

Curriculum Vitae
Paula Fitzpatrick
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Psychology Department
Assumption College
Worcester, MA 01609
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Field of Specialization Experimental Psychology: Cognitive & Developmental

Research Interests: Understanding how bodily movements tune psychological development

- understanding the relationship between motor coordination and social skills
- evaluating the contribution of social coordination to social problems in autism
- exploring the factors (at the level of the child *and* family) that influence the development of motor skill
- assessing the relationship between motor skill and early learning and academic success.

Education

B.A.	1989	University of Connecticut
Ph.D.	1993	University of Connecticut

Positions

9/2013-present	Chair, Psychology Department	Assumption College
5/2012- present	Professor	Assumption College
1/06-5/09	Director, Honors Program	Assumption College
8/04-8/06	Chair, Psychology Department	Assumption College
5/02-5/2012	Associate Professor	Assumption College
Spring 2000	Chair, Psychology Department	Assumption College
8/96-5/02	Assistant Professor	Assumption College
1/96-5/96	Instructor	University of Connecticut
5/95-8/96	Research Specialist	CESPA, University of Connecticut
8/95-10/95	Research Consultant	Hartford Hospital
9/93-5/95	Postdoctoral Research Associate	Tulane University
9/90 - 7/93	NSF Predoctoral Fellow	CESPA, University of Connecticut
9/89 - 8/90	Research Assistant	CESPA, University of Connecticut
9/89 - 5/90	Teaching Assistant	University of Connecticut

Courses Taught

Honors Life Stories	General Psychology Tagaste Linkage: Windows on Behavior
Honors Seminar	Research Methods
Psychology of Art	Graduate Research Methods
Perception	Cognitive Psychology
Psychology Research Seminar	Experimental Psychology w/Lab
General Psychology	Sensation and Perception Laboratory
Honors General Psychology	
Positive Psychology	

Publications

- Romero, V., Amaral, J., Fitzpatrick, P., Schmidt, R. C., & Richardson, M. J. (2015). Capturing social motor coordination: A comparison of the Microsoft Kinect, video-motion analysis and the Polhemus Latus motion tracking system. In D. C. Noelle, R., Dale, A. S. Warlaumont, J. Yoshimi, T. Matlock, C. D. Jennings, & P. P. Maglio (Eds.), *Proceedings of the 37th Annual Meeting of the Cognitive Science Society*. Austin, TX: Cognitive Science Society.
- Fitzpatrick, P., Schmidt, K.*, Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. (2015). Perceiving Movement synchronization differences in autism. In J. Weast-Knapp, M. Malone, & D. Abney (Eds.), *Studies in perception and action XIII: Eighteenth international conference on perception and action*, New York, NY: Psychology Press, Taylor & Francis Group.
- Fitzpatrick, P., Mitchell, T., Frazier, J., Cochran, D, Coleman, C.*, & Schmidt, R. C. (2015). Exploring the behavioral and neural processes underlying social synchronization of individuals with and without social deficits. In J. Weast-Knapp, M. Malone, & D. Abney (Eds.), *Studies in perception and action XIII: Eighteenth international conference on perception and action*, New York, NY: Psychology Press, Taylor & Francis Group.
- Schmidt, R. C., & Fitzpatrick, P.A. (2014). Understanding the motor dynamics of interpersonal interactions. *IEEE International Conference on Systems, Man, and Cybernetics*, 774-778.
- Fitzpatrick, P., Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. (2013). Is social competence a multi-dimensional construct? Motor and cognitive components in autism. In T. J. Davis, P. Passos, M Dicks, & J. A. Weast-Knapp (Eds.), *Studies in perception and action XII: Seventeenth international conference on perception and action*, New York, NY: Psychology Press, Taylor & Francis Group.
- Fitzpatrick, P., Aguilar, J.*, Garry, A.*, & Bongers, R. M. (2013). Evaluating perception and performance in a hammering task. In T. J. Davis, P. Passos, M Dicks, & J. A. Weast-Knapp (Eds.), *Studies in perception and action XII: Seventeenth international conference on perception and action*, New York, NY: Psychology Press, Taylor & Francis Group.
- Fitzpatrick, P., Diorio, R. Richardson, M. J., & Schmidt, R. C. (2013). Dynamical methods for evaluating the time-dependent unfolding of social coordination in children with autism. *Frontiers in Integrative Neuroscience*, 7 (21), 1-13. doi: 10.3389/fnint.2013.00021
- Fitzpatrick, P., Vander Hart, N., & Cortesa, C.* (2013). The influence of instructional variables and task constraints on handwriting development. *The Journal of Educational Research*, 106 (3), 216-234.
- Schmidt, R. C., Morr, S., Fitzpatrick, P., & Richardson, M. J. (2012). Measuring the dynamics of interactional synchrony. *Journal of Nonverbal Behavior*, 36, 263-279.
- Fitzpatrick, P. A., Diorio, R., Richardson, M. J., & Schmidt, R. C. (2012). Exploring the role of interpersonal motor coordination in the breakdown of shared representations in Autism Spectrum Disorder (ASD). *Journal of Sport and Exercise Psychology*, 34 (supplement), S21-22.
- Fitzpatrick, P., Wagman, J. B., & Schmidt, R. C. (2012). The role of haptic variables in altering movement dynamics in a preschool hammering task. Special Issue of *Journal of Psychology (Zeitschrift für Psychologie)*, *Using Tools: From Movements to Environmental Effects*, 220 (1), 23-28.
- Schmidt, R. C., Fitzpatrick, P., Caron, R., & Mergeche, J. (2011). Understanding social motor coordination. *Human Movement Science*, 30(5), 834-845.
- Vander Hart, N., Fitzpatrick, P., & Cortesa, C. * (2010). Evaluation of handwriting instruction practices in four kindergarten classrooms. *Reading and Writing*, 23 (6), 673-699.
- Fitzpatrick, P., & Flynn, N.* (2010). Dynamic touch perception in preschool children. *Ecological Psychology*, 22 (2), 89-118.
- Stroop, M., Turvey, M. T., Fitzpatrick, P., & Carello, C. (2000). Inertia tensor and weight-percept models of length perception by static holding. *Journal of Experimental Psychology: Human Perception and Performance*, 26 (3), 1133-1147.
- Goldfield, E. C., Schmidt, R. C., & Fitzpatrick, P. (1999). Modeling coordination of chest and abdomen during infant breathing: A comparison of full term and preterm infants at 38 weeks postconceptional age. *Ecological Psychology*, 11(3), 209-232.
- Carello, C, Fitzpatrick, P., Flascher, I., & Turvey, M. T. (1998). Inertial eigenvalues, rod density, and rod diameter in length perception by dynamic touch. *Perception & Psychophysics*, 60, 89-100.
- Fitzpatrick, P. (1998). Modeling coordination dynamics in development. In K. Newell & P. Molenaar (Eds.), *Applications of nonlinear dynamics to developmental process modeling*. Hillsdale, NJ: Erlbaum.
- Schmidt, R. C., Bienvenu, M., Fitzpatrick, P. A., & Amazeen, P. G. (1998). Effects of frequency scaling and frequency detuning on the steady-state properties and breakdown of coordinated rhythmic movements. *Journal of Experimental Psychology: Human Perception and Performance*, 24, 884-900.
- Fitzpatrick, P. (1997). Perception-Action Coupling: Commentary on Rochat's "Early development of the ecological self". In C. Reed (Ed.), *Evolving explanations of development: Ecological approaches to organism-environment systems*. Washington, DC: APA.

