in a kindergarten classroom* (2000). Presentation at the 78<sup>th</sup> annual meeting of the National Council of Teachers of Mathematics. Chicago, IL

*Good problems solve all your problems* (1999). Presentation at the National Council of Teachers of Mathematics Eastern Regional Conference, Pittsburgh, PA.

*Contrasting mathematics curriculum reform in other countries: An international panel with members from Japan, Australia, the Netherlands and the United Kingdom* (1999). Organized and moderated this panel session for the 77<sup>th</sup> annual meeting of the Council for Teachers of Mathematics, San Francisco, CA.

*Re-emphasizing factoring: Connecting with number sense and pattern* (1999). Workshop conducted at the 77<sup>th</sup> annual meeting of the Council for Teachers of Mathematics, San Francisco, CA.

*How do we provide for a transition to more formal thought? The surprise is in the middle-level classroom* (1997). Presentation at the National Council of Teachers of Mathematics Eastern Regional Conference, Long Island, New York.



*Exemplars: Transforming assessment and instruction through performance tasks* (1997). Workshop at 75<sup>th</sup> Annual Meeting of the National Council of Teachers of Mathematics, Minneapolis, Minnesota.

*Changing practices require change in assessment: What does this look like and how do you grade it?* (1997). Three-hour workshop at the National Council of Teachers of Mathematics Eastern Regional Conference, Rochester, New York.

*Hands-on interactive classroom model for science and mathematics* (1995). Presentation at the National Educational Computing Conference, Baltimore, Maryland.  
State and Local

*The RIMTA Rhode Show: Common Core Standards and Functions, Geometry, and Probability and Statistics* (2013). Three workshops for middle and high school teachers and teacher educators on behalf of Rhode Island Mathematics Teachers Association, Exeter, RI.

*The RIMTA Rhode Show: Common Core Standards and Functions* (2012). Workshop for middle and high school teachers and teacher educators on behalf of Rhode Island Mathematics Teachers Association, Exeter, RI.

*The RIMTA Rhode Show: Common Core Standards and Geometry* (2012). Workshop for middle and high school teachers and teacher educators on behalf of Rhode Island Mathematics Teachers Association, Exeter, RI.

*Using probe interfaces with graphing calculators to teach mathematics* (2011). Workshop for middle and high school teachers and teacher educators at the Rhode Island Mathematics Teachers Association spring conference, Woonsocket, RI.

*Constructible Numbers: Connecting Algebra and Geometry* (2010). Workshop for middle and high school teachers and teacher educators at the Rhode Island Mathematics Teachers Association spring conference, Woonsocket, RI.

*Picture Perfect Squares* (2009). Workshop for middle and high school teachers and teacher educators at the Rhode Island Mathematics Teachers Association fall conference, Quonset, RI.

*Qualitative Research Methods* (2009). Guest Lecture at URI in the graduate course EDP529 Foundations of Education Research with Dr. Joanne Eichinger.

*Using literary forms to analyze qualitative data* (2008). Presentation at Ph.D. In Education Faculty Research Seminar, Rhode Island College.

*Using computer based laboratories to teach secondary mathematics and science* (2007). Guest lecture at SUNY New Paltz in the undergraduate course Science Seminar with Dr. Karen Bell.

*Secondary Mathematics Exemplars Performance Assessment Workshop* (2007). Workshop for high school teachers, staff developers, and principals of Region 9, New York, NY.

*Using literary forms to analyze qualitative data* (2007). Guest lecture at SUNY New Paltz in the graduate course Inquiry II with Dr. Sue Books.

*Reconceptualizing supervision, reflection and practice in teacher education: A European perspective* (2006). Presentation at the Teaching and Learning Center, State University of New York at New Paltz.

*Caring males in education: A forum for men interested in elementary and early childhood education* (2003). Organized and conducted with Dr. Leslie Couse. Mid-Hudson Teacher's Center, SUNY New Paltz, New Paltz, NY.

*New York State K-8 Mathematics Mentor Network informational session* (2003). Presentation at the Conference of the Association of Mathematics Teachers of New York State. Syracuse, NY.

