

# CURRICULUM VITAE

## RICHARD C. SCHMIDT

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### EDUCATION

University of Connecticut	B.A.	Psychology	1982
University of Connecticut	Ph.D.	Experimental Psychology	1988
CESPA, University of Connecticut	Post Doc	Interlimb Coordination	1991

### EMPLOYMENT

College of the Holy Cross	Professor	2010 – present
College of the Holy Cross	Associate Professor	1999 – 2010
College of the Holy Cross	Assistant Professor	1995 – 1999
Tulane University	Assistant Professor	1991 – 1995
University of Connecticut	Lecturer	1988 – 1989

### OTHER ACADEMIC APPOINTMENTS

University Montpellier	Associate Research Professor, EuroMov	2015 – present
CESPA, University of Connecticut	Research Fellow	1991 – present
College of the Holy Cross	Psychology Department Chair	2005 – 2008, 2018-2021
College of the Holy Cross	E. A. O'Rorke Professor in the Liberal Arts	2015 – 2019
LSU Department of Kinesiology	Adjunct Assistant Professor	1994 – 1995

### RESEARCH INTERESTS

Social Motor Coordination; Breakdown of Interpersonal Coordination in Autism and Schizophrenia; Time Series Analysis; Dynamical Theories of Coordination; Development of Coordinated Movements; Embodied and Embedded Theories of Meaning; Coordination of Speech and Gesture; Relationship of Movement Timing to Reading Skill

### COURSES TAUGHT

Research Methods; Statistics; Mindfulness, Meditation and Prayer; Connected Bodies, Coupled Minds; Cognition and Memory; Psychology of Music; Biology of Consciousness; Body, Emotion and Thought; Cognitive Neuroscience; Coordination of Movement

### EXTRAMURAL RESEARCH GRANTS

2013 – 2018      Principal Investigator. *Modeling the Behavioral Dynamics of Social Action and Coordination*. National Institutes of Health 1R01GM105045 (\$1.45 million in collaboration with Mike Richardson at the Cincinnati University and Elliot Saltzman at Boston University).

2013 – 2016      Scientific Advisor. *Enhancing Social Interaction with an Artificial Agent*. European Commission STREP FP7-ICT-2011-9 (in collaboration with researchers at the University Montpellier, Ecole Polytechnique Federale de Lausanne, Deutsches Forschungszentrum Fur Kuenstliche Intelligenz GmbH and the University of Bristol).

- 2013 – 2014 Co-Investigator. *Evaluating social synchrony in Autism Spectrum Disorder*. UMMS Department of Psychiatry and Assumption College Collaborative Pilot Research Program (\$10,000 granted in collaboration with Paula Fitzpatrick at Assumption College and Jean Frazier at University of Massachusetts Medical School).
- 2012 – 2014 Principal Investigator. *Evaluating the Time-Dependent Unfolding of Social Interactions in Children with Autism*. National Institutes of Health 1R21MH094659-01A1 (\$451,545 granted, in collaboration with Mike Richardson and colleagues at the Cincinnati University and Cincinnati University Medical School and Paula Fitzpatrick at Assumption College).
- 2010 – 2013 Co-Investigator. *Social Coordination in Agents with Deficits*. Agence Nationale De La Recherche ANR-09-BLAN-0405-01 (\$300,220 granted from the French government in collaboration with Benoit Bardy and Ludo Marin and colleagues at the University Montpellier, University of the Mediterranean, and University-Hospital of Montpellier).
- 2009 – 2010 Supplemental Award to *Collaborative Research (RUI): Perceptual Pick-up Processes in Interpersonal Coordination*. National Science Foundation RUI (\$17,794 granted).
- 2008 – 2012 Principal Investigator. *Collaborative Research (RUI): Perceptual Pick-up Processes in Interpersonal Coordination*. National Science Foundation BCS-0750187, BCS-0750190 (\$290,176 [\$171,359 + \$118,817] granted in collaboration with Mike Richardson at Colby College/University of Cincinnati).
- 2006 – 2007 Co-Investigator. *Assessing Synchrony as a Basis for Social Connection in Autism*. Innovative Technologies for Autism Bridge Grant, Cure Autism Now (\$9,967 granted in collaboration with Kerry Marsh and colleagues at the University of Connecticut).
- 2003 – 2006 Principal Investigator. *Collaborative Research (RUI): Informational Constraints on Interpersonal Coordination*. National Science Foundation BCS-0240277, BCS-0240266 (\$306,607 [\$111,710 + \$194,866] granted in collaboration with Carol Fowler and Kerry Marsh at the University of Connecticut).
- 2001 – 2002 Research Opportunity Award. *The Nonlinear Dynamical Methods Used in Coordination Dynamics* (\$50,000 granted through Michael Turvey (PI) at the University of Connecticut).
- 1992 – 1995 Principal Investigator. *Dynamic and Informational Constraints on Tool Usage*. Louisiana Board of Regents (\$107,000 granted).
- 1991 – 1994 Co-Principal Investigator. *Absolute and Relative Coordination*. National Science Foundation (\$142,967 granted in collaboration with M. T. Turvey at the University of Connecticut).

## PUBLICATIONS

92 journal articles, 12 book chapters, 2 edited volumes and 33 published conference reports

Citations ([Scopus](#)): *h-index* = 43, total citations > 6300 as of February 2022

Citations ([Google Scholar](#)): *h-index* = 53, total citations > 10800 as of January 2022

Journal Articles (\* denotes undergraduate student authorship)

- Mostafaoui, G., Schmidt, R. C., Hasnain, S. K., & Salesse, R. N. & Marin, L. (2022). Human unintentional and intentional interpersonal coordination in interaction with a humanoid robot. *PLoS ONE*, 17(1): e0261174. <https://doi.org/10.1371/journal.pone.0261174>
- Aubin, L. & Mostafaoui, G., Schmidt, R., Serré, H., & Marin, L. (2021). Effects of unintentional coordination on attentional load. *Human Movement Science*, 80, 102880.
- Modarres, M. H., Cochran, D., Kennedy, D., Schmidt, R., Fitzpatrick, P., & Frazier, J. (2021). Biomarkers based on comprehensive hierarchical EEG coherence analysis: Example application to social competence in autism. *Neuroinformatics*. 10.1007/s12021-021-09517-8.
- Aubin, L. & Mostafaoui, G., Amiel, C., Serré, H., Capdevielle, D., Menibus, M., Boiché, J., Schmidt, R. Raffard, S. & Marin, L. (2021). Study of coordination between patients with schizophrenia and socially assistive robot during physical activity. *International Journal of Social Robotics*, 7. 10.1007/s12369-021-00750-4.
- Dellapiazza, F., Michelon, C., Oreve, M. J., Robel, L., Schoenberger, M., Chatel, C., Vesperini, S. Maffre, T., Schmidt, R., Blanc, N., Vernhet, C., Picot, M. C., & Baghdadli, A. (2020). The impact of atypical sensory

