JAMES MINOGUE

North Carolina State University Department of Elementary Education Campus Box 7801 Raleigh, NC 27695 james_minogue@ncsu.edu 919.513.3317

EDUCATION

North Carolina State University Ph.D. Science Education Dissertation: Investigating the Impact of Touch on Students' Understandings of the Cell Chairperson: Dr. M. Gail Jones	1999 - 2005
East Stroudsburg University of Pennsylvania East Stroudsburg, PA 18301 M.Ed. Science Education Certification in Secondary Education Science	1994 - 1997
B.S. Dual Degree Biology and Marine Science	1990 - 1994
K-12 TEACHING EXPERIENCE Durham Public Schools- Durham, NC Lowe's Grove Middle School Carrington Middle School	2000 - 2003 1996 - 2000
St. Mary's County Public Schools- St. Mary's County, MD Leonardtown High School	1995-1996
HIGHER EDUCATION TEACHING EXPERIENCE	
North Carolina State University	

North Carolina State University

Instructor of ELM 420 a junior-level science teaching methods/practicum course	Fall 2007-Present
Instructor of ELM-400 a senior-level elementary instructional design seminar	Fall 2010-Present
Instructor of ELM-573 a graduate-level initial licensure elementary science teaching methods course	Summer 2010
Instructor of MST-594T an advanced graduate-level elementary science teaching methods course	Spring 2008

The College of New Jersey

Instructor of MST 202 an undergraduate science teaching Fall 2005-Spring 2007 methods/practicum course

Instructor of EDUC 501- a graduate course that explores Summer 2006 the teaching profession

North Carolina State University

Co-instructor of EMS 5017794- an on-line graduate Fall 2004 science education research course

Instructor of ECI496-an introductory educational Summer 2004 psychology course for alternative licensure teacher candidates

Co-instructor of EMS 475-methods of teaching science for Fall 2003 secondary science teacher interns

NCTeach Program, University of North Carolina at Chapel Hill

Master Teacher for a secondary science teaching preparatory Summer 2002 program for lateral entry teachers

INSTRUCTIONAL SUPERVISION

North Carolina State University

Supervisor of Elementary Education Teacher Candidates Fall 2007- Spring 2008

The College of New Jersey

Supervisor of Elementary Education Teacher Candidates Fall 2005- Spring 2007

Durham Public Schools

Mentor of an *Initially Licensed Teacher* of science 2002-2003

DOCTORAL SUPERVISION

Committee Membership

Lauren Madden, Science Education Completed Spring 2011

Examining elementary teachers' identities through analysis of student science notebooks.

Marta Klesath, Science Education Completed Fall 2011

Exploring the Viability and Perceived Pedagogical Value of the Virtual Interactive Biology Experience (VIBE) Assignment Format in Higher Education

Life Science Courses.

Matthew Peterson, Design Completed Fall 2011

Comprehension with Instructional Media for Middle School Science: Holistic Performative Design Strategy and Cognitive Load.

John Bedward, Science Education Anticipated Spring 2012 Anticipated Spring 2013 Iris Wagstaff, Educational Leadership Takeisha Ford, Educational Leadership Anticipated Spring 2013

