

Nicole M. McNeil

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Notre Dame, IN 46556
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EDUCATION

- 2005-2006 Postdoctoral Research Associate in Psychology
Yale University
- 2005 Ph.D. in Psychology, Distributed Minor in Statistics and Computer Sciences
University of Wisconsin-Madison
- 1999 B.S. in Psychology, Minor in Chemistry
Carnegie Mellon University

PROFESSIONAL POSITIONS

- 2006- Assistant Professor, Department of Psychology, University of Notre Dame
- 2005-2006 Project Director, PACE Center, Yale University
- 2003-2005 Project Assistant, Wisconsin Center for Education Research, University of Wisconsin
- 1999-2003 Research Assistant, Department of Psychology, University of Wisconsin
- 1999 Research Assistant, Department of Psychology, Carnegie Mellon
- 1998 Undergraduate Intern, Western Psychiatric Institute and Clinic, Pittsburgh, PA

SCHOLARSHIPS AND FELLOWSHIPS

- 2001-2002 Marian Schwartz Fellowship in Experimental Psychology, University of Wisconsin
- 1999-2000 Henry Vilas Graduate Fellowship, University of Wisconsin [stipend, tuition, and fees]
- 1997-1999 Alumni Memorial Scholarship, Carnegie Mellon University
- 1997-1998 National Institute of Mental Health (NIMH) Undergraduate Fellowship

HONORS AND AWARDS

- 2008 2007 Presidential Early Career Award for Scientists and Engineers (PECASE)
- 2004-2005 American Psychological Association (APA) Dissertation Award [\$3000]
- 2003-2004 American Psychological Foundation E. M. Koppitz Graduate Travel Stipend [\$4000]
- 2001-2004 Graduate Student Travel Awards, University of Wisconsin [6 totaling \$2200]
- 1999 Phi Beta Kappa Honors Society, Upsilon of Pennsylvania
- 1999 Phi Kappa Phi Honors Society, Carnegie Mellon Chapter
- 1999 Phi Kappa Phi Research Award, First Place, Carnegie Mellon [\$250]
- 1998 Student Travel Award, Symposium for Research on Child Language Disorders [\$500]
- 1998 Sigma Xi Research Award, First Place, Carnegie Mellon [\$500]
- 1998 Mortar Board National Honors Society, Carnegie Mellon
- 1997 National Society of Collegiate Scholars, Carnegie Mellon

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

American Educational Research Association
 Association for Psychological Science
 Cognitive Development Society
 Cognitive Science Society
 Society for Research in Child Development

BOOKS AND MONOGRAPHS

NA

REFEREED JOURNAL ARTICLES

^P indicates postdoc author; ^G indicates graduate student author; ^U indicates undergraduate student author

McNeil, N. M., ^UFyfe, E. R., ^GPetersen, L. A., Dunwiddie, A. E., & Brletic-Shipley, H. (in press). Benefits of practicing $4 = 2 + 2$: Nontraditional problem formats facilitate children's understanding of mathematical equivalence. *Child Development*.

McNeil, N. M., ^GFuhs, M. W., ^GKeultjes, M. C., ^UGibson, M. H. (in press). Influences of problem format and SES on preschoolers' understanding of approximate addition. *Cognitive Development*

McNeil, N. M., Rittle-Johnson, B., Hattikudur, S., & ^GPetersen, L. A. (in press). Continuity in representation between children and adults: Arithmetic knowledge hinders undergraduates' algebraic problem solving. *Journal of Cognition and Development*.

McNeil, N. M., Weinberg, A., Stephens, A. C., Hattikudur, S., Asquith, P., Knuth, E. J., & Alibali, M. W. (2010). A is for apple: Mnemonic symbols hinder students' interpretation of algebraic expressions. *Journal of Educational Psychology*, *102*, 625-634.

McNeil, N. M., & Uttal, D. H. (2009). Rethinking the use of concrete materials in learning: Perspectives from development and education. *Child Development Perspectives*, *3*, 137-139.