- Schmidt, R. C., & Fitzpatrick, P. (1996). Dynamical perspectives on motor learning. In H. Zelaznik (Ed.), *Advances in motor learning and control*. Chicago: Human Kinetics.
- Fitzpatrick, P. A., Schmidt, R. C., & Lockman, J. J. (1996). Dynamical patterns in the development of clapping. *Child Development, 67*, 2691-2708.
- Turvey, M. T., Carello, C., Fitzpatrick, P., Pagano, C. C., & Kadar, E. E. (1996). Two valuedness of spinors and selective dynamic touch *Journal of Experimental Psychology: Human Perception and Performance, 22*, 1113-1126.
- Fitzpatrick, P. A., Schmidt, R. C., & Carello, C. (1996). Dynamical patterns in clapping behavior. *Journal of Experimental Psychology: Human Perception and Performance, 22*, 707-724.
- Fitzpatrick, P., Carello, C., Schmidt, R. C., & Corey, D. (1994). Haptic and visual perception of an affordance for upright posture. *Ecological Psychology, 6*(4), 265-287.
- Fitzpatrick, P., Carello, C., & Turvey, M. T. (1994). Eigenvalues of the inertia tensor and exteroception by the "Muscular Sense". *Neuroscience, 60*(2), 551-568.
- Turvey, M. T., & Fitzpatrick, P. (1993). Commentary: Development of perception-action systems and general principles of pattern formation. *Child Development, 64* (4), 1175-1190.
- Pagano, C. C., Fitzpatrick, P., & Turvey, M. T. (1993). Tensorial basis to the constancy of perceived object extent over variations of dynamic touch. *Perception and Psychophysics, 54* (1), 43-54.
- Carello, C., Peck, A., & Fitzpatrick, P. (1993). Haptic and visual matches for haptically perceived extent are equivalent. *Bulletin of the Psychonomic Society, 31*(1), 13-15.
- Carello, C., Fitzpatrick, P., & Turvey, M. T. (1992). Haptic probing: Perceiving the length of a probe and the distance of a surface probed. *Perception and Psychophysics, 51*(6), 580-598.
- Carello, C., Fitzpatrick, P., Dominawitz, I., Chan, T. C., & Turvey, M. T. (1992). Effortful touch with minimal movement. *Journal of Experimental Psychology: Human Perception and Performance, 18*(1), 290-302.

* denotes student author

Under Review

- Fitzpatrick, P., Frazier, J. A., Mitchell, T., Cochran, D., Coleman, C., & Schmidt, R. C. (under review). Evaluating social synchrony in adolescents with autism spectrum disorder.

In Preparation

- Fitzpatrick, P. (in preparation). Examination of movement and grip variability while using spoons.
- Romero, V., Amaral, J., Fitzpatrick, P., Schmidt, R. C., & Richardson (in preparation). Capturing social motor coordination in children: A comparison of the Microsoft Kinect, Video-Motion Analysis and the Polhemus Latus Motion Tracking System.
- Fitzpatrick, P., Romero, V., Amaral, J., Duncan, A., Bishop, S., Barnard, H., Richardson, M. J., & Schmidt, R. C. (in preparation). Social movement coordination: Insights for understanding social behavior in autism.
- Fitzpatrick, P., Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. (in preparation). Dynamical analysis of the development of social movement coordination: An overlooked dimension of social competence.