PUBLICATIONS

- Cook,M., Annetta, L., Dickerson, D., & **Minogue, J.** (2011). In-Service teachers' perceptions of online learning environments. *Quarterly Review of Distance Education: Research That Guides Practice*, 12, 73-80.
- Annetta, L., **Minogue, J.,** Cook, M., Shymansky, J., & Thurmond (2011). Rural elementary school teacher attitudes toward varying science teacher professional development activities at a distance. In C.L. Fund & W.Y. Yip (Ed). *Evidence-Based Education*. New York: Nova Science.
- **Minogue, J.** (2010). What is the teacher doing? What are the students doing? An application of the Draw-a-Science-Teacher-Test. *Journal of Science Teacher Education*, 21, 767-781.
- **Minogue, J.,** Madden, L., Bedward, J., Wiebe, E., & Carter, M. (2010). The cross-case analyses of elementary students' engagement in the strands of science proficiency. *Journal of Science Teacher Education*, 21, 559-587.
- **Minogue, J.** Wiebe, E., Madden, L., Bedward, J. & Carter, M. (2010). The intersection of science notebooks, graphics, and inquiry. *Science and Children*, 48(3), 52-55.
- Wiebe, E. N., **Minogue, J.**, Jones, M.G., Cowley, J. & Krebs, D. (2009). Haptic feedback and students' learning about levers: Unraveling the effect of simulated touch. *Computers and Education*, 53, 667-676.
- **Minogue, J.**, & Jones, M.G. (2009). Measuring the impact of haptic feedback using the SOLO taxonomy. *International Journal of Science Education*. *31*, 1359-1378.
- Annetta, L., **Minogue, J**., Holmes, S., & Cheng, M.T. (2009). Investigating the effect of video games on high school biology students' learning and engagement. *Computers and Education*, *53*, 74-85.
- Annetta, L.A., **Minogue, J.**, Holmes, S., Folta, E., Cheng, M.T., & Klesath, M. (2009). Using case studies as the narrative to game design and development. In D. Gibson and Y.K. Baek (Eds.). *Digital simulations for improving education: learning through artificial teaching environments*. Hershey, PA: IGI Global.
- Cowley, J., Wiebe, E.N., **Minogue**, **J**., Jones, M.G., & Krebs, D. (2008). Haptic feedback in the instructional environment and its relationship to visual attention and learning. *Human Factors and Ergonomics Society Annual Meeting Proceedings*, 52 (8), 638-642.
- **Minogue, J.** (2008). Getting a "feel" for serious games. In L.A. Annetta (Ed.), *Serious educational games* (pps. 73-81). Rotterdam, The Netherlands: Sense Publishing.
- Minogue, J. (2008). A lemon of a lesson. Science and Children, 45(6), 25-27.

- Jones, M. G., Taylor, A., **Minogue, J.**, Broadwell, B., Wiebe, E., & Carter, G. (2007). Understanding scale: Powers of ten. *The Journal of Science Education and Technology*, *16* (2), 191-202.
- **Minogue, J.** & Jones, M.G. (2006). Haptics in education: Exploring an untapped sensory modality. *Review of Educational Research*, 76 (3), 317-348.
- **Minogue, J.**, Jones, M.G., Broadwell, B., & Oppewal, T. (2006). Exploring cells from the inside out: New tools for the classroom. *Science Scope*, 29, 28-32.
- **Minogue, J.**, Jones., M.G., Broadwell, B., & Oppewal, T. (2006). The impact of haptic augmentation on middle school students' conceptions of the animal cell. *Virtual Reality*, *10*, 293-305.
- **Minogue, J.** & Guttensberger, T. (2006). Paper towers: Building students' understandings of technological design. *Science Scope, 30 (6),* 18-20.
- Jones, M.G., **Minogue, J.**, Oppewal, T, Cook, M. & Broadwell, B. (2006). Visualizing without vision at the microscale: Students' with visual impairment explore cells with touch. *The Journal of Science Education and Technology*, *15*, 345-351.
- Jones, M.G., **Minogue, J.**, Tretter, T., Negishi, A. & Taylor, R. (2006). Haptic augmentation of science instruction: Does touch matter? *Science Education*, 90, 111-123.
- Tretter, T. R., Jones, M. G., Andre, T., Negishi, A., & **Minogue**, **J**. (2006). Conceptual boundaries and distances: Students' and adults' concepts of the scale of scientific phenomena. *Journal of Research in Science Teaching*, 43 (3), 282-319.
- Tretter, T.R., Jones, M.G., & **Minogue, J.** (2006). Accuracy of scale conceptions in science: Mental orders of spatial magnitude. *Journal of Research in Science Teaching*, 43 (10), 345-351.
- Jones, M.G., Broadwell, B., Falvo, M., **Minogue, J.**, & Oppewal, T. (2005). It's a small world after all. *Science and Children*, *43*, 44-46.
- Annetta, L.A. & **Minogue**, **J.** (2004). The Effect teaching experience has on perceived Effectiveness of interactive television as a distance education model for elementary science teachers' professional development: Another digital divide? *Journal of Science Education and Technology*, *13*, 485-494.