^{1G}Brown, M. C., ¹**McNeil**, N. M., & Glenberg, A. M. (2009). Using concreteness in education: Real problems, potential solutions. *Child Development Perspectives*, *3*, 160-164.
¹contributed equally, so listed alphabetically

Haefel, G. J., Thiessen, E. D., Campbell, M. W., Kaschak, M. P., & **McNeil**, N. M. (2009). Theory, not cultural context, will advance psychology. *American Psychologist*, *64*, 570-571.

McNeil, N. M., Uttal, D. H., Jarvin, L., & Sternberg, R. J. (2009). Should you show me the money? Concrete objects both hurt and help performance on mathematics problems. *Learning and Instruction*, *19*, 171-184.

McNeil, N. M. (2008). Limitations to teaching children $2 + 2 = 4$: Typical arithmetic problems can hinder learning of mathematical equivalence. *Child Development*, *79*, 1524-1537.

- Knuth, E. J., Alibali, M. W., Hattikudur, S., **McNeil**, N. M., & Stephens, A. C. (2008). The importance of equal sign understanding in the middle grades. *Mathematics Teaching in the Middle School*, *13*, 514-520.
- McNeil**, N. M. & Jarvin, L. (2007). When theories don't add up: Disentangling the manipulatives debate. *Theory Into Practice*, *46*, 309-316.
- McNeil**, N. M. (2007). U-shaped development in math: Seven year olds outperform nine year olds on mathematical equivalence problems. *Developmental Psychology*, *43*, 687-695.
- Alibali, M. W., Knuth, E. J., Hattikudur, S., **McNeil**, N. M., & Stephens, A. C. (2007). A longitudinal examination of middle school students' understanding of the equal sign and performance solving equivalent equations. *Mathematics Thinking and Learning*, *9*, 221-247.
- McNeil**, N. M., Grandau, L., Knuth, E. J., Alibali, M. W., Stephens, A. S., Hattikudur, S., & Krill, D. E. (2006). Middle-school students' understanding of the equal sign: The books they read can't help. *Cognition and Instruction*, *24*, 367-385.
- Knuth, E. J., Stephens, A. C., **McNeil**, N. M. & Alibali, M. W. (2006). Does understanding the equal sign matter? Evidence from solving equations. *Journal for Research in Mathematics Education*, *37*, 297-312.
- McNeil**, N. M., & Alibali, M. W. (2005b). Why won't you change your mind? Knowledge of operational patterns hinders learning and performance on equations. *Child Development*, *76*, 883-899.
- McNeil**, N. M., & Alibali, M. W. (2005a). Knowledge change as a function of mathematics experience: All contexts are not created equal. *Journal of Cognition and Development*, *6*, 385-206.
- Knuth, E. J., Alibali, M. W., **McNeil**, N. M., Weinberg, A., Stephens, A. C. (2005). Middle school students' understanding of core algebraic concepts: Equality and variable. *Zentralblatt für Didaktik der Mathematik / International Reviews on Mathematical Education*, *37*, 68-76.
- McNeil**, N. M., & Alibali, M. W. (2004). You'll see what you mean: Students encode equations based on their knowledge of arithmetic. *Cognitive Science*, *28*, 451-466.
- Evans, J. L., Alibali, M. W., & **McNeil**, N. M. (2001). Divergence of verbal expression and embodied knowledge: Evidence from speech and gesture in children with Specific Language Impairments. *Language and Cognitive Processes*, *16*, 309-331.
- McNeil**, N. M., & Alibali, M. W. (2000). Learning mathematics from procedural instruction: Goals influence learning from the outside in. *Journal of Educational Psychology*, *92*, 734-744.
- McNeil**, N. M., Alibali, M. W., & Evans, J. L. (2000). Role of gesture in children's language comprehension: Now they need it, now they don't. *Journal of Nonverbal Behavior*, *24*, 131-150.