Presentations and Colloquia

- Fitzpatrick, P., Frazier, J. A., Mitchell, T., Cochran, D., Coleman, C., & Schmidt, R. C. (2015). Exploring the Behavioural and Neural Processes of Joint Action in Individuals with and without Social Deficits. Paper presented at the 6th Joint Action Meeting, Budapest, Hungary, July, 2015.
- Schmidt, R. C., & Fitzpatrick, P.A. (2014). Understanding the motor dynamics of interpersonal interactions. Paper presented at 2014 IEEE International Conference on Systems, Man, and Cybernetics, San Diego, CA, October 2014.
- Kuersten-Hogan, R., Kalpidou, M., & Fitzpatrick, P. (2014). Triadic interactions from pregnancy through the first year: Prenatal predictors of postnatal coparenting and family expressiveness. In: M. Deschenes (Chair): Quality of the family triad during infancy and beyond: Prenatal and postnatal influences. Symposium presented at the International Conference on Infant Studies, Berlin, Germany, July 2014.
- Kuersten-Hogan, R., Fitzpatrick, P., Kalpidou, M., & Lyubchik, A. (2014). Predicting infant functioning in the first year: The role of prenatal and postnatal coparenting dynamics and family expressiveness. In C. Lavanchy Scaiola (Chair): Links between early family interactions and children's social-emotional development in the toddler and preschool years. Symposium presented at the World Congress of the World Association for Infant Mental Health, Edinburgh, Scotland, June, 2014.
- Fitzpatrick, P. (2013). The importance of the perception-action cycle and dynamics in understanding tool use development and social deficits. Colloquia presented at the Fall 2013 Cognition Action Perception Speaker Series, University of Cincinnati, December, 2013.

- Schmidt, R. C., Fitzpatrick, P. & Marin, L. (2013). What do autism and schizophrenia tell us about modeling behavioral dynamics? Invited paper presented at The Guy Van Orden UConn Workshop on Cognition and Dynamics VIII, University of Connecticut, Storrs, CT, August 2013.
- Fitzpatrick, P., Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. (2013). The Role of Joint Action in Evaluating Social Competence in Autism. Paper presented at the 5th Joint Action Meeting, Berlin, Germany, July, 2013.
- Richardson, M., Coey, C., Schmidt, R. C., Kloos, H., & Fitzpatrick, P. . Linear and nonlinear time-series methods for the investigation of social movement coordination. Paper presented at the International Society for the Study of Behavioural Development 2012 Biennial Meeting. Edmonton, Alberta, Canada, July 2012.
- Fitzpatrick, P., Diorio R., Richardson, M. J., & Schmidt R. C. Exploring the role of interpersonal motor coordination in the breakdown of shared representations in Autism Spectrum Disorder (ASD). Paper presented at the North American Society for the Psychology of Sport and Physical Activity (NASPSPA). Honolulu, Hawaii, June 2012.
- Fitzpatrick, P. Bodies and behavior: Linking biology and psychology in a first-year program. Paper presented at the Society for the Teaching of Psychology: Best Practices: Teaching Introductory Psychology Conference. Atlanta, Georgia, October, 2011.
- Fitzpatrick, P., Diorio, R. Richardson, M. J., & Schmidt, R. C. Exploring the time-dependent unfolding of social coordination in children with autism. Paper presented at the 16th International Conference on Perception and Action, Ouro Preto, Brazil. July, 2011.
- Fitzpatrick, P., Schmidt, R. C., Diorio, R., & Ward, C. Piloting techniques for investigating social coordination in typically developing and autistic children. Colloquia presented at the University of Cincinnati Psychology Department and Cincinnati Children's Hospital Medical Center, August, 2010.
- Schmidt, R. C., & Fitzpatrick, P. A new methodology to study interpersonal coordination in natural interactions. Paper presented at the 11th European Workshop on Ecological Psychology, Frejus, France, June, 2010.
- Fitzpatrick, P., & Vander Hart, N. Implementing effective handwriting instruction in elementary schools . Columbus Park Preparatory School Professional Development Workshop, October, 2009.
- Fitzpatrick, P., & Vander Hart, N. The importance of effective handwriting instruction in elementary education. Worcester Arts Magnet School Professional Development Workshop, September, 2009.
- Fitzpatrick, P. The influence of instructional variables and task constraints on the development of handwriting skill. Colby College Psychology Department Colloquium Series, October, 2008.
- Fitzpatrick, P. Future directions for the development of perceiving and acting: Moving beyond a "loan of development". Colloquia presented at the Perceiving and Acting Workshop, University of Connecticut, February, 2008.
- Fitzpatrick, P. The development of manual skill: A dynamical account of the role of performatory and perceptual variables. Colloquia presented at the National Science Foundation, Arlington, VA, May 2007.
- Fitzpatrick, P., & Kalpidou, M. Assessing academic programs and using the findings for curriculum revision and strategic planning: Examples from a Psychology department. New England Educational Assessment Network Fall Forum 2006, Closing the loop: Using findings for improvement, College of the Holy Cross, Worcester, MA, November, 2006.
- Fitzpatrick, P. An analysis of perception and action variables in tool use development. Paper presented at the 11th International Conference on Perception and Action, University of Connecticut, Storrs, CT, June 2001.
- Fitzpatrick, P. Issues in Dynamical Modeling in Development: Dynamic Touch and Clapping. Paper presented at the Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, St. Charles, Illinois, June 1998.
- Fitzpatrick, P. Psychology and the scope of a scientific understanding of the self. Paper presented at the D'Alzon lecture series, Assumption College. March, 1998.
- Fitzpatrick, P. Hands as perceivers and performers. Colloquia presented at Miami University, Oxford, Ohio. February, 1998.
- Fitzpatrick, P., & Schmidt, R.C. Using dynamical methods to understand developing systems. Paper presented at the 9th International Conference on Perception and Action, University of Toronto at Scarborough, July, 1997.
- Fitzpatrick, P. Dynamics of clapping: Modeling strategies for adults and children. Paper presented at 1996 North American International Society for Ecological Psychology Meeting, Trinity College, Hartford, CT, March 1996.
- Fitzpatrick, P. Dynamical patterns in the development of clapping. Paper presented at Dynamics and Development Conference, The Pennsylvania State University, State College, PA, October, 1994.
- Schmidt, R. C., Fitzpatrick, P., & Lockman, J. J. Rhythmic foundations of manual skill. Paper presented at Society for Research in Child Development, New Orleans, LA, March, 1993.
- Fitzpatrick, P. Development of motor coordination in clapping. Tulane University Psychology Department Colloquium Series, Tulane University, New Orleans, LA, February, 1993.