MANUSCRIPTS UNDER REVIEW

Wiebe, E. N., Carter, M., **Minogue, J.,** Madden, L. & Bedward, J. C. Investigating Elementary Science Learning Opportunities Through the Lens of Science Notebooks. *International Journal Science and Mathematics Education*. (submitted for review).

Annetta, L.A., Lamb, R., **Minogue, J.,** Holmes, S.Y., Folta, E., & Cheng, R. Safe science classrooms: Teacher training through serious educational games. *International Journal of Game-Based Learning*. (submitted for review).

PRESENTATIONS

- **Minogue, J.** & Bedward, J. (January, 2012). *Combating a reasoning thin curriculum: Preservice elementary science teachers attention to student thinking*. Presented at the Association of Science Teacher Education (ASTE) International Conference, Clearwater, FL.
- **James Minogue**, Bradford Mott, John Nietfeld, Hiller Spires, Marc Russo, Robert Taylor, & James Lester. (January, 2012). *Intelligent game-based learning environments for upper elementary science education*. Presented at the Association of Science Teacher Education (ASTE) International Conference, Clearwater, FL.
- **Minogue, J.,** Bedward, J., Wiebe, E., Madden, L., Carter, M., & King, Z. (April, 2011). *An exploration of upper elementary students' storyboarded conceptions of magnetism*. Presented at the National Association of Research in Science Teaching (NARST) Annual International Conference, Orlando, FL.
- Minogue, J., Mott, B., Neitfeld, J., Spires, H., Lester, J., Russo, M., & Rowe, J. (April, 2011). *Crystal Island-Uncharted Discovery: An Intelligent game-based learning environment*. Presented at the National Association of Research in Science Teaching (NARST) Annual International Conference, Orlando, FL.
- Madden, L., Wiebe, E., Bedward, J., **Minogue, J**., & Carter, M. (April, 2011). *Teacher identities of three second-grade teachers: A case study from the students' perspective*. Presented at American Educational Research Association (AERA) Annual Meeting, New Orleans, LA.
- Annetta, L. & **Minogue**, **J.** (March, 2011). *Science teacher training through serious educational games*. Presented at Society for Information Technology & Teacher education (SITE) International Conference, Nashville, TN.
- Madden, L., Wiebe, E.N., Bedward, J.C., **Minogue, J**., & Carter, M.C. (January, 2011). *Student perspectives on teacher identity: A Case study of three second grade teachers.* Presented at the Annual Meeting of the Association of Science Teacher Education (ASTE), Minneapolis, MN.
- Madden, L., Bedward, J., Wiebe, E., Carter, M., & **Minogue**, **J.** (November, 2010). *GEES: Online PD tools for enhancing elementary science with graphics*. Presented at the North Carolina Science Teacher Association (NCSTA) meeting, Greensboro, NC.
- Bedward, J., Wiebe, E., Madden, L., **Minogue**, J., & Carter, M. (June, 2010). *Modeling in support of the engineering design process: Experiences in the elementary classroom*. Presented at the ASEE Annual Meeting, Louisville, KY.