*Developmentally appropriate introduction to fractions* (2003). Presentation at the Summer Conference of the Association of Mathematics Teachers of New York State. Potsdam, NY.

*Using pastiche in qualitative research* (2003). Guest lecture at New York University in the course Qualitative Research II with Dr. Margot Ely.

*Tangrams are not toys!* (2003). Presentation at the 28<sup>th</sup> Annual Ten County Mathematics Conference, North Salem, NY.

*New York State K-8 Mathematics Mentor Network informational session* (2002). Presentation at the Conference of the Association of Mathematics Teachers of New York State. Ellenville, NY.

*Uses of literary forms in the representation of voice and analysis in qualitative research* (2002). Sandwich Seminar at the School of Education, New Paltz, NY.

*Launch, Explore, Summarize, an Inquiry Based model* (2002). Guest lecture in Dr. Margaret Ferrara's graduate course, Models of Teaching, SUNY New Paltz, NY.

*Collegial evening on connecting mathematics, science, and technology* (2002). Co-presented with Dr. Karen Bell. Mid-Hudson Teacher Center, SUNY New Paltz, NY.

*Manipulatives are not toys* (2001). Workshop at the fall student teaching conference of the Department of Elementary Education, SUNY New Paltz, NY.

*Tangrams are not toys!* (2001). Presentation at the 51<sup>st</sup> Annual Conference of the Association of Mathematics Teachers of New York State. Rochester, NY.

*New York State K-8 Mathematics Mentor Network informational session* (2001). Presentation at the Conference of the Association of Mathematics Teachers of New York State. Rochester, NY.

*Tangrams are not toys!* (2001). Presentation at the 26<sup>th</sup> Annual Ten-County Math Conference. Monroe-Woodbury, NY.

*Looking at results by key-ideas: A K-12 point of view* (2000). Presentation at the Annual Conference of the Association of Mathematics Teachers of New York State, Ellenville, NY.

*New York State K-8 Mathematics Mentor Network informational session* (2000). Presentation at the Conference of the Association of Mathematics Teachers of New York State, Ellenville, NY.

*New York State K-8 Mathematics Mentor Network: Want to join?* (2000). Presentation at the MST 2000 Conference. Binghamton, NY.

*What to do when children do not see a reason for using manipulatives* (2000). Presentation at the 25<sup>th</sup> Annual Ten County Mathematics Conference, Arlington, NY.

*Manipulatives in mathematics* (2000). Presentation for Professional Mini-Conference in Elementary Education for Current and Former SUNY New Paltz Pre-service Teachers, SUNY New Paltz, NY.

*Launch, Explore, Summarize: What does it look like in a Kindergarten classroom?* (1999). Presentation at the 24<sup>th</sup> Annual Ten County Math Conference, Chappaqua, NY.

*Good problems solve all your problems* (1998). Workshop at the 48<sup>th</sup> Annual Meeting of the Association of Mathematics Teachers of New York State, Kiamisha Lake, NY.

*Teaching fractions with the array model* (1998). Workshop for the New York State K-6 Mathematics Mentors Fall Institute, Kiamisha Lake, NY.

*Good problems solve all your problems* (1998). Presentation at the 23<sup>rd</sup> annual Ten County Math Conference, Yonkers, NY.

*Technology and performance assessment in mathematics* (1995). Presentation at the 45<sup>th</sup> Annual Meeting of the Association of Mathematics Teachers of New York State, Rye, NY.

*Making sure technology “pays off” with improved student performance* (1995). Presentation at the 3<sup>rd</sup> annual Infinet 2000 Distance Learning Conference, Fishkill, NY.

*Constructions: Interconnected learning experiences enriched through technology* (1994). Presentation at 29<sup>th</sup> Annual Conference of the New York State Association for Computers & Technologies in Education, Uniondale, NY.

*Making connections in high school mathematics using technology* (1994). Presentation at the 44<sup>th</sup> Annual Meeting of the Association of Mathematics Teachers of New York State, Kiamesha Lake, NY.

*Teaching transformation geometry using a simple CAD program* (1992). Presentation at the 27<sup>th</sup> annual conference of the New York State Association for Computers & Technologies in Education, Ellenville, NY.