Posters

- Fitzpatrick, P., Schmidt, K.*, Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. (2015). Perceiving Movement synchronization differences in autism. Poster presented at the 18th International Conference on Perception and Action, Minneapolis, Minnesota. July, 2015.
- Fitzpatrick, P., Mitchell, T., Frazier, J., Cochran, D, Coleman, C.* & Schmidt, R. C. (2015). Exploring the behavioral and neural processes underlying social synchronization of individuals with and without social deficits. Poster presented at the 18th International Conference on Perception and Action, Minneapolis, Minnesota. July, 2015.
- Fitzpatrick, P., Bui, P., & Garry, A. (2015). Developmental changes in perception and performance in preschoolers performing a hammering task. Poster presented at the Society of Research in Child Development 2015 Biennial Meeting, Philadelphia, Pennsylvania, March, 2015.
- Fitzpatrick, P., Frazier, J., Cochran, D., Coleman, C., & Schmidt, R. C. (2015). Evaluating social synchrony for understanding autism. Poster presented at the Society of Research in Child Development 2015 Biennial Meeting, Philadelphia, Pennsylvania, March, 2015.
- Kuersten-Hogan, R., Fitzpatrick, P. & Kalpidou, M. (2014). Predicting infant functioning at the end of the first year: The roles of coparenting dynamics and parental depression. Poster presented at the International Conference on Infant Studies, Berlin, Germany, July, 2014.
- Fitzpatrick, P., Romero, V., Amaral, J., Thomas, C., Duncan, A., Barnard, H., Richardson, M. J., & Schmidt, R. C. (2014). Dynamics of Social Movement Coordination as a Pathway to Understanding ASD-Specific Social Deficits. Poster presented at the International Meeting for Autism Research (IMFAR), Atlanta, Georgia, May, 2014.
- Romero, V., Amaral, J., Fitzpatrick, P., Thomas, C., Duncan, A., Barnard, H., Richardson, M. J., & Schmidt, R. C. (2014). Capturing Social Motor Coordination in Children with Autism: Comparing the Microsoft Kinect, Video Analysis and Wireless Motion Sensor Tracking. Poster presented at the International Meeting for Autism Research (IMFAR), Atlanta, Georgia, May, 2014.
- Kalpidou, M., Markodimitraki, M., Fitzpatrick, P., Pateraki, M., & Kuersten-Hogan, R. (2013). A Cross-Cultural Study of Imitation and Emotional Climate in Mother-Infant Interactions the First Year of Life. Poster presented at 16th European Conference on Developmental Psychology, Lausanne, Switzerland, September, 2013.
- Soysa, C.K., Lapoint, S., Lahikainen, K., Fitzpatrick, P., & McKenna, C. Psycho-educational outcomes in underprivileged students: Cultural-capital and self-esteem. Poster presented at the annual meeting of the American Psychological Association, Honolulu, HI, August, 2013.
- Soysa, C.K. & Fitzpatrick, P. Writing in Introductory Psychology: Teaching text, Technology, and transdisciplinarity. Poster presented at the annual meeting of the American Psychological Association, Honolulu, HI, August, 2013.
- Romero, V., Malone, M. L, Fitzpatrick, P., Richardson, M. J., & Schmidt, R. C. (2013). Capturing Social Motor Coordination: Comparing the Microsoft Kinect, Video Analysis and Wireless Motion Sensor Tracking. Poster presented at the 5th Joint Action Meeting, Berlin, Germany, July, 2013.
- Fitzpatrick, P., Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. (2013). Is Social Competence a Multi-dimensional Construct? Motor and Cognitive Components in Autism. Poster presented at the 17th International Conference on Perception and Action, Lisbon, Portugal. July, 2013.
- Fitzpatrick, P., Aguilar, J.*, Garry, A.*, & Bongers, R. M. (2013). Evaluating Perception and Performance in a Hammering Task. Poster presented at the 17th International Conference on Perception and Action, Lisbon, Portugal. July, 2013.
- Schmidt, R. C., Fitzpatrick, P., & Richardson, M. J. (2013). Imitation and Social Synchronization Deficits in Children with ASD. Poster presented at EuroMov Conference, Montpellier, France, June 2013.
- Fitzpatrick, P., Januszewski, J.*, Tocco, K.* & Kalpidou, M. (2013). Relationship between spontaneous imitation during 12-month free-play and prenatal marital quality and coparenting perceptions. Poster symposium presented at the Society of Research in Child Development 2013 Biennial Meeting, Seattle, Washington, April 2013.
- Fitzpatrick, P., Diorio, R., Ward, C., & Schmidt, R. C. Piloting a microgenetic approach to study social coordination in typically developing and autistic children. Poster presented at the Society of Research in Child Development 2011 Biennial Meeting, April 2011.
- Vander Hart, N., & Fitzpatrick, P. Handwriting curriculum and instruction: Current practice and future implications. Poster presented at the Council for Exceptional Children (CEC) Convention and Expo, Nashville, Tennessee, April 21-24, 2010.
- Fitzpatrick, P., Caron, R., Mergeche, J., & Schmidt, R. C. A preliminary investigation of the dynamics of interpersonal hand-clapping games. Poster presented at the 3rd Joint Action Meeting, Amsterdam, Netherlands, July, 2009.
- Fitzpatrick, P., Vander Hart, N., & Cortesa, C.* The influence of instructional variables and task constraints on the development of handwriting skill. Poster presented at the Society of Research in Child Development 2009 Biennial Meeting, April 2009.
- Fitzpatrick, P. Haptic variables and task constraints in the movement dynamics of children performing a hammering