- Wiebe, E. N., Bedward, J., Carter, M., Madden, L., & **Minogue, J.** (June, 2010). *Abstraction and re-representation in visualizations: Understanding where the learning occurs.* Presented at the ICLS Biannual Meeting. Chicago, IL.
- **Minogue, J.,** Mott, B., Neitfeld, J., Spires, H., Lester, J., & Russo, M. (March, 2010). *Tracing the development of Crystal Island: Uncharted Discovery: An intelligent game-based learning environment.* Presented at the National Association of Research in Science Teaching (NARST) Annual International Conference, Philadelphia, PA.
- Bedward, J., **Minogue, J.,** Wiebe, E., Madden, L., & Carter, M. (March, 2010). *Reasoning about invisible forces: The use of graphics and written text to reveal elementary student sense making*. Presented at the National Association of Research in Science Teaching (NARST) Annual International Conference, Philadelphia, PA.
- Wiebe, E., **Minogue**, **J**., Carter, M., Bedward, J., & Madden, L. (March, 2010). *Administrative symposium: Representational Reasoning in the Teaching and Learning of Science*. Presented at the National Association of Research in Science Teaching (NARST) Annual International Conference, Philadelphia, PA.
- Madden, L., Wiebe, E., Bedward, J., **Minogue, J**., & Carter, M. (March, 2010). *Examining elementary science teacher identity through science notebooks: A case study of three exemplar teachers*. Presented at the National Association of Research in Science Teaching (NARST) Annual International Conference, Philadelphia, PA.
- **Minogue, J.,** Bedward, J., Wiebe, E., Madden, L., & Carter, M. (January, 2010). *Concrete experiences and abstract thought: The importance of student-generated graphics*. Presented at the Association for Science Teacher Educators (ASTE) International Conference, Sacramento, CA.
- **Minogue, J.** (April, 2009). Language mediated haptic cognition: Exploring the role of grounding terms. Presented at the National Research in Science Teaching (NARST) International Conference, Garden Grove, CA.
- **Minogue, J.** (April, 2009). *Reflective practices and professional development through Japanese lesson study*. Presented at the National Research in Science Teaching (NARST) International Conference, Garden Grove, CA.
- Wiebe, E., Madden, L., Bedward, J., **Minogue, J.** & Carter, M. (April, 2009). *Examining science inquiry practices in the elementary classroom through science notebooks*. Presented at the National Research in Science Teaching (NARST) International Conference, Garden Grove, CA.
- Cook, M., Annetta, L., Dickerson, D., & **Minogue, J.** (April, 2009). *Students' perceptions of online learning environments*. Presented at the National Research in Science Teaching (NARST) International Conference, Garden Grove, CA.

- Wiebe, E., Bedward, J., Madden, L., Carter, M. & **Minogue**, **J.** (April, 2009). *Graphic representations in science notebooks: A vehicle for understanding science inquiry in the elementary classroom*. Presented at American Educational Research Association (AERA) Annual Meeting, San Diego, CA.
- Minogue, J., Madden, L. P., Bedward, J. C., Wiebe, E. N., & Carter, M. (January, 2009). *The cross-case analyses of elementary students' engagement in the strands of science proficiency*. Presented at the Association for Science Teacher Education (ASTE) International Conference, Hartford, CT.
- **Minogue, J.** & Annetta, L. (January, 2009). *Getting a "feel" for serious games*. Presented at the Association for Science Teacher Education (ASTE) International Conference, Hartford, CT.
- Wiebe, E. N., **Minogue, J.,** Bedward, J. C., Madden, L. P., & Carter, M. (October, 2008). *Graphic-enhanced elementary science*. Presented at the National Science Teachers Association (NSTA) Area Conference, Charlotte, NC.
- Annetta, L., & **Minogue, J.** (October, 2008). *Engaging fifth grade students through haptically enhanced video games*. Presented at the National Science Teachers Association (NSTA) Area Conference, Charlotte, NC.
- Cook, M., Annetta, L.A., Dickerson, D.L., & **Minogue, J.** (October, 2008). *In-service teachers' perceptions of online learning experiences*. Presented at the Annual Meeting of the Association for Science Teacher Education Southeastern (SASTE) Region, Columbia, SC.
- Madden, L. P., Wiebe, E. N., Bedward, J. C., **Minogue, J.,** & Carter, M. (October, 2008). *Creating classroom observation protocols for elementary schools using graphically-enhanced science notebooks*. Presented at the Annual Meeting of the Association for Science Teacher Education Southeastern (SASTE) Region, Columbia, SC.
- Cowley, J., Wiebe, E. N., **Minogue, J.**, Jones, M. G., & Krebs, D. (September, 2008). *Haptic feedback in the instructional environment and its relationship to visual attention and learning*. Presented at the Human Factors and Ergonomics Society (HFES) Annual Meeting, New York, NY.
- Wiebe, E. N., Madden, L. P., Bedward, J. C., Carter, M., & **Minogue**, **J.** (June, 2008). *Improving early spatial intelligence through science notebook graphic production: Effective elementary classroom practices*. Presented at the Spatial Intelligence Symposium, Evanston, IL.
- Annetta, L.A., Holmes, S. Y., **Minogue, J.,** Cheng, M.T., Sears, M. & Allen, K. (April, 2008). *Learning science through videogames*. Presented at the National Research in Science Teaching (NARST) International Conference, Baltimore, MD.
- Wiebe, E.N., Jones, M.G., **Minogue, J.,** Cowley, J., & Krebs, D. (April, 2008). *Unraveling the influence of haptic feedback on students' learning about levers*. Presented at the National Research in Science Teaching (NARST) International Conference, Baltimore, MD.