REFEREED PUBLICATIONS IN PROCEEDINGS

- ^GPetersen, L. A., ^UHeil, J. K., **McNeil**, N. M., & Haeffel, G. J. (2010). Learning from errors in game-based versus formal mathematics contexts. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 2578-2582). Austin, TX: Cognitive Science Society.
- ^UCrooks, N. M., & **McNeil**, N. M. (2009). Increased practice with “set” problems hinders performance on the water jar task. In N. A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (pp. 643-648). Austin, TX: Cognitive Science Society.
- ^GKeultjes, M. C., ^UGibson, M. H., & **McNeil**, N. M. (2009). Children’s understanding of approximate arithmetic depends on problem format. In N. A. Taatgen & H. van Rijn (Eds.), *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (pp. 329-334). Austin, TX: Cognitive Science Society.
- ^GPetersen, L. A., & **McNeil**, N. M. (2008). Using perceptually rich objects to help children represent number: Established knowledge counts. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 1567-1572). Austin, TX: Cognitive Science Society.
- McNeil**, N. M. (2004a). Don’t teach me $2 + 2 = 4$: Knowledge of arithmetic operations hinders equation learning. In K. D. Forbus, D. Gentner, & R. Regier (Eds.), *Proceedings of the 26th Annual Conference of the Cognitive Science Society* (pp. 938-943). Mahwah, NJ: Lawrence Erlbaum Associates.
- McNeil**, N. M., Grandau, L., Stephens, A. C., Krill, D. E., Alibali, M. W., & Knuth, E. J. (2004). Middle-school students’ experience with the equal sign: *Saxon Math ≠ Connected Mathematics*. In D. McDougall (Ed.), *Proceedings of the XXVI Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Toronto, Canada* (Vol. 1, pp. 271-6). Columbus, OH: ERIC.
- McNeil**, N. M., & Alibali, M.W. (2002). A well-established schema can interfere with learning: The case of children’s typical addition schema. In C. D. Schunn & W. Gray (Eds.), *Proceedings of the 24th Annual Conference of the Cognitive Science Society* (pp. 661-6). Mahwah, NJ: Lawrence Erlbaum Associates.
- McNeil**, N. M., & Alibali, M. W. (2001). Gesture production is associated with task motivation. In C. Cavé, I. Guaitella, & S. Santi (Eds.), *Oralité et gestualité: Interactions et comportements multimodaux dans la communication* [Orality and gestuality: Multimodal interaction and behavior in communication]. *Actes du colloque* [Proceedings of the meeting of] *ORAGE 2001* (pp. 247-252) Paris, France: L’Harmattan.

Alibali, M. W., **McNeil**, N. M., & Perrott, M. A. (1998). What makes children change their minds? Changes in encoding lead to changes in strategy selection. In M. A. Gernsbacher & S. Derry (Eds.), *Proceedings of the 20th Annual Conference of the Cognitive Science Society* (pp. 36-41). Mahwah, NJ: Lawrence Erlbaum Associates.

UNREFEREED PUBLICATIONS

Gubbins, E. J., Housand, B., Oliver, M., Schader, R., de Wet C. F., Moon, T. R., Hertberg-Davis, H., Callahan, C. M., Brighton, C., Sternberg, R. J, Grigorenko, E., Jarvin, L., **McNeil**, N. M., Connolly, K. (2008). Unclogging the mathematics pipeline through access to algebraic understanding. Storrs, CT: National Research Center on the Gifted and Talented.

OTHER PUBLICATIONS

McNeil, N. M. (2004b). Test item file to accompany *Children's Thinking* 4th edition by R. S. Siegler & M. W. Alibali. Upper Saddle River, NJ: Prentice Hall.

MANUSCRIPTS UNDER REVIEW OR IN PREPARATION

Mainela-Arnold, E., Evans, J. L., Alibali, M. W., & **McNeil**, N. M. (under review). The role of speaker gesture on sentence comprehension by children with and without specific language impairments: Sometimes it helps, sometimes it hurts.