- task. Poster presented at A Natural-Physical Perspective on Perception-Action Cognition Conference, University of Connecticut, Storrs, CT, June, 2008.
- Fitzpatrick, P. Influence of task constraints on movement and grip variability in the development of spoon-using skill. Poster presented at the Third International Conference on Enactive Interfaces, Montpellier, France. November, 2006.
- DeMarco, K.*, & Fitzpatrick, P. Effects of inter-hemispheric communication and coupling strength on interlimb coordination in clapping. Poster presented at National Conference on Undergraduate Research, Lexington, VA, April, 2005.
- Fitzpatrick, P. Role of dynamic touch in tool use development. Poster presented at the 2000 North American Meeting of the International Society for Ecological Psychology, Clemson University, Clemson, South Carolina, June, 2000.
- Witkowski, J.*, Fitzpatrick, P., & Santana, M-V. Assessment of dynamic touch in preschool children. Poster presented at the 1998 North American Meeting of the International Society for Ecological Psychology, Trinity College, Hartford, CT, May, 1998.
- Stroop, M., & Fitzpatrick, P. Inertial tensor manipulations of length perception by static holding. Poster presented at the 9th International Conference on Perception and Action, University of Toronto at Scarborough, July, 1997.
- Schmidt, R. C., Corey, D., Fitzpatrick, P. A., & Riley, M. The oscillatory basis of Fitts' Law. Poster presented at the 8th International Conference on Event Perception and Action, Marceis, France, July, 1995.
- Fitzpatrick, P., & Schmidt, R. C. Dynamical patterns in clapping: Modeling adult and developmental data. Poster presented at the 1994 North American International Society for Ecological Psychology Meeting, University of Connecticut, Storrs, CT, September, 1994.
- Fitzpatrick, P., Carello, C., & Schmidt, R. C. Affordance perception as a nonlinear phase transition. Poster presented at the 1993 North American International Society for Ecological Psychology Meeting, Smith College, Northampton, MA, October 1993.
- Pagano, C. C., Fitzpatrick, P., & Turvey, M. T. Perceiving lengths of objects wielded about different points of rotation. Poster presented at the 18th meeting of International Society for Ecological Psychology, Trinity College, Hartford, CT, October, 1991.
- Fitzpatrick, P. A., Schmidt, R. C., Carello, C., & Turvey, M. T. Exploratory movements underlying the haptic perception of orientation. Poster presented at the 6th International Conference on Event Perception and Action, Free University, Amsterdam, August, 1991.
- Fitzpatrick, P., Carello, C., & Turvey, M. T. The major and minor rotational moments affect the perception of length by dynamic touch. Poster presented at the 17th meeting of International Society for Ecological Psychology, Trinity College, Hartford, CT, October, 1990.
- Carello, C., Fitzpatrick, P., & Turvey, M. T. Intentional partitioning of the mass distribution of hand-held objects. Poster presented at the 17th meeting of International Society for Ecological Psychology, Trinity College, Hartford, CT, October, 1990.
- Carello, C., Fitzpatrick, P., Schmidt, R. C, Turvey, M. T., & Treffner, P. J.. Dynamics of haptic exploration. Poster presented at the 16th meeting of International Society for Ecological Psychology, University of Illinois, Urbana-Champaign, IL, May, 1990.
- Fitzpatrick, P., Carello, C., & Turvey, M. T. Disentangling information for probe length from information for surface probed. Poster presented at the 15th meeting of International Society for Ecological Psychology, Dartmouth College, Hannover, NH, October, 1989.
- Carello, C., Fitzpatrick, P., & Turvey, M. T. Haptically perceiving a probe and perceiving by means of a probe. Proceedings of The Fifth International Conference on Event Perception, Miami University, Oxford, OH, July, 1989.