- processing on adaptive functioning and maladaptive behaviors in autism spectrum disorder during childhood: Results from the ELENA cohort. *Journal of Autism and Developmental Disorders*, 50, 2142-2152.
- Lampi\*, A., Fitzpatrick, P. A., Romero, V., Amaral, J., & Schmidt, R. C. (2020). Understanding the influence of social and motor context on the co-occurring frequency of restrictive and repetitive behaviors in autism. *Journal of Autism and Developmental Disorders*, 50, 1479-1496.
- Schmidt, R. C. & Fitzpatrick, P. (2019). Embodied synchronization and complexity in a verbal interaction. *Nonlinear Dynamics, Psychology, and Life Sciences*, 23, 199-228.
- Fitzpatrick, P., Mitchell, T., Schmidt, R. C., Kennedy, D., & Frazier, J. (2019). Alpha band signatures of social synchrony. *Neuroscience Letters*, 699, 24-30.
- Dellapiazza, F., Baghdadli, A., Schmidt, R. C., Vernhet, C., Miot, S., & Blanc, N. (2019). Are there links between sensory processing, adaptive behaviours, and attention in children having an ASD? A systematic review. *Psychiatry Research*, 270, 78-88.
- Fitzpatrick, P., Frazier, J. A., Cochran, D. M., Mitchell, T., Coleman\*, C. & Schmidt, R. C. (2018). Relationship between theory of mind, emotion recognition, and social synchrony in adolescents with and without autism. *Frontiers in Psychology*, 9, 1337. doi: 10.3389/fpsyg.2018.01337
- Romero, V., Fitzpatrick, P., Roulier\*, S., Duncan, A., Richardson, M. J., & Schmidt, R. C. (2018). Evidence of embodied social competence in children with autism. *PLoS ONE*, 13(3), e0193906.
- Cohen, L., Khoramshahi, M., Salesse, R. N., Bortolon, C., Słowiński, P., Zhai, C., Tsaneva-Atanasova, K., Di Bernardo, M., Capdevielle, D., Marin, L., Schmidt, R. C., Bardy, B. G., Billard, A., & Raffard, S. (2017). Influence of facial feedback and mind perception during a cooperative human-robot task in schizophrenia. *Scientific Reports*, 7, 15023
- Varlet, M., Schmidt, R. C., & Richardson, M. J. (2017). Influence of stimulus velocity profile on visuomotor entrainment depends on eye movements. *Experimental Brain Research*, 235, 3279-3286.
- Fitzpatrick, P., Romero, V., Amaral, J., Duncan, A., Barnard, H., Richardson, M. J., & Schmidt, R. C. (2017). Evaluating the importance of social motor synchronization and motor skill for understanding autism. *Autism Research*, 10, 1687-1699.
- Fitzpatrick, P., Romero, V., Amaral, J., Duncan, A., Barnard, H., Richardson, M. J., & Schmidt, R. C. (2017). Social motor synchronization: Insights for understanding social behavior in autism. *Journal of Autism and Developmental Disorders*, 47, 2092-2107.
- Caron, R. R., Coey, C., Dhaim\*, A. & Schmidt, R. C. (2017). Investigating the social behavioral dynamics and differentiation of skill in a martial arts technique. *Human Movement Science*, 54, 253-266.
- Romero, V., Amaral, J., Fitzpatrick, P., Schmidt, R. C., Duncan, A., & Richardson, M. J. (2017). Can low-cost motion tracking systems substitute a Polhemus system when researching social motor coordination in children? *Behavior Research Methods*, 29, 588-601.
- Fitzpatrick, P., Frazier, J. A., Cochran, D. M., Mitchell, T., Coleman, C. & Schmidt, R. C. (2016). Impairments of social motor synchrony evident in Autism Spectrum Disorder. *Frontiers in Psychology*, 7, 1323. doi: 10.3389/fpsyg.2016.01323
- Varlet, M., Schmidt, R. C., & Richardson, M. J. (2016). Influence of internal and external noise on spontaneous visuomotor synchronization. *Journal of Motor Behavior*, 48, 122-131.
- Richardson, M. J., Harrison, S. J., Kallen, R. W., Walton, A., Eiler, B. A., Saltzman, E. & Schmidt, R. C. (2015). Self-organized complementary joint action: Behavioral dynamics of an interpersonal collision-avoidance task. *Journal of Experimental Psychology: Human Perception and Performance*, 41, 665-679.
- Zhao, Z., Salesse, R. N., Gueugnon, M., Schmidt, R. C., Marin, L. & Bardy, B. G. (2015). Moving attractive virtual agent improves interpersonal coordination stability. *Human Movement Science*, 41, 240-254.
- Varlet, M., Bucci\*, C., Richardson, M. J., & Schmidt, R. C. (2015). Constraints on spontaneous entrainment. *Human Movement Science*, 41, 265-281.
- Raffard, S., Salesse, R., Marin, L., Del-Monte, J., Schmidt, R. C., Varlet, M., Bardy, B. G., Boulenger, J. P. & Capdevielle, D. (2015). Social priming enhances interpersonal coordination and feeling of connectedness towards schizophrenia patients. *Scientific Reports*, 5, 8156. doi: 10.1038/srep08156
- Varlet, M., Coey, C., Schmidt, R. C., Marin, L., Bardy, B. G., & Richardson, M. J. (2014). Influence of stimulus velocity profile on rhythmic visuomotor coordination. *Journal of Experimental Psychology: Human Perception and Performance*, 40, 1849-1869.
- Washburn, A., DeMarco, M., de Vries, S., Ariyabuddhipongs, K., Schmidt, R. C., Richardson, M. J. & Riley, M. A. (2014). Dancers entrain more effectively than non-dancers to another actor's movements. *Frontiers in Human Neuroscience*, 8, 800. doi: 10.3389/fnhum.2014.00800
- Del-Monte, J., Raffard, S., Capdevielle, D., Salesse, R., Schmidt, R. C., Varlet, M., Bardy, B. G., Boulenger, J. P., Gély-Nargeot, M. C. & Marin, L. (2014) Social priming increases nonverbal expressive behaviors in schizophrenia. *PLoS ONE*, 9, e109139. doi:10.1371/journal.pone.0109139