- Annetta, L.A., Bean, S., Talaiver, M., Gibson, D. **Minogue, J.**, Tagliarini, G., Michelson, K. (March 5, 2008). *Creating video games and simulations for science and mathematics: Perspectives from ITEST projects.* Presented at the Society for Information Technology and Teacher Education International Conference (SITE), Las Vegas, NV
- **Minogue, J.** (January, 2008) What is the teacher Doing? What are the students doing? Presented at the Association for Science Teacher Education (ASTE) International Conference, St. Louis, MO.
- Annetta, L.A., **Minogue, J.,** & Hudnutt, B.A. (September, 2007). *Scientific & mathematical knowledge acquisition: Professional development in interactive learning environments*. Presented at the NASA ModSim World Conference, Virginia Beach, VA.
- **Minogue, J.,** Jones, M.G., Broadwell, B., & Oppewal, T. (April, 2007). *Haptic feedback and the structure of observed learning outcomes*. Presented at the National Association for Research in Science Teaching (NARST) International, New Orleans, LA.
- Jones, M. G., Taylor, A., **Minogue, J.**, Broadwell, B., Wiebe, E., & Carter, G. (April, 2007). *The efficacy of 'Powers of Ten': Conceptions of size and scale*. Presented at the National Association for Research in Science Teaching (NARST) Annual Conference, New Orleans, LA.
- **Minogue, J.,** Jones, M.G. (January, 2007). *The potential impact of haptic technology on science instruction*. Presented at the Association for Science Teacher Education (ASTE) International Conference, Clearwater Beach, FL.
- **Minogue, J.,** Jones, M.G., Broadwell, B., & Oppewal, T. (April, 2006). *The impact of haptic feedback on students' understandings of the animal cell*. Presented at the National Association for Research in Science Teaching (NARST) International Conference, San Francisco, CA.
- Jones, M.G., **Minogue**, **J.**, Broadwell, B., Patrick, M., & Oppewal, T. (April, 2006). *Visualizing without vision at the microscale: Students with visual impairment explore cells with touch*. Presented at the National Association for Research in Science Teaching (NARST) International Conference, San Francisco, CA.
- Tretter, T., Jones, M.G., & **Minogue, J.** (April, 2006). *Conceptions of spatial scale: Leaping into other worlds*. Presented at the American Educational Research Association (AERA) Annual Meeting, San Francisco, CA.
- Tretter, T., Jones, M.G., & **Minogue, J.** (April, 2006). *Navigating across spatial scales in science: Different worlds, unifying concept.* Presented at the National Association for Research in Science Teaching (NARST) International Conference, San Francisco, CA.
- **Minogue, J.**, Jones, M.G., Kubasko, D., Tretter, T., & Dotger, S. (April, 2005). *Nanoscience education: Teaching tools for the exploration of this emerging field.* Presented at the National Science Teachers Association (NSTA) conference, Dallas, TX.