Extramural Funding

- National Science Foundation Predoctoral Fellowship, July 1990 - July 1993.
- National Science Foundation, Research Opportunity Award, Developmental issues in haptic perception and tool-use skill, granted through the University of Connecticut, September 2002-August 2003.
- National Science Foundation, Research Opportunity Award, Exploring the dynamical and social basis of interpersonal hand-clapping games, granted through the College of the Holy Cross, September 2009 – August 2010.
- National Institute of Health, R21 Grant (\$252,622 awarded), Evaluating the time-dependent unfolding of social interactions in children with autism, August 6, 2012 – May 13, 2014. Role: PI
- University of Massachusetts Medical School Department of Psychiatry and Assumption College Collaborative Pilot Research Program (CPRP), \$7,500 awarded, Evaluating Social Synchrony in Autism Spectrum Disorders, April 2013 – April 2015. Role: PI
- National Institute of Health, R21 Grant (\$441,956 requested), Neural and behavioral dynamics of social competence in autism, under review. Role: PI

National Institute of Health, R01 Grant (\$3,246,402 requested), Understanding the Dynamics of Social Motor Coordination to Improve Social Functioning in Children with Autism, under review. Role: PI

Intramural Funding

- Summer 1998. Faculty Development Grant, Assumption College. Development of perceptual abilities in tool use. \$3,000
- Summer 1999. Faculty Development Grant, Assumption College. Psychology of art. \$3,000
- Fall, 1999. Technology in Teaching Grant, Assumption College. Using technology to teach Perception.
- Summer 2002. Faculty Development Grant, Assumption College. Investigation of perceptual and motor control principles in tool-use skill, \$3,300
- Summer 2008. Honors Program Summer Fellowship (with Cathryn Cortesa). The effects of handwriting instruction methods on students' transcription skill and automaticity. \$3500
- Summer 2009. Faculty Development Grant, Assumption College, Comparing the effects of direct vs indirect handwriting instruction on students' handwriting performance. \$3500
- Summer 2011. Faculty Development Grant, Assumption College, Exploring social coordination in children with autism. \$3500
- Summer 2011. Honors Program Summer Fellowship (with Ashley Januszewski), Exploring the influence of parent-child interactions on the development of tool use. \$3500
- Summer 2013. Honors Program Summer Fellowship (with Andrea Garry), The dynamical analysis of motor control as a window to unlocking principles of motor development and social deficits. \$3500.
- Summer 2014. Honors Program Summer Fellowship (with Kathleen Schmidt), Perceiving Movement Synchronization Deficits in Autism. \$3500
- Summer 2014. Faculty Development Grant, Assumption College, An Analysis of Social Synchrony in Adolescents with and without Autism. \$3500.

Fellowships

- University of Connecticut Doctoral Dissertation Fellowship, July 1993 - August 1993
- University of Connecticut Predoctoral Fellowship, 1989-1990

Technical Reports

- Fitzpatrick, P., Carello, C., & Turvey, M. T. (1991). Contribution of rod diameter and composition to haptically perceiving length. *PAW Review: A technical report of the Perceiving-Acting Workshop in Ecological Psychology at the University of Connecticut, Vol 6, No 1.*
- Fitzpatrick, P., & Carello, C. (1990). Perceiving probes and probed surfaces. *PAW Review: A technical report of the Perceiving-Acting Workshop in Ecological Psychology at the University of Connecticut, Vol 5, No 1.*
- Fitzpatrick, P., & Carello, C. (1989). Haptically perceiving a probe and perceiving by means of a probe. *PAW Review: A technical report of the Perceiving-Acting Workshop in Ecological Psychology at the University of Connecticut, Vol4, No 1, 14-18.*

Conference Attendance

"Dialogues in the Disciplines". New England Educational Assessment Network, University of Massachusetts, Amherst, Spring, 2004.

Student Presentations at Assumption College Undergraduate Symposium

Duke, V., & Gilson, C. (2007). Violence in Television: Comparing Networks and Target Audience Age. Paper presented at the Undergraduate Symposium, Assumption College, Worcester, MA, April 2007. Awarded Best Social Science Presentation.

- Catalano, A. (2009). Experiences and Issues in Foster Care Demonstrated through Case Studies. Poster presented at the 15th Undergraduate Symposium, Assumption College.
- Oertel, D. (2010). Evaluating the impact of handwriting instructional techniques on student outcomes. Paper presented at the 16th Undergraduate Symposium, Assumption College.
- Slavinias, A. (2010). Effects of research-based handwriting instruction. Poster presented at the 16th Undergraduate Symposium, Assumption College.
- Januszeswki, A. (2012). Exploring the relationship between parent-child interactions and gross and fine motor skill. Poster presented at the 18th Undergraduate Symposium, Assumption College.
- Bui, P. (2014). Tool use development in preschool aged children. Paper presented at the 20th Undergraduate Symposium, Assumption College.
- Schmidt, K. (2015). Perception of movement synchronization differences in autism spectrum disorder. Paper presented at the 21st Undergraduate Symposium, Assumption College.
- Sinead, S. (2015). Perceptions and prevalence of mindfulness and meditation among college students. Poster presented at the 21st Undergraduate Symposium, Assumption College.