### School Based Work

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|----------------|---|
| 2013 – present | Providing staff development and guidance for Cranston School District high school mathematics teachers who teach low performing students.   |
| Summer 2013    | Taught summer courses for elementary, middle school, and high school teachers in common core mathematics at Harrison schools, Harrison, NY, Shoreham-Wading River schools, Shoreham, NY, and Mount Pleasant Schools, Hawthorne, NY. |
| 2013 – present | Program auditing and ongoing professional development in K-12 school mathematics instruction, curriculum, and content development in Mount Pleasant Central School District, Hawthorn, NY.  |
| Spring 2013    | Conducted staff development workshop for high school mathematics teachers at the MET charter school in Providence, RI, regarding the teaching of geometry.  |
| Summer 2012    | Conducted demonstration lessons using performance assessment in five urban high schools in Macon, Georgia. Conducted workshops on implementing performance assessment for the teachers of these five schools.                       |

- Summer 2012 Taught a summer course for grades 4-7 teachers regarding fundamental structures in rational numbers and proportional reasoning in Harrison School District, Harrison, NY.
- Summer 2011 Taught a summer course for grades 3-6 teachers regarding fundamental structures in multiplication and division in Harrison School District, Harrison, NY.
- 2010 – present Ongoing professional development in middle and elementary school mathematics instruction, curriculum, and content development in Shoreham-Wading Schools, NY.
- Summer 2009/10 Supervisor of PEACE Algebra Readiness summer program teachers and tutors for incoming freshmen at Central Falls High School.
- 2008 – 2010 Member of the *Mathematics Task Force*, a partnership between the University of Rhode Island and the Central Falls School District for improving student achievement on the New England Common Assessment Program. This work resulted in a mathematics summer program where I consulted weekly with the teachers.
- 2006 – 2008 Mathematics, science, and technology partnership with Lenape elementary school, New Paltz Central Schools, New Paltz, NY: implementing principles of Realistic Teacher Education in site-based course and fieldwork with pre-service and in-service teachers.
- 2006 – 2008 Ongoing professional development in middle school mathematics to improve student achievement on state-wide assessments at Magen David Yeshiva, Brooklyn, NY.
- 2006 – 2007 Conducted a middle school/high school technology program audit for the Harrison Central School district, Harrison, NY.
- 2006 – 2007 Conducted an elementary school mathematics program audit for the Harrison Central School district, Harrison, NY.
- 2006 Mathematics and Cultural Artistic Visual Expressions, a curriculum unit design project I facilitated for a group of teachers from around the US from the Asia Society International Studies Schools Network. This unit focused on mathematics and Islamic art. Metropolitan Learning Center, Bloomfield, CT, July 23-28.
- 2006 – present Facilitated the development of Applied Mathematics curricular strands with high school teachers from the Harrison Central School District, Harrison, NY, June 27-29.
- 2005 – 2006 Conducted a middle school mathematics program audit for the Harrison Central School district, Harrison, NY.
- 2004 – 2008 Ongoing professional development workshops/seminars related to K-12 mathematics curriculum, assessment, and instruction for teachers and administrators for Southern Westchester BOCES, Elmsford, NY.
- 2004 – present Ongoing professional development workshops/seminars and lesson studies related to K-12 mathematics and technology curriculum, assessment, and instruction in the Harrison Central School District, Harrison, NY.
- 2004 – 2005 Conducted a high school mathematics program audit for the Harrison Central School district, Harrison, NY.

- 2003 – 2006 Ongoing professional development workshops/seminars and lesson studies related to K-12 mathematics curriculum, assessment, and instruction in the Port-Chester Rye Unified School District, Port-Chester, NY.
- 2003 – 2005 Mathematics, science, and technology partnership with Ellenville elementary school, Ellenville Central Schools, Ellenville, NY: implementing principles of Realistic Teacher Education in a site-based course and fieldwork with pre-service and in-service teachers.
- 2002 – 2005 Ongoing professional development workshops/seminars related to K-8 mathematics curriculum, assessment, and instruction in the Ellenville Central School District, Ellenville, NY.
- 2001 – 2005 Ongoing professional development workshops/seminars and lesson studies related to curriculum and instruction with grade 6-8 teachers at Copper Beech Middle School, Brush Oak, NY.
- 2001 – 2004 Ongoing professional development workshops/seminars related to curriculum and instruction with grade 6-8 teachers at Pierre van Cortlandt Middle School, Croton-Harmon, NY.
- 2003 *Using Mathematics Rubrics in all Disciplines*. A day-long workshop at Minuteman Technical Vocational Regional High School, in Lexington, Mass.
- 2003 *Using Geometer's SketchPad software in the secondary mathematics classroom*. A one-day workshop at Pearl River High School, Pearl River, NY.
- 2001 – 2002 *Curriculum Alignment and Gap Analysis*. Three one-day workshops for Teachers of grades 1-8. Rockland County BOCES, West Nyack, NY.