- Schmidt, R. C., Nie, L., Franco\*, A. & Richardson, M. J. (2014). Bodily synchronization underlying joke telling. *Frontiers in Human Neuroscience*, 8, 633. doi: 10.3389/fnhum.2014.00633
- Varlet, M., Marin, L., Capdevielle, D., Del-Monte J., Schmidt, R. C., Salesse, R., Boulenger, J. P., Bardy, B. G. & Raffard, S. (2014). Difficulty leading interpersonal coordination: Towards an embodied signature of social anxiety disorder. *Frontiers in Behavioral Neuroscience*, 8, 29. doi: 10.3389/fnbeh.2014.00029
- Del-Monte, J., Raffard, S., Salesse, R., Marin, L., Schmidt, R. C., Varlet, M., Bardy, B. G., Boulenger, J. P., Gély-Nargeot, M. C. & Capdevielle, D. (2013). Nonverbal expressiveness behaviours in schizophrenia and social phobia. *Psychiatry Research*, 210, 29-35.
- Del-Monte, J., Capdevielle, D., Varlet, M., Marin, L., Salesse, R., Schmidt, R. C., Bardy, B. G., Boulenger, J. P., Gély-Nargeot, M. C., Attal, J. & Raffard, S. (2013). Social motor coordination in unaffected relatives of schizophrenia patients: A potential intermediate phenotype. *Frontiers in Behavioral Neuroscience*, 7:137. doi: 10.3389/fnbeh.2013.00137.
- Fitzpatrick, P. A., 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*, 7:12. doi: 10.3389/fnint.2013.00021.
- Marsh, K. L., Isenhower, R. W., Richardson, M. J., Helt, M., Schmidt, R. C., & Fein, D. (2013). Autism and social disconnection in interpersonal rocking. *Frontiers in Integrative Neuroscience*, 7:4. doi: 10.3389/fnint.2013.00004
- Kijima, A., Kadota, K., Yokoyama, K., Okumura, M., Suzuki, H., Schmidt, R. C., & Yamamoto, Y. (2012). Tit-for-tat switching dynamics in an interpersonal competition brings about “deadlock” synchronization of players. *PLoS ONE*, 7, e47911. doi: 10.1371/journal.pone.0047911
- Romero, V., Coey, C., Schmidt, R. C., & Richardson, M. J. (2012). Movement coordination or movement interference: Visual tracking and spontaneous coordination modulate rhythmic movement interference. *PLoS ONE*, 7, e44761. doi:10.1371/journal.pone.0044761
- Varlet, M., Marin, L., Issartel, J., Schmidt, R. C. & Bardy, B. G. (2012). Continuity of visual and auditory rhythms influences sensorimotor coordination. *PLoS ONE*, 7: e44082. doi:10.1371/journal.pone.0044082
- Schmidt, R. C., Morr\*, S., Fitzpatrick, P. A., & Richardson, M. J. (2012). Measuring the dynamics of interactional synchrony. *Journal of Nonverbal Behavior*, 36, 263-279.
- Varlet, M., Coey, C., Schmidt, R. C., & Richardson, M. J. (2012). Influence of stimulus amplitude on spontaneous visual coordination. *Human Movement Science*, 31, 541-552.
- Varlet, M., Marin, L., Raffard, S., Schmidt, R. C., Capdevielle, D., Boulenger, J. P., Del-Monte J. & Bardy, B. G. (2012). Impairments of social motor coordination in schizophrenia. *PLoS ONE*, 7, e29772. doi:10.1371/journal.pone.0029772
- Fitzpatrick, P. A., Wagman, J. B., & Schmidt, R. C. (2012). The role of action-relevant inertial properties in altering movement dynamics in a tool-use task. *Journal of Psychology*, 220, 23-28.
- Isenhower, R. W., Marsh, K. L., Richardson, M. J., Helt, M., Schmidt, R. C., & Fein, D. (2012). Rhythmic bimanual coordination is impaired in children with autism spectrum disorder. *Research in Autism Spectrum Disorders*, 6, 25-31.
- Schmidt, R. C., Fitzpatrick, P., Caron, R., & Mergeche\*, J. (2011). Understanding social motor coordination. *Human Movement Science*, 30, 834-845.
- Coey, C., Varlet, M., Schmidt, R. C., & Richardson, M. J. (2011). Effects of movement stability and congruency on the emergence of spontaneous interpersonal coordination. *Experimental Brain Research*, 211, 483-493.
- Marsh, K. L., Johnston, L., Richardson, M. J., & Schmidt, R. C. (2009). Hop off the mirror neuron bandwagon and join ours, it's less crowded! *European Journal of Social Psychology*, 39, 1234-1235.
- Marsh, K. L., Johnston, L., Richardson, M. J., & Schmidt, R. C. (2009). Toward a radically embodied, embedded social psychology. *European Journal of Social Psychology*, 39, 1217-1225.
- Hajnal, A., Richardson, M. J., Harrison, S. J., & Schmidt, R. C. (2009). Location but not amount of stimulus occlusion influences the stability of visuo-motor coordination. *Experimental Brain Research*, 199, 89-93.
- Marsh, K. L., Richardson, M. J., & Schmidt, R. C. (2009). Social connection through joint action and interpersonal coordination. *Topics in Cognitive Science*, 1, 320-339.
- Wagman, J. B., Carello, C., Schmidt, R. C. & Turvey, M. T. (2009). Is perceptual learning unimodal? *Ecological Psychology*, 21, 37-67.
- Richardson, M. J., Campbell\*, W., & Schmidt, R. C. (2009). Movement interference during action observation as emergent coordination. *Neuroscience Letters*, 449, 117-122.
- Richardson, M. J., Lopresti-Goodman, S. M., Mancini, M., Kay, B., & Schmidt, R. C. (2008). Comparing the attractor strength of intra- and inter-personal interlimb coordination using cross-recurrence analysis. *Neuroscience Letters*, 438, 340-345.
- Lopresti-Goodman, S. M., Richardson, M. J., Silva, P., & Schmidt, R. C. (2008). Period basin of entrainment for