Student Presentations at Assumption College Graduate Symposium

- Maslen-White, J. (2010). Paper presented at the 1st Graduate Symposium, Assumption College.
- Farley, K. (2014). Evaluating Social Synchrony in Autism Spectrum Disorder. Poster presented at the 5th Graduate Symposium, Assumption College.

Professional Service

Professional Societies

International Society for Ecological Psychology
Society for Research in Child Development

Journal Consultanships

Ad Hoc reviewer for *Journal of Experimental Psychology: Human Perception and Performance*, *Developmental Neuropsychology*, *International Journal of Behavioral Development*, *Ecological Psychology*, *Journal of Psychology (Zeitschrift für Psychologie)*, *Attention, Perception, & Psychophysics*, and *Motor Control*
Grant reviewer for National Science Foundation grant and fellowship program

Symposia Chaired

The development of coordination symposium at the 9th International Conference on Perception and Action, University of Toronto at Scarborough, July 1997. (co-chair with E. Goldfield and R. Schmidt)

Committee Service

Fall 1997 – 2000	Institutional Review Board
Spring 1998	Search Committee Member, Psychology Department Search
Spring 1998	Search Committee Member, Social Rehabilitation Search (2 positions)
Spring 1998	member, Evaluation Committee
Fall 1998/Spring 1999	Chair, Faculty Development Committee
Spring 1999	alternate, Evaluation Committee
Fall 99/Spring 00	member, Faculty Development Committee
Fall 99-Spring 01	member, Evaluation Committee
Spring 2000	Search Committee Member, Chemistry Search
Spring 2000	Acting Chair, Institutional Review Board
Spring 2000	Acting Chair, Psychology Department
2001-present	Orientation, Model Class, Course Selection Preparation
2004-2005	member, Institutional Review Board
2004-2006	Chair, Psychology Department
2005-2006	Tuition Exchange Committee
Spring 2005	Chair, Psychology Department Search Committee

Spring 2006-Spring 2009	Director, Honors Program
2005-2007	member, Evaluation Committee, Presidential Appointee
2007-2009	member, Undergraduate Symposium Committee
Spring 2007	Chair, Associate Dean of the First Year Search Committee
Spring 2007	member, Provost Search Committee
Spring 2008	member, Psychology Department Search Committee
Fall 2010-Fall 2011	member, Institutional Review Board
Fall 2010-Spring 2012	participant, Tagaste Project
Fall 2010	participant, Persepolis Debate
Fall 2010-present	chair, Psychology Department Computer Committee
Fall 2011-2013	chair, Institutional Review Board
Fall 2011-present	member, Assessment Committee
Spring 2012	member, Natural Sciences Anatomy Search Committee
Spring 2012	Mock Classroom, Early Action Accepted Students Day
Spring 2012	member, Core Curriculum Revision Committee
Fall 2012-Spring 2014	Presidential appointee, Evaluation Committee
Fall 2013-Fall 2014	member, Institutional Review Board
Summer 2014	member, Core Curriculum Revision Committee
Fall 2014-present	chair, Strategic Plan Innovation Team for New Undergraduate Program Development

Mentoring of Students in Research

Comparative analysis of dynamic touch and manipulatory actions in preschool children

Fall 1998 and Spring 1999	piloting and data collection Jennifer Witkowski, Graduate student
Fall 2000	finished data collection, <u>45 preschool children</u> (3-5 years old) preliminary data analysis Agneska W and Sara Ayers
Fall 2005 & Spring 2006	finished data analysis, literature review and manuscript preparation Nicole Flynn, Graduate Fellow

The role of haptic variables in altering movement dynamics in a preschool hammering task

Fall 1999	experimental task piloting Erica Godin
Fall 2000	pilot data collected and experimental materials tested Kelly Berger Thomas Richards
2002 - 2003	experimental materials re-designed, experiment planned data collected, <u>77 preschool children</u> (3-5 years old), <u>12 adult participants</u> Pat Lemley, Graduate Fellow Stephanie Gregware Sherrie Foote Abby Danforth Rebecca Hunter

Examination of movement and grip variability while using spoons

2003-2004	designed study, recruited participants collected data, <u>60 preschool children</u> (2-5 years old) Videotape coding of data completed began data analysis of movement trajectories Stephanie Gregware, Graduate Fellow Shannon Duncan, Graduate Fellow Rebecca Goulet Abby Danforth Karyn Leipold
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Lindsay Warren

Effects of inter-hemispheric communication and coupling strength on interlimb coordination in clapping

2005-2006 designed study, recruited participants
collected data, 26 children (8-12 years old), 9 adult participants
preliminary data analysis completed
Sara Mulvey, Graduate Fellow
Ashley McGurn
Kelley DeMarco

2006-2007 Jessica Martin (Graduate Fellow)
Amy Krager (independent study)

Handwriting Project (in collaboration with Nanho Vander Hart, Education)

2007-2008 Designed study, recruited participants
Collected data, approx 70 kindergarten children
Data collected fall, winter, spring
Nicole Gonzalez (Graduate Fellow)
Cassi Danzl (Graduate Fellow)
Cathryn Cortesa (Honors Program Undergraduate, Summer)

Handwriting Project (in collaboration with Nanho Vander Hart, Education)