- **Minogue, J.** & Jones. M.G. (April, 2005). *Virtual hands-on experiences: A study of haptic feedback devices and science learning*. Presented at the National Association of Research in Science Teaching (NARST) International Conference, Dallas, TX.
- **Minogue, J.** & Jones. M.G. (April, 2005). *Investigating the efficacy of haptic science instruction*. Presented at the American Educational Research Association (AERA) conference, Montreal, Canada.
- Tretter, T. R., Jones, M. G., Andre, T., Negishi, A., & **Minogue, J.** (April, 2005). *Conceptual distances and conceptual boundaries: Students' and adults' conceptualizations of spatial scale in science*. Presented at the American Educational Research Association (AERA) Annual Meeting, Montreal, Canada.
- Tretter, T. R., Jones, M. G., Andre, T., Negishi, A., & **Minogue, J.** (April, 2005). *Scale of scientific phenomena: Demarcation of distinct spatial scales in experts' and students' cognitive frameworks*. Presented at the National Association for Research in Science Teaching (NARST) International Conference, Dallas, TX.
- **Minogue, J.** & Jones, M.G. (January, 2005). *Do hands-on experiences make a difference?* A study of haptic feedback devices and science learning. Presented at the Association for the Education of Teachers in Science (AETS) International Conference, Colorado Springs, CO.
- **Minogue, J.**, Jones, M.G., Dotger, S., Falvo, M., & Kubasko, D. (November, 2004). *It's a small, small world: Teaching about nanotechnology*. Presentation at the North Carolina Science Teachers Association (NCSTA) conference, Greensboro, NC.
- **Minogue, J.** & Jones, M.G. (October, 2004). *Touching cells in a virtual environment: Teaching with haptics*. Presentation at EDTECH conference, NCSU, Raleigh, NC.
- Tretter, T., **Minogue, J.** & Jones, M.G. (Spring, 2004). *How small is small? Students' conceptions of scale*. Paper presented at the National Association of Research in Science Teaching (NARST) conference, Vancouver, British Columbia, Canada.
- Tretter, T., **Minogue, J.** & Jones, M.G. (Spring, 2004). *Conceptual ecology of scale*. Paper presented at the American Educational Research Association (AERA) conference, San Diego, CA.
- Jones, M.G., **Minogue, J.**, Kubasko, D., & Tretter T. (Spring, 2004). *Scale as a unifying theme: Size matters*. Paper presented at the National Science Teachers Association (NSTA) conference, Atlanta, GA.

GRANT ACTIVITIES

External Funding

Co-PI on Investigating An Intelligent Cyberlearning System for Fall 2011-2013
Interactive Museum-based Sustainability Modeling
[DRL-ISE] (1114655) \$374,000
James Lester PI

Co-PI on R&D: Developing Science Problem-Solving Skills and Engagement Through Intelligent Game-Based Learning Environments [NSF-DR K12] (0822200) \$2,500,000 James Lester PI

Co-PI on Multimodal Science: Supporting Elementary
Science Education through Graphic-Enhanced
Communication [NSF-DR K12] (0733217) \$350,000
Eric Wiebe PI

Co-PI on STIMULATE: Science Training Immersive Spring 2008-2010 Modules for University Learning Around Teacher Education [NSF-CCLI] (0737206) \$ 200,000 Len Annetta PI

Internal Funding

North Carolina State University Educational Technology Fund (ETF) Fall 2008 Advancing Kit-Based Science Instruction II (\$2,200) Sarah Carrier Co-PI

North Carolina State University Educational Technology Fund (ETF)

Advancing Kit-Based Science Instruction (\$9,200)

Sarah Carrier Co-PI

Unfunded

PI on Haptically Guided Learning: Considering the Role of
Kinesthetic Feedback on Novices' Cognition
[NSF-Perception, Action, & Cognition] \$328, 607 for 2 years
Steve Amendum & Rob St. Amant Co-PIs