- unintentional visual coordination. *Journal of Motor Behavior*, 40, 3-8.
- Haveran, L. A., Novitsky, Y. W., Czerniach, D. R., Kaban, G. K., Taylor, M., Gallagher-Dorval, K., Schmidt, R., Kelly, J. J., & Litwin, D. E. M. (2007). Optimizing laparoscopic task efficiency: the role of camera and monitor positions. *Surgical Endoscopy*, 21, 980-984.
- Richardson, M. J., Marsh, K. L., Isenhower, R., Goodman, J., & Schmidt, R. C. (2007a). Rocking together: Dynamics of intentional and unintentional interpersonal coordination. *Human Movement Science*, 26, 867-891.
- Schmidt, R. C. (2007). Apprehending the absent present. *Journal of Anthropological Psychology*, 18, 33-36.
- Schmidt, R. C., Richardson, M. J., Arsenault\*, C. A., & Galantucci, B. (2007). Visual tracking and entrainment to an environmental rhythm. *Journal of Experimental Psychology: Human Perception and Performance*, 33, 860-870.
- Schmidt, R. C. (2007). Scaffolds for social meaning. *Ecological Psychology*, 19, 137-151.
- Richardson, M. J., Schmidt, R. C., & Kay, B. A. (2007b). Distinguishing the noise and attractor strength of coordinated limb movements using recurrence analysis. *Biological Cybernetics*, 96, 59-78.
- Marsh, K. L., Richardson, M. J., Baron, R. M., & Schmidt, R. C. (2006). Contrasting approaches to perceiving and acting with others. *Ecological Psychology*, 18, 1-37.
- Richardson, M. J., Marsh, K. L., & Schmidt, R. C. (2005). Effects of visual and verbal interaction on unintentional interpersonal coordination. *Journal of Experimental Psychology: Human Perception and Performance*, 31, 62-79.
- Carello, C., LeVasseur\*, V., & Schmidt, R. C. (2002). Movement sequencing and phonological fluency in (putatively) nonimpaired readers. *Psychological Science*, 13, 376-380.
- Zaal, F. T., Bingham, G. P., & Schmidt, R. C. (2000). Visual perception of relative phase and phase variability. *Journal of Experimental Psychology: Human Perception and Performance*, 26, 1209-1220.
- Schmidt, R. C., O'Brien, B., & Sysko\*, R. (1999). Self-organization in between-person cooperative tasks and possible applications for sport. *International Journal of Sport Psychology*, 30, 558-579.
- Bingham, G. P., Schmidt, R. C., & Zaal, F. T. (1999). Visual perception of relative phasing of human limb movements. *Perception and Psychophysics*, 61, 246-258.
- Goldfield, E. C., Schmidt, R. C., & Fitzpatrick, P. A. (1999). Coordination of infant breathing. *Ecological Psychology*, 11, 209-232.
- Goldfield, E. C., Wolff, P. H., & Schmidt, R. C. (1999a). Dynamics of oral-respiratory coordination in full-term and preterm infants: I. Comparisons at 38 to 40 weeks postconceptional age. *Developmental Science*, 2, 363-373.
- Goldfield, E. C., Wolff, P. H., & Schmidt, R. C. (1999b). Dynamics of oral-respiratory coordination in full-term and preterm infants: II. Continuing effects at 3 months post-term. *Developmental Science*, 2, 374-384.
- Schmidt, R. C., Bienvenu, M., Fitzpatrick, P. A., & Amazeen, P. G. (1998). A comparison of within- and between-person coordination: Coordination breakdowns and coupling strength. *Journal of Experimental Psychology: Human Perception and Performance*, 24, 884-900.
- Schmidt, R. C., & O'Brien, B. (1997). Evaluating the dynamics of unintended interpersonal coordination. *Ecological Psychology*, 9, 189-206.
- Fitzpatrick, P. A., Schmidt, R. C., & Lockman, J. J. (1996). Dynamical patterns in the development of clapping. *Child Development*, 67, 2691-2708.
- 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.
- Bingham, G. P., Rosenblum, L. D., & Schmidt, R. C. (1995). Dynamics and the orientation of kinematic forms in visual event recognition. *Journal of Experimental Psychology: Human Perception and Performance*, 21, 1473-1493.
- Beek, P. J., Schmidt, R. C., Morris, A. W., Sim, M.-Y., & Turvey, M. T. (1995). Linear and nonlinear stiffness and friction in biological rhythmic movements. *Biological Cybernetics*, 73, 499-507.
- Amazeen, P. G., Schmidt, R. C., & Turvey, M. T. (1995). Frequency detuning of the phase entrainment dynamics of visually coupled rhythmic movements. *Biological Cybernetics*, 72, 511-518.
- Schmidt, R. C., & Turvey, M. T. (1995). Models of interlimb coordination: Equilibria, local analyses, and spectral patterning. *Journal of Experimental Psychology: Human Perception and Performance*, 21, 432-443.
- Fitzpatrick, P. A., Carello, C., Schmidt, R. C. & Corey, D. (1994). Haptic and visual perception of an affordance for upright posture. *Ecological Psychology*, 6, 265-287.
- Schmidt, R. C., & Turvey, M. T. (1994). Phase-entrainment dynamics of visually coupled rhythmic movements. *Biological Cybernetics*, 70, 369-376.
- Schmidt, R. C., Christianson\*, N., Carello, C., & Baron, R. (1994). Effects of social and physical variables on between-person visual coordination. *Ecological Psychology*, 6, 159-183.
- Kadar, E., Schmidt, R. C., & Turvey, M. T. (1993). Constants underlying frequency changes in biological rhythmic movements. *Biological Cybernetics*, 68, 421-430.

- Schmidt, R. C., Shaw, B. K., & Turvey, M. T. (1993). Coupling dynamics in interlimb coordination. *Journal of Experimental Psychology: Human Perception and Performance*, *19*, 397-415.
- Beek, P. J., Turvey, M. T., & Schmidt, R. C. (1992). Autonomous and nonautonomous dynamics in coordinated rhythmic movements. *Ecological Psychology*, *4*, 65-95.
- Sternad, D., Turvey, M. T., & Schmidt, R. C. (1992). Average phase difference theory and 1:1 phase entrainment in interlimb coordination. *Biological Cybernetics*, *67*, 223-231.
- Schmidt, R. C., & Turvey, M. T. (1992). Long term consistencies in assembling coordinated rhythmic movements. *Human Movement Science*, *11*, 349-376.
- Schmidt, R. C., Treffner, P. J., Shaw, B. K., & Turvey, M. T. (1992). Dynamical aspects of learning an interlimb rhythmic coordination. *Journal of Motor Behavior*, *24*, 67-82.
- Schmidt, R. C., Beek, P. J., Treffner, P. J., & Turvey, M. T. (1991). Dynamical substructure of coordinated rhythmic movements. *Journal of Experimental Psychology: Human Perception and Performance*, *17*, 635-651.
- Bingham, G. P., Schmidt, R. C., Turvey, M. T., & Rosenblum, L. D. (1991). Task dynamics and resource dynamics in the assembly of a coordinated rhythmic activity. *Journal of Experimental Psychology: Human Perception and Performance*, *17*, 359-381.
- Schmidt, R. C., Treffner, P. J., & Turvey, M. T. (1991). Neural networks and the first and second rounds of theorizing on Bernstein's problem. *Human Movement Science*, *10*, 117-131.
- Kugler, P. N., Turvey, M. T., Schmidt, R. C., & Rosenblum, L. D. (1990). Investigating a nonconservative invariant of motion in coordinated rhythmic movements. *Ecological Psychology*, *2*, 151-189.
- Schmidt, R. C., Carello, C., & Turvey, M. T. (1990). Phase transitions and critical fluctuations in the visual coordination of rhythmic movements between people. *Journal of Experimental Psychology: Human Perception and Performance*, *16*, 227-247.
- Turvey, M. T., Schmidt, R. C., & Rosenblum, L. D. (1989). "Clock" and "Motor" components in absolute coordination of rhythmic movements. *Neuroscience*, *33*, 1-10.
- Bingham, G. P., Schmidt, R. C., & Rosenblum, L. D. (1989). Hefting for a maximum distance throw: A smart perceptual mechanism. *Journal of Experimental Psychology: Human Perception and Performance*, *15*, 507-528.
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- Turvey, M. T., Rosenblum, L. D., Schmidt, R. C., & Kugler, P. N. (1986). Fluctuations and phase symmetry in coordinated rhythmic movement. *Journal of Experimental Psychology: Human Perception and Performance*, *12*, 564-583.