### Service

- 2013 Supported the Cranston school district – URI partnership in mathematics together with Dr. Libertini and Dr. Baglama from the mathematics department to provide support to high school students who need to demonstrate adequate progress on the NECAP exam. I provided staff development in the summer for Cranston teachers who work with these students.
- 2013 – 2014 Member of the Committee on Education and Lifelong Learning, Research, and Outreach
- 2012 NCATE/NCTM SPA report sole writer secondary mathematics education, fall 2012. Program was fully nationally accredited spring 2013.
- 2012 Co-organized and co-conducted with Dr. Kern an all-day symposium for higher education faculty across Rhode Island: Common Core State Standards and PARCC Assessments (December).
- 2012 – present Higher Education representative on the RIDE Education Leadership Cadre (ELC) to support the transition to the Common Core State Standards for mathematics and the PARCC assessments

- 2012 – 2013 Supporting the West Warwick school district with an NSF STEM grant proposal.
- 2011 – 2012 Member of the Program Committee for the 2012 annual conference of the Association of Teachers of Mathematics of New England
- 2011 – present Member of the University-wide Taskforce on Advising representing the School of Education.
- 2010 – 2011 Served on the review committee of Dean Lynn McKinney as the designee of Provost Don DeHayes.
- 2010 – present Team Leader of the Secondary Education Team in the School of Education. Spearheaded an effort to revise the secondary education curriculum. Changes approved in spring 2012. Serve on the Education Council. Writer of the secondary education elements of the RIDE accreditation review.
- 2010 – present Director-at-Large on the Board of Directors for the Rhode Island Mathematics Teacher Association.
- 2010 – present Served on the Rhode Island committee to select candidates for the Presidential Award for Excellence in Mathematics and Science Teaching.
- 2010 – present Team Leader of the Rhode Island Team for Elementary Mathematics Specialists. Liaison to the Association of Mathematics Teacher Educators. Working collaboratively with Rhode Island College to develop a master's program.
- 2010 – present Higher Education representative for the Rhode Island Department of Education, Mathematics Education Leadership Committee (MELC)
- 2009 – 2011 Member of the Math Science Learning Institute Steering Committee (now CEMS). Our charge from Provost DeHayes was to develop this Institute. We developed a colloquium focused on interdisciplinary connections in the STEM subjects for the Fall 2009 semester.
- 2008 – present Represented URI at the Math Summit at Rhode Island College called by the Governor.  
Spoke at public hearing of the RI Regents regarding alternative route (fast track) certification: Oct. 2, 2008  
Member of the Graduate Team for School of Education at URI.  
Accepted in to the Ph.D. faculty.  
Served on Peer Review Committees for secondary education.  
Member of RITER objective 1 Committee (mathematical content knowledge) with Central Falls, Pawtucket and Newport school districts.  
Member of Central Falls Math Task Force to develop and implement a summer program in mathematics for incoming freshmen.  
Evaluated dossier of Dr. Judit Kerekes from the College of Staten Island (CUNY), New York, for promotion to associate professor.  
Evaluated Dossier of Dr. Serigne Gningue from Queens College (CUNY), New York, for promotion to full professor.  
Attended Rhode Island Department of Education roll-out of School Leader Standards, January 2009, Warwick, RI.