McNeil, N. M., & ^UFyfe, E. R. (under review). "Concreteness fading" promotes transfer of mathematical knowledge.

McNeil, N. M., ^PMatthews, P. G., ^GPetersen, L. A., Dunwiddie, A. E., Brletic-Shipley, H., & ^PChesney, D. L. (in preparation). Number sense facilitates children's understanding of mathematical equivalence.

^UFyfe, E. R., & **McNeil**, N. M. (in preparation). Benefits of "concreteness fading" for children with low knowledge of mathematical equivalence.

^GPetersen, L. A., & **McNeil**, N. M. (in preparation). Using perceptually rich objects to help children represent number: Established knowledge counts.

INVITED LECTURES AND ADDRESSES

2009 University of Wisconsin-Madison, IES Interdisciplinary Training Program Seminar Series
 2009 Indiana University, Symposium on Transfer of Learning
 2009 Indiana University, Dept. of Psychological and Brain Sciences, Cognitive Colloquium Series
 2009 Institute of Education Sciences, Fourth Annual IES Research Conference
 2009 Institute of Education Sciences, Meeting of the National Board of Education Sciences
 2008 Institute of Education Sciences, PECASE Colloquium
 2008 University of Chicago, Department of Psychology, Developmental Seminar Series
 2008 University of Portland, Symposium on Education
 2006 Michigan State University, School of Education
 2006 University of Notre Dame, Department of Psychology
 2006 University of Oregon, Department of Psychology

- 2006 University of Colorado, Institute of Cognitive Science
 2006 Colgate University, Department of Psychology
 2006 Boston College, Lynch School of Education
 2006 Oklahoma State University, Department of Psychology
 2006 University of Miami, Department of Psychology
 2006 Emory University, Department of Psychology
 2006 Florida State University, Department of Psychology
 2006 Wake Forest University, Department of Psychology
 2006 Syracuse University, Department of Psychology
 2006 University of Pittsburgh, Department of Psychology and LRDC
 2006 University of Illinois—Chicago, Department of Psychology
 2005 Yale University, Center for the Psychology of Abilities, Competencies, & Expertise
 2005 Texas Tech University, Human Development & Family Studies
 2005 Indiana University, School of Education
 2005 University of North Carolina—Chapel Hill, School of Education
 2005 University at Buffalo (SUNY), Department of Psychology
 2005 Northwestern University, School of Education and Social Policy
 2005 University of Missouri, Department of Psychology
 2005 Northwestern University, Department of Psychology
 2004 University of Iowa, Department of Psychology

CONFERENCE PRESENTATIONS

- McNeil**, N. M., Dunwiddie, A. E., ^GPetersen, L. A., ^UFyfe, E. R., & Brletic-Shipley, H. (2010, June). Arithmetic practice that promotes conceptual understanding and computational fluency: Year 3. Poster presented at the Annual Research Conference of the Institute of Education Sciences (IES), National Harbor, MD.
- ^UFyfe, E. R., & **McNeil**, N. M. (2009, October). Benefits of “concreteness fading” for children with low knowledge of mathematical equivalence. Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), San Antonio, TX.
- McNeil**, N. M., Dunwiddie, A. E., ^GPetersen, L. A., ^UFyfe, E. R., & Brletic-Shipley, H. (2009, June). Arithmetic practice that promotes conceptual understanding and computational fluency: Year 2. Poster presented at the Annual Research Conference of the Institute of Education Sciences (IES), Washington, DC.
- McNeil**, N. M. (2009, May). Effect of arithmetic practice on mathematical thinking. In C. L. O’Donnell & E. R. Albro (Co-Chairs), *Developing preschool through middle school students’ understandings of fundamental concepts in mathematics*. Symposium presented at the Annual Convention of the Association for Psychological Science, San Francisco, CA.
- McNeil**, N. M. (2009, April). Invited Discussion: Evaluating the role of input in children’s (mis)understanding of mathematical equivalence. In M. M. Capraro (Chair), *An international perspective on sixth graders’ interpretation of the equal sign*. Symposium presented at the Annual Meeting of the American Education Research Association, San Diego, CA.