#### Book Chapters

- Romero, V., Fitzpatrick, P., Schmidt, R. C., & Richardson, M. J. (2016). Using cross-recurrence quantification analysis to understand social motor coordination in children with Autism Spectrum Disorder. In C. L. Webber, Jr., C. Ioana & N. Marwan (Eds.), *Recurrence Plots and Their Quantifications: Expanding Horizons, Springer Proceedings in Physics 180* (pp. 227-240). Heidelberg: Springer.
- Schmidt, R. C. & Fitzpatrick, P. A. (2016). The origin of the ideas of interpersonal synchrony and synergies. In P. Passos, K. Davids & C. J. Yi (Eds.), *Interpersonal coordination and performance in social systems* (pp. 17-31). London: Routledge.
- Del-Monte, J., Raffard, S., Capdevielle, D., Schmidt R. C., Varlet, M., Salesse, R, N., Bardy, B. G., Boulanger, J. P., Gély-Nargeot, M. C., & Marin, L. (2016). Impact of mental disorders on social motor behaviors. In P. Passos, K. Davids & C. J. Yi (Eds.), *Interpersonal coordination and performance in social systems* (pp. 211-225). London: Routledge.
- Richardson, M. J., Marsh, K. L., & Schmidt, R. C. (2010). Challenging the egocentric view of perceiving, acting, and knowing. In L. Feldman Barrett, B. Mesquita, & E. Smith (Eds), *The mind in context* (pp. 307-333). New York: Guilford Press.
- Schmidt, R. C., & Richardson, M. J. (2008). Dynamics of interpersonal coordination. In A. Fuchs & V. Jirsa (Eds.), *Coordination: Neural, Behavioral and Social Dynamics* (pp. 281-308). Heidelberg: Springer-Verlag.
- Schmidt, R. C., & O'Brien, B. (1998). Modeling interpersonal coordination dynamics: Implications for a dynamical theory of developing systems. In P. C. Molenaar & K. Newell (Eds.), *Dynamics Systems and Development: Beyond the metaphor* (pp. 221-240). Hillsdale, NJ: Erlbaum.
- Mitra, S., Riley, M. A., Schmidt, R. C. & Turvey, M. T. (1998). Vision and the levels of synergies. In L. H. Harris, & M. Jenkin (Eds.), *Vision and Action* (pp. 314-331). Cambridge: Cambridge University Press.

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- Schmidt, R. C., & Turvey, M. T. (1989). Absolute coordination: An ecological perspective. In S. A. Wallace (Ed.), *Perspectives on the coordination of movement* (pp. 123-156). Amsterdam: North-Holland.

#### Edited Books

- Richardson, M. J., Schmidt, R., Dale, R., Kallen, R. & Raczaszek-Leonardi, J. (Eds.) (2018). Dynamics of joint-action, social coordination and multi-agent activity. *Frontiers in Psychology* (eBook), ISBN 978-2-88945-420-4.
- Burton, G. A. & Schmidt, R. C. (Eds.) (2001). *Studies in perception and action VI*. Mahwah, NJ: Erlbaum.

#### Published Conference Proceedings

- Richardson, M. J., Kallen, R. W., Nalepka, P., Harrison, S. J., Lamb, M., Chemero, A., Saltzman, E., & Schmidt, R. C. (2016). Modeling embedded interpersonal and multiagent coordination. In V. M. Munoz, O. Gusikhin, & V. Chang (Eds.), *Proceedings of the 1st international conference on complex information systems (COMPLEXIS)* (pp. 155-164). Setubal, Portugal: Scitepress.
- 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. A. Weast-Knapp, M. Malone, & D. H. Abney, *Studies in Perception and Action XIII*. 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. A. Weast-Knapp, M. Malone, & D. H. Abney, *Studies in Perception and Action XIII*. New York, NY: Psychology Press, Taylor & Francis Group.
- Schmidt, R. C., & Fitzpatrick, P. A. (2014). Understanding the motor dynamics of interpersonal interactions. *Proceedings of the 2014 IEEE International Conference on Systems, Man and Cybernetics (SMC)*, 760 - 764
- 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. Davis, P. Passos, M. Dicks & J. A. Weast-Knapp (Eds.), *Studies in Perception & Action XII* (pp. 1-4). New York, NY: Psychology Press, Taylor & Francis Group.
- Hallahan, M., Borders\*, J., & Schmidt, R. C. (2013). Does motor synchrony really create interpersonal cooperation? In T. Davis, P. Passos, M. Dicks & J.A. Weast-Knapp (Eds.), *Studies in Perception & Action XII* (pp. 24-28). New York, NY: Psychology Press, Taylor & Francis Group.
- Del-Monte, J., Varlet, M., Raffard, S., Capdevielle, D., Salesse, R. N., Schmidt, R. C., Bardy, B., Boulenger, J-P., & Marin, L. (2013). Social motor coordination in unaffected relatives of schizophrenia patients: a new endophenotype ? In T. Davis, P. Passos, M. Dicks & J. A. Weast-Knapp (Eds.), *Studies in Perception & Action XII* (pp. 24-28). New York, NY: Psychology Press, Taylor & Francis Group.
- Salesse, R. N., Del-Monte, J., Raffard, S., Capdevielle, D., Varlet, M., Schmidt, R. C., Boulenger, J-P., Bardy, B., & Marin, L. (2013). Effect of social priming on interpersonal coordination: a comparative study with schizophrenia patients. In T. Davis, P. Passos, M. Dicks & J. A. Weast-Knapp (Eds.), *Studies in Perception & Action XII* (pp. 38-41). New York, NY: Psychology Press, Taylor & Francis Group.
- 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), S20-21.
- Richardson, M. J., Kallen, R. W., Coey, C., Harrison, S. J., & Schmidt, R. C. (2012). Interpersonal and team coordination: Perception-action processing vs. perception-action dynamics. *Journal of Sport and Exercise*