- Attended RIDE roll-out new Secondary Education Regulations, January 2009, Providence, RI.
- Meet with Math Dept faculty on a monthly basis regarding issues of accreditation, curriculum, and advising.
- Represent the Secondary Education Team and the School of Education at Open House for potential freshmen and welcome days for accepted freshmen.
- 2007 – 2008 Data Analyst for NCATE accreditation for the School of Education at SUNY New Paltz, New Paltz, NY. (Appointed position.)
- 2007 – 2008 Higher Education Liaison for Hudson Valley Regional Math Council, a regional arm of the New York State Mathematics Resource Center.
- 2007 (spring) Interim Coordinator of NCATE for the School of Education at SUNY New Paltz, New Paltz, NY. (Appointed position.)
- 2006 – 2008 Invited by New York State Education Department to serve on the Advisory Committee to guide the development and implementation of the New York State Mathematics Resource Center for staff development K-12 (three-year term).
- 2006 – 2009 Elected member to the Board of Directors of the School Science and Mathematics Association (three-year term), a national organization dedicated to the integration of mathematics and science.
- 2006 – 2009 Chair of the Nomination and Election Committee for the School Science and Mathematics Association.
- 2006 – 2007 Chair of three search committees (literacy, social studies, and science) for the Department of Elementary Education, SUNY New Paltz.
- 2005 – present Member of Proposal Review Committee of the School Science and Mathematics Association.
- 2004 – 2006 Editor for the Investigations Department of *Teaching Children Mathematics*, volume 12 and 13, a publication for grades K – 6 of the National Council for Teachers of Mathematics.
- 2004 – 2005 Served as one of four statewide recognized expert reviewers for the revised K-12 mathematics standards for the New York State Education Department.
- 2004 – 2007 Invited member of the Math Science Technology Partnership Advisory Board of a National Science Foundation funded project at Hofstra University.
- 2004 – 2005 Chair of a search committee for an assistant professor in elementary education with a specialization in mathematics, science, and technology.
- 2004 – 2008 Member of the Institutional Review Board at SUNY New Paltz.
- 2003 – 2006 Member of the Coordinating Council for Assessment in the School of Education at SUNY New Paltz.
- 2003 – 2008 Reviewer of article manuscripts for the Association of Mathematics Teachers of New York State mathematics journal.
- 2003 Reviewed the book manuscript *Teaching and Learning Mathematics in the Middle Grades* for Key College Publishing, published in 2004. Part of my review is quoted in promotional materials.

- 2002 – 2005 Member of the Board of Directors for the Association of Mathematics Teachers of New York State, College Representative. This is an elected position for three years.
- 2002 – 2005 Member of the Endowment and Award Committee for the School, Science, and Mathematics Association, a national organization with a focus on the integration of mathematics and science.
- 2002 – 2004 Member of the SUNY-wide Provost Task Force on Mathematics Education.
- 2002 Member of sub-committee of the Education Council on Assessment. We organized an event related to assessment and standardized testing attracting professionals from the region.
- 2002 Invited to participate in a two-day New York State Mathematics Education Summit organized by the State Education Department.
- 2001 – 2003 Member of the NCATE sub-committee on Assessment Systems for the Professional Education Unit, co-writer of the Assessment Plan, and Liaison to the Standard 3 Committee.
- 2001 – 2003 Work related to NCATE accreditation. Wrote a program review of a graduate program in the Department of Elementary Education at SUNY New Paltz and wrote a pre-condition on institutional assessment for the School of Education at SUNY New Paltz. Attended an NCATE orientation conference in August 2001 in Washington, DC.
- 2001 – 2002 Member of the Task Force for setting Technology Standards for Teachers, Dutchess BOCES, Poughkeepsie, NY.
- 2001 – present Reviewer of manuscripts for Key-Curriculum Press, College Division.
- 2001 Grant Reviewer for the Goals 2000 Strategy 2 Grant at the Mid-Hudson regional Support Center of Orange/Ulster Board of Cooperative Educational Services, Monroe, NY.
- 2000 Reviewed a manuscript of Dr. Pearl Solomon, *The Math we Need to 'Know' and 'Do.'*, published by Corwin Press, 2001. My contributions were acknowledged in the preface. I am also quoted on the back-cover of the book.
- 1999 – 2001 Co-chair of the department professional semester student teaching mini-conference committee. Developed one-day conferences for all student teachers in the department each semester.
- 1999 – 2001 Elected member to the board of directors of the Ten County Mathematics Education Association, New York State. Served as program co-chair.
- 1999 – 2002 Wrote programs of the Department of Elementary Education for re-registration with the New York State Department of Education, in particular the Environmental Education specialization for graduate students and the graduate program Masters in Science for Teachers, geared toward students who do not have an undergraduate degree in education.
- 1999 – 2000 Wrote two new 6-credit courses connecting mathematics, science and technology; one at the graduate and one at the undergraduate level; these courses have been approved by faculty governance