Co-PI on Project HELP: Haptically Enhanced Literacy Program
[DoE-IES, Education Technology Goal 2] \$446,528 for 3 years
PI Steve Amendum & Rob St. Amant Co-PI

November 2007

Lead PI on unfunded research project
ASPECT: Advancing Science Performance
with Emerging Computer Technologies
U.S. DOE-Institute of Educational Sciences (IES)

3 year \$1,500,000 Development Project

Dr. James Shymansky & Dr. Len Annetta Co-PIs

SERVICE ACTIVITIES

Professional Organizations

Association of Science Teacher Education (ASTE)

Member at Large-Publication Committee

Spring 2011-2014

Journal of Science Education and Technology (JSOT)

Summer 2010-Present
Editorial Board Member

Journal of Research in Science Teaching (JRST)

Publications Advisory Committee

Spring 2010-2013

International Journal of Science Education (IJSE) Spring 2009-Present

Manuscript Review Board

Computers and Education (CaE) Fall 2009-Present

Manuscript Review Board

Journal of Research in Science Teaching (JRST) Fall 2008-Present

Manuscript Review Board

Journal of Research in Science Teaching (JRST) Spring 2007-2010

Outstanding Paper Award Committee

Journal of Science Education and Technology (JSOT) Spring 2007-2010

Manuscript Review Board

International Journal of Science and Mathematics Education (IJSME) Fall 2007-Present

Manuscript Review Board

Electronic Journal of Science Education (EJSE) Fall 2007-Present

Manuscript Review Board

American Educational Research Association (AERA) Fall 2007

Division C, Section 7 Proposal reviewer for the

International Conference

National Association of Research in Science Teaching (NARST) Fall 2006-Present

Educational Technology; Science Teaching- Primary School Strand International Conference proposal reviewer

Association of Science Teacher Education (ASTE) Educational Technology Thread Coordinator for the 2007 International Conference	Summer 2006
North Carolina State University	
Member of the College of Education's Committee on Professional Education	Fall 2011-Present
Member of the College of Education's <i>Student Grievance Committee</i>	Fall 2011-Present
Member of the College of Education's Awards Committee	Fall 2011-Present
Member of the College of Education's Faculty Mediation Panel	Fall 2010-Present
Member of the College of Education's Research Committee	Fall 2007- Spring 2010
Member of the College of Education's <i>Peer Teaching Evaluation Committee</i>	Spring 2008
The College of New Jersey	
Member of the School of Education's Travel Committee	Fall 2006- Spring 2007
Member of the collegewide Information Technology Planning Council	Fall 2005- Spring 2007
Faculty Advsior for environmental student organization Water Watch	Spring 2006-Spring 2007
Durham Public School's Science Teacher Leadership Fellows Assisted in the planning & delivery of inservice sessions for practicing middle school science teachers.	Fall 2003-Spring 2005
Served on Durham Public School's Steering Committee for Inquir Based Science Education	y Fall 2000
OTHER RELATED ACTIVITIES	

North Carolina State University
MAT in Elementary Education Program Coordinator
Spring 2009-Fall 2010

SensAble Technologies Developer Challenge
Co-recipient of Honorable Mention awarded
at SIGGRAPH 2005 for the HapticCell educational software

North Carolina State University

Graduate Research Assistant on two NSF sponsored Fall 2003-Spring 2005 grants: Investigating Viruses with Touch: Nanotechnology and Science Inquiry & Scale and Scaling Across the Content Domains- responsibilities include research planning and data collection, organization, analysis, and dissemination

Participated in the *Center for Inquiry Based Learning (CIBL)* institute at Duke University, Durham, NC

Summer 1999

PROFESSIONAL ORGANIZATIONS

Member, American Educational Research Association (AERA), 2002-Present Member, Association of Science Teacher Education (ASTE), 2004-Present

Member, National Association of Research in Science Teaching (NARST), 2002-Present

Member, National Science Teachers Association (NSTA), 2002-Present