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- Schmidt, R. C. (2012). Creating a dialog between perspectives on interpersonal motor coordination. *Journal of Sport and Exercise Psychology*, 34 (supplement), S19-20.
- Richardson, M. J., Harrison, S. J., May, R., Kallen, R. W. & Schmidt, R. C. (2011). Self-organized complementary coordination: Dynamics of an interpersonal collision-avoidance task. *BIO Web of Conferences*, 1, 00075. doi: 10.1051/bioconf/20110100075
- Varlet, M., Marin, L., Raffard, S., Schmidt, R. C., Capdevielle, D., Boulenger, J. P., Del-monte, J. & Bardy, B. G. (2011). Disorders of social motor coordination in schizophrenia. *BIO Web of Conferences*, 1, 00091. <http://dx.doi.org/10.1051/bioconf/20110100091>
- Schmidt, R. C., Bucci\*, C. & Richardson, M. J. (2011). Constraints on spontaneous entrainment. *BIO Web of Conferences*, 1, 00081. doi: <http://dx.doi.org/10.1051/bioconf/20110100081>
- Coey, C. A., Varlet, M., Schmidt, R. C., Richardson, M. J. (2011). Agency and rhythmic coordination: Are we naught but moving dots? In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society* (pp. 172 - 177). Austin, TX: Cognitive Science Society.
- Varlet, M., Marin, L., Issartel, J., Schmidt, R. C. & Bardy, B. G. (2011). Sensorimotor synchronization with discrete or continuous slow stimulus. In E. Charles & L. J. Smart (Eds.), *Studies in Perception and Action XI*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Salesse, R. N., Ntoloopoulou, M., Schmidt, R. C., Lagarde, J., Chaminade, T. & Marin, L. (2011). "Do what I say, not what I do": Increased motor resonance with real than artificial agent during non-instructed coordination task. In E. Charles & L. J. Smart (Eds.), *Studies in Perception and Action XI*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Schmidt, R. C. & Morr\*, S. (2010). Coordination dynamics of natural social interactions. *International Journal of Sport Psychology*, 41, 105-106.
- Isenhower, R. W, Marsh, K. L., Silva, P. L., Richardson, M. J., & Schmidt, R. C. (2009). The inter- and intra-personal coordination in autistic and typically-developing children. In J. B. Wagman & C. C. Pagano (Eds.), *Studies in perception and action X*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Lopresti-Goodman, S. M., Mancini, M., Schmidt, R. C., Kay, B., & Richardson, M. J. (2007). Comparing the attractor strength of intra- and inter-personal interlimb coordination. In S. Cummins-Sebree, M. Riley, & K. Shockley (Eds.), *Studies in perception and action IX: Fourteenth International Conference on Perception and Action* (pp. 83-86). Mahwah, NJ: Lawrence Erlbaum Associates.
- Goodman J. R. L., Isenhower, R. W, Marsh, K. L., Schmidt, R. C., & Richardson, M. J. (2005). The interpersonal phase entrainment of rocking chair movements. In H. Heft & K. L. Marsh (Eds.), *Studies in perception and action VIII: Thirteenth International Conference on Perception and Action* (pp. 49-53). Mahwah, NJ: Lawrence Erlbaum Associates.
- Schmidt, R. C. & Rhodes, T. (2002). Short and long time scale components of rhythmic movement variability. *Abstracts of the Psychonomic Society*, Vol. 7, 157.
- Schmidt, R. C. (1998). Dynamical models of coordinated rhythmic movements. *Journal of Sport and Exercise Psychology*, 20 (supplement), S51.
- Zaal, F. T. & Schmidt, R. C. (1997). Visual perception of the relative phase of human limb movements. In M. Schmuckler (Ed.), *Studies in Perception and Action IV: Posters presented at the 9th International Conference on Perception and Action*. Hillsdale, NJ: Erlbaum.
- Schmidt, R. C. & McGregor\*, K. (1997). The auditory coordination of between-person rhythmic movements. In M. Schmuckler (Ed.), *Studies in Perception and Action IV: Posters presented at the 9th International Conference on Perception and Action*. Hillsdale, NJ: Erlbaum.
- Zaal, F.T., Bingham, G.P. & Schmidt, R. C. (1996). Visual perception of mean relative phase and phase variability. *Abstracts of the Psychonomic Society*, Vol. 1, 26.
- Bingham, G.P., Schmidt, R.C. & Zaal, F. (1996). Visual perception of relative phase. *Abstracts of the Psychonomic Society*, Vol. 1, 39.
- O'Brien, B. & Schmidt, R. C. (1995). The dynamics of unintentional interpersonal entrainment. In Benoit Bardy, Reinoud Bootsma & Yves Guiard (Eds.), *Studies in Perception and Action III: Posters presented at the 8th International Conference on Event Perception and Action*. Hillsdale, NJ: Erlbaum.
- Schmidt, R. C., Corey, D., Fitzpatrick, P. & Riley, M. (1995). The oscillatory basis of Fitts' law. In Benoit Bardy, Reinoud Bootsma & Yves Guiard (Eds.), *Studies in Perception and Action III: Posters presented at the 8th International Conference on Event Perception and Action*. Hillsdale, NJ: Erlbaum.
- Schmidt, R. C., Christianson\*, N. & Carello, C. (1993). Effects of social and physical variables on between-person coordination. In S. Stavros Valenti & J. B. Pittenger (Eds.), *Studies in Perception and Action II: Posters presented at the 7th International Conference on Event Perception and Action*. Hillsdale, NJ: Erlbaum.
- Fitzpatrick, P. A., Schmidt, R. C., Carello, C., & Turvey, M. T. (1991). Exploratory movements underlying the

haptic perception of orientation. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in Perception and Action I: Posters presented at the 6th International Conference on Event Perception and Action*. Amsterdam: Rodopi.

Kadar, E. E., Schmidt, R. C., & Turvey, M. T. (1991). Holonomic constraints on coordinated rhythmic movements. In P. J. Beek, R. J. Bootsma, & P. C. W. van Wieringen (Eds.), *Studies in Perception and Action I: Posters presented at the 6th International Conference on Event Perception and Action*. Amsterdam: Rodopi.

#### Papers under review

Varlet, M., Nozaradan, S., Schmidt, R. C., Keller, P. E. (under review) Neural tracking of observed human periodic movements. *Experimental Brain Research*.

## **PRESENTATIONS**

### Invited Papers/Colloquia

Fitzpatrick, P. A. & Schmidt, R. C. Understanding autism through the lens of social synchrony: Potential behavioural and neural biomarkers. Invited colloquium at the University of Sussex, Brighton, UK, July 2019.

Schmidt, R. C. Discussion of Papers Presented at the Exploratory Actions and the Development of Acting with Others Symposium. Paper presented at the 86th Anniversary Meeting of the Society for Research in Child Development, Baltimore, MD, March, 2019.

Schmidt, R. C. The multi-scaled character of natural interpersonal coordination dynamics. Invited lecture at Institute for Advanced Studies, University of Cergy-Pontoise, Paris, France, July 2018.

Schmidt, R. C. & Fitzpatrick, P. A. Social motor coordination as a means for understanding social competence in pathology. Invited colloquium at Commonwealth Research Center, Beth Israel Deaconess Medical Center, Boston, MA, March 2018.

Schmidt, R. C. Motricity and social synchronization in ASD. Invited paper presented at the ELENA Workshop : Déterminants des évolutions dans l'autisme at CHU Montpellier, Montpellier University, Montpellier, France, September 2017.

Fitzpatrick, P. A. & Schmidt, R. C. Social motor coordination as a means for understanding social competence in pathology. Invited colloquium for Grand Rounds, University of Massachusetts Medical School, Worcester, MA, October 2016.

Schmidt, R. C. & Fitzpatrick, P. A. Means of understanding social competence in Autism Spectrum Disorder. Invited paper presented at the AlterEgo European Workshop: Contemporary Technologies for Mental Health, University of Montpellier, Montpellier, France, September 2016.

Schmidt, R. C. Breaking symmetry in conversation. Invited paper presented at the 14th European Workshop on Ecological Psychology, Groningen, Netherlands, July 2016.

Schmidt, R. C. Intentional and unintentional social motor coordination in schizophrenia. Invited paper presented in a symposium entitled "Potential Biomarkers of Social Cognition in Autism and Schizophrenia" at the 62nd Annual Meeting of the American Academy of Child and Adolescent Psychiatry in San Antonio, TX, October 2015.

Schmidt, R. C. Multi-scaled coordination dynamics in natural interpersonal tasks. Invited paper presented at Conference on Complex Systems, Tempe, AZ, October 2015.

Schmidt, R. C., Fitzpatrick, P., Roulier\*, S. & Carley\*, C. Grounding fractal scaling in structured conversation tasks. Invited paper presented at The Guy Van Orden UConn Workshop on Cognition and Dynamics X, University of Connecticut, Storrs, CT, August 2015.

Schmidt, R. C. Social Motor Coordination: A Means for Understanding Social Competence in Autism and Schizophrenia. Invited colloquium the University Department of Adult Psychiatry, Hopital de la Colombiere, CHU Montpellier, Montpellier University, Montpellier, France, April 17, 2015.

Schmidt, R. C. Interpersonal coordination dynamics: Intermittency, symmetry breaking and time scales. Invited colloquium the EuroMov Center, University of Montpellier, Montpellier, France, April 16, 2015.