- ^GPetersen, L. A., & **McNeil**, N. M. (2009, April). Effect of concrete objects on counting skill: An interaction between perceptual richness and established knowledge. In P. G. Matthews (Organizer), *Unpacking concreteness: Understanding how symbol choice impacts learning and transfer*. Symposium presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Denver, CO.
- Alibali, M. W., Prather, R. W., & **McNeil**, N. M. (2009, April). Are abstract or concrete materials most beneficial for learning? It depends on problem difficulty and learners' skills. In M. J. Nathan (Organizer), *The role of concrete examples in learning math: Resolving some paradoxes*. Symposium presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Denver, CO.
- McNeil**, N. M., Dunwiddie, A. E., Brletic-Shipley, H., ^GPetersen, L. A., & ^UGibson, M. H., (2008, June). Arithmetic practice that promotes conceptual understanding and computational fluency. Poster presented at the Annual Research Conference of the Institute of Education Sciences (IES), Washington, DC.
- ^GPetersen, L. A., & **McNeil**, N. M. (2007, October). How do different types of objects affect children's developing counting skill? Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), Santa Fe, NM.
- McNeil**, N. M., Jarvin, L., Sternberg, R. J., Uttal, D. H. (2007, March). Trade offs between more and less concrete manipulatives. In D. H. Uttal (Organizer), *Concreteness and cognitive development: New perspectives on a classic developmental issue*. Symposium presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Boston, MA.
- McNeil**, N. M. (2007, March). Tales of a fourth-grade misconception: U-shaped development in children's performance on mathematical equivalence problems. In J. H. Bisanz & J. L. Sherman (Organizers), *Overcoming misconceptions: Mechanisms of positive change for a common mathematical misunderstanding*. Symposium presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Boston, MA.
- Jarvin, L., **McNeil**, N. M., & Sternberg, R. J. (2006, June). Understanding students' mathematical competencies: An exploration of the impact of contextualizing math problems. Poster presented at the Institute of Education Sciences (IES) Research Conference, Washington, DC.
- McNeil**, N. M., Weinberg, A., Alibali, M. W., & Knuth, E. J. (2005, April). Children's prior knowledge of letters influences the interpretation of algebraic expressions. Poster presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Atlanta, GA.
- Weinberg, A., Stephens, A. C., **McNeil**, N. M., Krill, D.E., Knuth, E. J., & Alibali, M. W. (2004, April). Students' initial and developing conceptions of variable. Paper presented at the 2004 meeting of the American Educational Research Association (AERA), San Diego, CA.
- Evans, J. L., Alibali, M. W., Mainela-Arnold, E., **McNeil**, N. M., Ryan, K. E., & Simon, L. C. (2003, June). The role of gesture in comprehension of spoken language in children with E-SLI and ER-SLI. Poster presented at the Symposium for Research on Child Language Disorders (SRCLD), Madison, WI.

- McNeil, N. M., & Alibali, M. W.** (2002, June). A well-established schema can interfere with learning: Evidence from children's mathematical problem solving. Poster presented at the Fourteenth Annual Convention of the American Psychological Society (APS), New Orleans, LA.
- McNeil, N. M., & Alibali, M. W.** (2001, October). Don't be too sure about that: Certainty about an incorrect strategy hinders cognitive change. Poster presented at the Second Biennial Meeting of the Cognitive Development Society, Virginia Beach, VA.
- McNeil, N. M.** (2001, April). Mental sets and flexibility in the development of mathematical skill. Poster presented at the Biennial Meeting of the Society for Research in Child Development (SRCD), Minneapolis, MN.
- McNeil, N. M., Alibali, M. W., & Evans, J. L.** (1998, June). *Cognitive deficits in children with Specific Language Impairments: Do gestures reveal hidden knowledge?* Poster presented at the Symposium for Research on Child Language Disorders (SRCLD), Madison, WI.