- 1999 – 2008 Director of New York State K-8 Mathematics Mentor Network, a formerly DDE Title IIA Higher Education funded project and currently funded under the Leave No Child Behind, Title IIA Higher Education funding.
- 1998 – 2002 Member of the statewide Mathematics, Science, and Technology Network, State Education Department, Albany, NY.
- 1998 – 2008 Advisement of approximately 50 graduate students. Advisor and coordinator of the Math, Science, and Technology and Environmental/Outdoor Education specializations in the MS-Ed program in Elementary Education.
- 1998 – 2008 Voting member of the following committees: departmental committee of the whole; departmental and interdepartmental search committees; departmental professional semester student teaching mini-conference committee; department committee on tenure and reappointment; the dean's school of education advisory committee on diversity; the dean's Excellence in Teaching Award committee; Education Council of the School of Education (a policy setting council); workload committee (sub-committee of Education Council); campus-wide organization committee (worked on revising the by-laws of faculty governance); campus-wide technology committee, campus-wide Student Computer Access Program committee; Institutional Review Board.  
Chair of the following committees: departmental search committees; departmental committee for tenure and reappointment; departmental committee for promotion and discretionary salary increase.
- 1995 – present Editor for Secondary Mathematics Exemplars.
- 1998 – 2000 Member of the Ulster Board of Cooperative Educational Services distance learning action task force, New Paltz, NY; advised on issues of curriculum and pedagogy in distance learning.
- 1998 – 2000 Member of the Highland Central School District professional development plan team, Highland, NY, advised on issues of long-term professional development planning for the district.
- 1997 – 1999 Member of the Task Force for Critical Communication, National Council of Teachers of Mathematics, Reston, VA. Co-wrote several informational pieces related to calculators and basic facts, published by the NCTM as *Straight Talk*, available on the NCTM website.

### Memberships

National Council of Teachers of Mathematics (Communication Task Force 1997-1999; Editor Investigations Department Volume 12 and 13)  
 School Science and Mathematics Association (Board of Directors 2006-2009, Chair Nominations and Elections Committee 2006-2009, member Endowment Committee 2003-2006)  
 Association of Mathematics Teacher Educators (Liaison for the Elementary Mathematics Specialist Project, 2011 – present)

Association of Mathematics Teachers of New England (Member of Program Committee 2011-2012)

Rhode Island Mathematics Teachers Association (Director-at-Large, Board of Directors, 2010 – present)

### Courses Taught

Middle School:

Grades 7-9 mathematics, the Netherlands

High School:

From General Mathematics to AP-Calculus (AB and BC).

Chemistry

Physics.

University:

SUNY New Paltz:

College Algebra

Introduction to Modern Mathematics

Advanced Educational Technology (graduate)

Teaching Mathematics in the Elementary School

Student Teaching Supervision and Field Work Supervision

Connecting Mathematics, Science, and Technology in the Elementary School

(undergraduate and graduate initial certification programs)

Workshop in the Teaching of Mathematics (graduate)

Action Research I and II (graduate)

New York University:

Assessment and Curriculum in Secondary Mathematics (graduate)

University of Rhode Island:

EDC 430 Methods and Materials of Secondary Education: Mathematics

EDC 431 Clinical Experiences in Secondary Teaching III

EDC 371 Educational Measurement

EDC 331 Clinical Experiences in Secondary Teaching I

EDC 332 Clinical Experiences in Secondary Teaching II

EDC 484 Student Teaching (supervision)

EDC 485 Seminar in Student Teaching

EDC 520 The Teaching of Mathematics (graduate)

MTH 391 Problems in Mathematics