Caron, R. R., Coey, C., Dhaim\*, A. & Schmidt, R. C. Competitive sport tasks. Invited paper at the Modeling Social Coordination & Joint-Action Workshop, Center for Cognition, Action & Perception University of Cincinnati, Feb 27-28th, 2015.

Schmidt, R. C. & Richardson, M. J. Structured conversational interactions. Invited paper at Modeling Social Coordination & Joint-Action Workshop, Center for Cognition, Action & Perception University of Cincinnati, Feb 27-28th, 2015.

Schmidt, R. C. Interpersonal coordination dynamics: Intermittency, symmetry breaking and time scales. Invited colloquium at the Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs,

- CT, February 20, 2015.
- Schmidt, R. C. & Fitzpatrick, P. Understanding the motor dynamics of interpersonal interactions. Invited paper presented at *2014 IEEE International Conference on Systems, Man, and Cybernetics*, San Diego, CA, October 2014.
- Nie, L. & Schmidt, R. C. Interactional synchrony underlying joke telling. Invited paper presented at The Guy Van Orden UConn Workshop on Cognition and Dynamics IX, University of Connecticut, Storrs, CT, August 2014.
- Nie, L. & Schmidt, R. C. Bodily synchronization underlying joke telling. Invited colloquium at the Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, CT, April 2014.
- Schmidt, R. C., Fitzpatrick, P. & Marin, L. 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.
- Schmidt, R. C. & Fitzpatrick, P. Advancing understanding of social motor coordination in schizophrenia and autism using dynamical measures. Invited colloquium at Center for Comparative NeuroImaging, University of Massachusetts Medical School, Worcester, MA, September 2012.
- Schmidt, R. C. Creating a dialog between perspectives on interpersonal motor coordination. Invited paper presented at the Conference of the North American Society for the Psychology of Sport and Physical Activity, Honolulu, Hawaii, June 2012.
- Schmidt, R. C. Evaluating dynamical synchrony in structured conversation tasks. Invited colloquium at Center for Cognition, Action and Perception, University of Cincinnati, Cincinnati, OH, April 2012.
- Schmidt, R. C. Evaluating social motor dynamics: Natural tasks and new methods. Invited colloquium at Center for Cognitive Systems, University of Toulouse, Toulouse, France, March 2012.
- Schmidt, R. C. Evaluating social motor dynamics: Natural tasks and new methods. Invited colloquium at the Department of Cognitive, Linguistic and Psychological Science, Brown University, Providence, RI, February 2012.
- Richardson, M. J., & Schmidt, R. C. The dynamics of movement interference. Invited paper presented at the 16<sup>th</sup> International Conference on Perception and Action, Ouro Preto, Brazil, July 2011.
- Schmidt, R. C. Social motor coordination: Coordinated bodies, coordinated minds. Invited colloquium at the Center for Human Movement Sciences, University of Groningen, Groningen, Netherlands, October, 2010.
- Schmidt, R. C. Social motor coordination: Coordinated bodies, coordinated minds. Invited colloquium at the Faculty of Human Movement Sciences, VU University, Amsterdam, Netherlands, October, 2010.
- Schmidt, R. C. Sharing Time and Sharing Minds: The Dynamics and Import of Social Motor Coordination. Invited brownbag colloquium at the College of the Holy Cross, Worcester, MA, October, 2009.
- Schmidt, R. C. Sharing minds: Synchronization and mental connectedness. Lecture given as part of master class entitled Sharing Time and Sharing Minds: The Dynamics and Import of Social Motor Coordination at Technical University of Lisbon, Lisbon, Portugal, June, 2009.
- Schmidt, R. C. Sharing meanings: Social affordances. Lecture given as part of master class entitled Sharing Time and Sharing Minds: The Dynamics and Import of Social Motor Coordination at Technical University of Lisbon, Lisbon, Portugal, June, 2009.
- Schmidt, R. C. Sharing time II: Constraints on synchronization dynamics. Lecture given as part of master class entitled Sharing Time and Sharing Minds: The Dynamics and Import of Social Motor Coordination at Technical University of Lisbon, Lisbon, Portugal, June, 2009.
- Schmidt, R. C. Sharing time I: Social synchronization dynamics. Lecture given as part of master class entitled Sharing Time and Sharing Minds: The Dynamics and Import of Social Motor Coordination at Technical University of Lisbon, Lisbon, Portugal, June, 2009.
- Schmidt, R. C. Understanding social motor coordination. Keynote paper presented at the 2009 European Workshop on Movement Science, Lisbon, Portugal, June, 2009.
- Schmidt, R. C. Panelist in symposium on how to apply to graduate schools to study human movement science. 5<sup>ème</sup> journée de l'Ecole Doctorale Sciences du Mouvement Humain, Marseille, France, May 2009
- Schmidt, R. C. Dynamic patterns of social motor coordination. Invited colloquium at the Laboratoire de Efficience et Déficience Motrice, University of Montpellier 1, Montpellier, France, May, 2009.
- Schmidt, R. C. Deconstructing interpersonal synchrony. Paper presented at A Natural-Physical Perspective on Perception-Action-Cognition: The Turvey Transition Conference, University of Connecticut, June, 2008.
- Schmidt, R. C. Interpersonal coordination dynamics. Paper presented at Behavioral and Cognitive Dynamics Workshop, Cornell University, Ithaca, NY, August, 2007.
- Schmidt, R. C. Dynamics of interpersonal coordination. Paper presented at National Science Foundation, Washington, DC, April, 2007.
- Marsh, K. L., Richardson, M. J. & Schmidt, R. C. Social connection through joint action and interpersonal coordination. Paper presented at the 2nd Joint Action Meeting, Rutgers University, Newark, NJ, April, 2007.