GRANTS AND SPONSORED PROGRAMS

- 2009-2012 National Science Foundation, REESE, #0910218 (role: Consultant/Advisory Board)
"Transfer for perceptually grounded principles." (PI: Goldstone, Indiana University)
- 2007-2011 Institute of Education Sciences, U.S. Department of Education, R305B070297 (role: PI)
"Arithmetic practice that promotes conceptual understanding and computational fluency." [\$761,425 total costs (\$605,461 direct)]
- 2002-2004 Graduate Student Research Grants, University of Wisconsin [4 totaling \$1700]
- 1997-1999 Small Undergraduate Research Grants, Carnegie Mellon [3 totaling \$1200]

MASTER'S THESES DIRECTED

- Lori Petersen* (Passed April 2010)
M. Claire Keultjes (Passed April 2010)

DOCTORAL DISSERTATIONS DIRECTED

NA

OTHER NOTABLE CONTRIBUTIONS

Teaching

Courses Taught

- Cognitive Development (Graduate), University of Notre Dame, 2008
Cognitive Development (Undergraduate), University of Notre Dame, 2007, 2008, 2010
Research Methods (Undergraduate), University of Notre Dame, 2006
Learning and Instruction (ACE Program), University of Notre Dame, 2007, 2008, 2009, 2010
Developmental Psychology (ACE Program), University of Notre Dame, 2007, 2009
Introduction to Psychology (American Collegiate Adventures), University of Wisconsin, 2000, 2001

Courses TAed

Statistical Analysis of Psychological Experiments (Graduate), University of Wisconsin, 2003, 2004
Introduction to Psychology (Undergraduate), University of Wisconsin, 2000
Introduction to Psychology (Undergraduate), Carnegie Mellon, 1999
Research Methods (Undergraduate), Carnegie Mellon, 1998

Undergraduate Student Advising

Stephanie Borjas (2010-present)
Research: TBA

Lauren Wester (2010-present)
Research: Effects of contextualization of mathematics problems on learning and transfer

Erica Pepitone (2009-present)
Research: Arithmetic practice that promotes conceptual understanding and computational fluency

Joanna Thurnes (2009-2010)
Research: Arithmetic practice that promotes conceptual understanding and computational fluency
After Notre Dame: Graduate student in physical therapy school

Jenny Heil (2008-2010)
Research: Early symbolic understanding; effects of games on children's mathematics learning
Honors: Honors Thesis; Senior Recognition Award in Psychology
After Notre Dame: Jesuit Volunteer Corps

Emily Fyfe (formerly Conrad) (2007-2010)
Research: Advantages and disadvantages of concrete vs. abstract representations in mathematics
Honors: Loughrey Award (summer UROP), Honors Thesis, Santos Award for Distinction in Psychology, National Science Foundation (NSF) Graduate Fellowship Honorable Mention
After Notre Dame: Graduate student in psychology at Vanderbilt University

Noelle Crooks (2008-2009)
Research: Effects of practice on problem solving
Honors: Honors Thesis, National Science Foundation (NSF) Graduate Fellowship Honorable Mention
After Notre Dame: Graduate student in psychology at University of Wisconsin-Madison

Krysten Williams (2007-2008)
Research: Arithmetic practice that promotes conceptual understanding and computational fluency
After Notre Dame: Graduate student in clinical psychology at Rutgers University

Matthew Gibson (2006-2008)
Research: Effects of problem format on young children's conceptual understanding of addition
Honors: McGrath Scholar (summer UROP), Honors Thesis, Santos Award for Distinction in Psychology
After Notre Dame: Teach for America

Christopher Howard (McNair/Notre Dame Scholars Program, summer 2007)
Research: Association between visual-spatial working memory and math performance

Graduate Student Advising

Lori Petersen (2007-present)