2008-2009 Designed follow-up study, recruited participants
Collected data, approx 100 kindergarten children
Data collected fall, winter, spring
Marianne Kuncewicz (Graduate Fellow)
Anne Catalano (Undergraduate, Fall)
Megan Orbon (Undergraduate, Fall)
Courtney Carpenter (Undergraduate, Spring)
Jenna Crossman (Undergraduate, Spring)
Jillian O'Connor (Undergraduate, Spring)

Handwriting Project (in collaboration with Nanho Vander Hart, Education)

2009-2010 Planned 3-year follow-up study, collecting data from approx 160 1st and 2nd grade students,
conducting data coding and analysis
Julia Maslin White (Graduate Fellow)
Dana Oertel (Undergraduate, Independent Study, Fall 2009 & Spring 2010)
Allison Slavini (Undergraduate, Spring 2010)
Nicholas Giokas (Undergraduate, Summer 2010)

Social Coordination in Autism Study (in collaboration with Richard Schmidt, College of the Holy Cross)

2009-2010 designed research protocol for study
developed coding schemes for all dependent measures
collected pilot data with typically developing children
started data collection with typically developing children and children with autism
Rachel Diorio (Undergraduate, College of the Holy Cross)

Handwriting Project (in collaboration with Nanho Vander Hart, Education)

2010-current continued data collection 3-year follow-up study, collecting data from approx 160 2nd and 3rd
grade students, continuing data coding and analysis
Rachael Shelbourne (Graduate Fellow)
Kayla Farley (Graduate Fellow)
Caitlyn Coleman (Undergraduate Student)
Jennifer Gargan (Undergraduate Student)
Cora Derocher (Undergraduate Student)

Transition to Parenthood Study (in collaboration with Regina Keursten-Hogan and Maria Kalpidou, Psychology)

2010-2012 data coding of free play sessions between parents and 12-month old infants

preparing experimental session report letters for parents
Rachael Shelbourne (Graduate Fellow)

Social Coordination in Autism Study (in collaboration with Richard Schmidt, College of the Holy Cross)
2010-2011 continue data collection with typically developing children and children with autism
Rachel Diorio (Honors Program Undergraduate, College of the Holy Cross)
Rachael Shelbourne (Graduate Fellow)

Parent-Child Interactions and Tool Use (in collaboration with Maria Kalpidou, Psychology Department)
Summer 2011 developed coding scheme for child tool use behavior
developed coding scheme for emotional climate
developed coding scheme for parent-child interaction
used coding schemes to code snack time, free play, and spoon use session
Ashley Januszewski (Honors Program Undergraduate Student)

Relationship between Imitation and Parental Encouragement (in collaboration with Maria Kalpidou, Psychology Department)
Spring 2012 developed coding scheme for imitation
Summer 2012 developed coding scheme for encouragement and discouragement
used coding schemes to code free play, and pretend picnic experimental sessions
Jennifer Kneeland (Undergraduate Student)
Melysa Faria (Undergraduate Student)
Victoria Flynn (Undergraduate Student)
Michael McCabe (Undergraduate Student)
Ashley Januszewski (Honors Program Undergraduate Student)
Krista Tocco (Undergraduate Student)

Evaluating Movement Variability in Tool-using Tasks
Fall 2012 developed experimental stimuli for hammering task
Spring 2013 designed experimental protocol
Summer 2013 conducted data collection with adult and child participants
Fall 2013 conducted data entry and analysis
Andrea Garry (Honors Program Undergraduate Student)
Julianna Aguilar (Graduate Student)
Peter Bui (Undergraduate Student)

Evaluating Social Interactions in Children with Autism (in collaboration with Richard Schmidt, College of the Holy Cross, Michael Richardson, University of Cincinnati, Amie Duncan, Cincinnati Children's Hospital Medical Center)
Summer 2013 conducted data coding of social interactions of 50 children with autism and 50 without
Fall 2013 conducted data analysis of social interactions
Caitlyn Coleman (Undergraduate Student)
Andrea Garry (Honors Program Undergraduate Student)

Investigating Social Synchrony in Adolescents with Autism: Wrist Pendulum Paradigm Methodology (in collaboration with Richard Schmidt, College of the Holy Cross, Jean Frazier, UMMS)
Summer 2013 developed research protocol
Fall 2013 collected data
Spring 2014 Conducted data analysis and data entry
Caitlyn Coleman (Undergraduate Student)
Andrea Garry (Honors Program Undergraduate Student)
Peter Bui (Undergraduate Student)
Kayla Farley (Graduate Student)

Perceiving Movement Synchronization Deficits in Autism (Honors Thesis)
Summer 2014 developed research protocol
Fall 2014 collected data
Conducted data analysis

Katherine Schmidt (Honors Program Undergraduate Student)

Exploring Communication Patterns in Children with Autism

Summer 2014 transcriptions of experimental data sessions Social Motor Experimental Battery Videos
Fall 2014 Andrew Lampi (Honors Program Undergraduate Student)
Sara Edwards (Graduate Student)

Investigating Social Synchrony in Adolescents with Autism: EEG Piloting (in collaboration with Richard Schmidt, College of the Holy Cross, Jean Frazier, UMMS)

Summer 2014 piloting EEG research protocol
Fall 2014 Rachel Hickey (Undergraduate Student)
Spring 2015 Katherine Schmidt (Graduate Student)
Fall 2015