Research: Use of concrete objects and abstract symbols to represent mathematics concepts

M. Claire Keultjes (2008-2010)

Research: Effects of formal mathematics instruction on informal mathematics reasoning

Masters, Preliminary Examination, and Dissertation Committees

Paul Stey (Masters, 2010-present)

Andrea Tamplin (Masters, 2007-2009)

Melissa Mitchell (Masters, 2008-2009)

M. Windy Mc Nerney (Preliminary Examination, 2008)

Andrea Christensen (Masters, 2008)

University and Departmental Service

2010-present Member, Policy and Planning Committee

2006-present Chair, E. M. Koppitz Child Psychology Graduate Fellowship Nomination Committee

2009-2010 Member, Student Research Participation Committee

2009 Member, Search Committee for IEI Postdoc in Curriculum & Instruction

2008-2009 Member, Colloquium Committee

2008-2009 Member, Space, Parking, and Security Committee

2008-2009 Member, Ad-hoc Committee to Develop Protocol for Participant Payment

2008-2009 Member, Cognitive Search Committee

2008-2009 Member, Search Committee for the IEI Postdoc and Dissertation Award in Education

2007-2009 Faculty Mentor, Academic Honors Program for Student-Athletes at Notre Dame

2006-2009 Member, Committee for Change in Teaching Load

2007-2008 Member, Committee for Research Opportunities in the IEI

2007, 2009 Member, ACE Selection Committee

2007, 2008 Member, Developmental Area Preliminary Examination Committee

Professional Service

Conference submission reviewer

Annual Conference of the Cognitive Science Society, 2005-present

Annual Meeting of the American Educational Research Association, 2007-present

SRCD, Neurodevelopmental and Cognitive Processes, 2012 Biennial Meeting

Conference program committee member or chair

Program co-chair, AERA Division C, Section 3 (Mathematics), 2011 Annual Meeting

Program committee member, Cognitive Science Society, 2010 Annual Meeting

Program committee member, APA Division 7, 2008 Convention

Grant reviewer

National Science Foundation, Developmental and Learning Sciences (ad hoc reviewer), 2008, 2010

National Science Foundation, Division of Research on Learning (grant panel member), 2008

Manuscript reviewer (ad hoc)

Behavioral and Brain Sciences

Child Development

Cognition and Instruction

Developmental Psychology

Developmental Science

Early Childhood Research Quarterly

Journal of Educational Psychology

Journal of Experimental Child Psychology

Journal of Experimental Psychology: Learning, Memory, & Cognition

Learning and Individual Differences

Learning and Instruction

Memory & Cognition

Psychological Science

Book reviewer

John Wiley & Sons, Inc.

Community Service

- 2009-present Guest Speaker, Notre Dame RET Summer Program for local math and science teachers
- 2007-present Director, *Cognitive Development News*, a triannual newsletter disseminated to teachers and parents to keep them informed of research findings in psychology and education
- 2006-present Volunteer Reader, "Read to a Child" Literacy Project with South Bend Public Schools
- 2006-present Participant in Annual American Cancer Society's Relay for Life
- 2009-2010 Bread Baker, St. Joseph Church, South Bend, IN (church stopped needing bread 2/2010)
- 2005 Director, After-School Algebra Enrichment Programs, North Haven & Wallingford, CT
- 2003-2004 Coordinator, Middle + High School Youth Formation Programs, St. Paul's, Madison, WI
- 2001-2003 Volunteer Mathematics Tutor (Undergraduate level), Madison, WI
- 1999-2005 Bread Baker, St. Paul's University Center, Madison, WI
- 2002 Facilitator, Professional Development Workshop for math teachers, Madison, WI
- 1997-2002 Youth Formation Teacher, Elizabeth, PA (5th grade); Sun Prairie, WI (7th grade)
- 1993-1998 Volunteer for the Sudden Infant Death Syndrome Alliance, Pittsburgh, PA

Last updated 9/2010