- Schmidt, R. C. Dynamics of interpersonal coordination. Paper presented at Coordination Dynamics 2007 Conference, Florida Atlantic University, Boca Raton, FL, February, 2007.
- Schmidt, R. C. Dynamics of interpersonal coordination. Invited colloquium at the Laboratoire de Efficiency et Déficience Motrice, University of Montpellier 1, Montpellier, France, November, 2006.
- Schmidt, R. C. Scaffolds for Social Meaning. Paper presented at the 13<sup>th</sup> International Conference on Perception and Action. Monterey, CA, July 2005.
- Schmidt, R. C., Richardson, M. J., & Marsh, K. L. The self-organization of interpersonal perception-action systems. Paper presented at the 1st Joint Action Meeting, Rutgers University, Newark, NJ, April, 2005.
- Schmidt, R. C. The structure of noise. Invited colloquium at the Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, CT, April, 2002.
- Schmidt, R. C. Fractal structure of variability in behavioral tasks. Invited colloquium at the Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, CT, March, 2002.
- Schmidt, R. C. Dynamics of synchrony (or how people are like fireflies). Invited colloquium at the Department of Psychology, Arizona State University, Tempe, AZ, November, 2000.
- Schmidt, R. C., Sysko\*, R., Litwin, D., & Gallagher, K. Perceptual-motor coordination and handedness in endoscopic surgery. Invited colloquium at the Department of Exercise Science, Arizona State University, Tempe, AZ, November, 2000.
- Schmidt, R. C. Remote-sensing feedback constraints on aiming movements. Invited paper presented at Biomedical Engineering and Minimally Invasive Surgery Symposium, UMASS Medical School, Worcester, MA, February, 1999.
- Schmidt, R. C. Dynamical models of coordinated rhythmic movements. Invited paper presented at the Conference of the North American Society for the Psychology of Sport and Physical Activity, Chicago, June, 1998.
- Schmidt, R. C. Dynamic modes of coordination. Invited colloquium at the Psychology Department, Miami University, Oxford, OH, February, 1998.
- Schmidt, R. C. The oscillatory basis of Fitts' Law. Invited colloquium at the Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, CT, October, 1995.
- Schmidt, R. C. Dynamical modes of coordination in intelligent systems. Invited colloquium at the College of the Holy Cross, Worcester, MA, February, 1995.
- Schmidt, R. C. Modeling interpersonal coordination dynamics: Developmental implications. Invited paper presented at Dynamical Systems in Development Conference, Pennsylvania State University, October, 1994.
- Schmidt, R. C. Muscles as springs and dances we can and cannot do. Invited colloquium at Northeast Louisiana University, Monroe, LA, March, 1994.
- Schmidt, R. C. Effects of frequency scaling and frequency detuning on the breakdown of coordinated rhythmic movements. Invited colloquium at the Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, CT, March, 1994.
- Schmidt, R. C. Constraints on between-person coordination: Dynamical and other. Invited colloquium at the Center for Complex Systems, Florida Atlantic University, Boca Raton, FL, February, 1994.
- Schmidt, R. C. Coupling dynamics in coordinated rhythmic movements. Invited colloquium at Louisiana State University Department of Kinesiology, Baton Rouge, LA, April, 1993.
- Schmidt, R. C., O'Brien, B., & Fitzpatrick, P. A. The coordination of action within and between people: Are oscillatory dynamics involved? Invited paper presented at the Fourteenth Annual Conference of the Cognitive Science Society, Indiana University, Bloomington, IN, July, 1992.
- Schmidt, R. C., Bienvenu, M., O'Brien, B., Fitzpatrick, P. A., & Carello, C. Coupling dynamics in the coordination of rhythmic limb movements between people. Invited paper presented at HFSP Conference on The control and modulation of patterns of interlimb coordination: A multidisciplinary perspective, Leuven, Belgium, June, 1992.
- Schmidt, R. C. Information and learning in coordination dynamics. Invited colloquium at University of New Orleans Department of Psychology, New Orleans, LA, September, 1991.
- Schmidt, R. C. Dynamical constraints on the coordination of rhythmic movements between two people. Invited colloquium at Haskins Laboratories, New Haven CT, October, 1988.

#### Conference Papers

- Schmidt, R. C. & Fitzpatrick, P. A. Bodily synchrony as an index of social ability and affiliation in interviews. . Paper presented at the Seventh Joint Action Meeting. Genoa, Italy, July, 2019.
- Schmidt, R. C. & Fitzpatrick, P. A. Bodily synchrony as an index of social ability and affiliation in interviews. Paper presented at the 20th International Conference on Perception and Action. Groningen, Netherlands, July, 2019.

- Schmidt, R. C. Synchronization dynamics underlie coordination in natural joint actions. Paper presented at the Seventh Joint Action Meeting. London, England, July, 2017.
- Fitzpatrick, P. A., Lampi, A., Campbell, S., Romero, V., Amaral, J., Richardson, M. J. & Schmidt, R. C. The influence of social and motor context on communication and restricted and repetitive behaviors in autism. Paper presented at the Seventh Joint Action Meeting. London, England, July, 2017.
- Schmidt, R. C. Synchronization dynamics underlie coordination in natural joint actions. Paper presented at the 19th International Conference on Perception and Action. Seoul, Korea, July, 2017.
- Fitzpatrick, P., Mitchell, T., Frazier, J. A. & Schmidt, R. C. The neural basis of social synchronization: Implications for understanding social competence. Paper presented at the 14th European Workshop on Ecological Psychology, Groningen, Netherlands, July 2016.
- Schmidt, R. C. Breaking symmetry in conversation. Paper presented at the 14th European Workshop on Ecological Psychology, Groningen, Netherlands, July 2016.
- Caron, R. R., Coey, C. A. & Schmidt, R. C. Investigating the behavioral dynamics and differentiation of skill in a martial arts technique. Paper presented at 2016 North American Meeting of the International Society for Ecological Psychology, Clemson University, Clemson, SC, June, 2016.
- Schmidt, R. C. Breaking symmetry in conversation. Paper presented at 2016 North American Meeting of The International Society for Ecological Psychology, Clemson University, Clemson, SC, June, 2016.
- Romero, V., Fitzpatrick, P., Schmidt, R. C., & Richardson, M. J. Using social communication dynamics measures for diagnostic purposes in adolescents with autism spectrum disorder. Oral presentation at the 2016 International Meeting for Autism Research. Baltimore, MD, May, 2016.
- Romero, V., Fitzpatrick, P., Schmidt, R. C., & Richardson, M. J. The dynamics of social communication in adolescents with Autism Spectrum Disorder. Oral presentation at the 4th Bi-Annual Meeting of the Society for Complex Systems in Cognitive Science. Pasadena, CA, July, 2015.
- Schmidt, R. C. Time, embedded meaning and ecological science. Paper presented at the 18<sup>th</sup> International Conference on Perception and Action. Minneapolis, USA, July, 2015.
- Gueugnon, M., Salesse, R. N., Bardy, B. G., Zhao, Z., Schmidt, R. C., & Marin, L. Enhancing socio-motor competences: Impact of behavioural matching and behavioural synchrony. Paper presented at the 18th International Conference on Perception and Action. Minneapolis, USA, July, 2015.
- Marin, L., Salesse, R. N., Bortolon, R. N., Gueugnon, M., Zhao, Z., Raffard, S., Capdevielle, D., Schmidt, R. C., Schmitz, N., Henriques, J., Stricker, D., Di Bernardo, M., Tsaneva-Atanasova, K., Slowinski, P. Zhai, C. & Bardy, B. G. Does similarity promote social interaction in schizophrenia? Paper presented at the 18<sup>th</sup> International Conference on Perception and Action. Minneapolis, USA, July, 2015.
- Schmidt, R. C. Causality in entrainment explanations of joint action. Paper presented at the Sixth Joint Action Meeting. Budapest, Hungary, July, 2015.
- Fitzpatrick, P. A., Mitchell, T., Frazier, J. A., Cochran, D., Coleman, C. & Schmidt, R. C. Exploring the behavioural and neural processes of joint action in individuals with and without social deficits. Paper presented at the Sixth Joint Action Meeting. Budapest, Hungary, July, 2015.
- Romero, V., Fitzpatrick, P. A., Schmidt, R. C. & Richardson, M. J. Computational measurement of social communication dynamics in adolescents with autism spectrum disorder. Paper presented at the Sixth Joint Action Meeting. Budapest, Hungary, July, 2015.
- Romero, V., Fitzpatrick, P., Schmidt, R. C., & Richardson, M. J. (2015). Using Cross-Recurrence Quantification Analysis to Understand Social Motor Coordination in Children with Autism Spectrum Disorder. Oral presentation at the sixth International Symposium on Recurrence Plots. Grenoble, France.
- Marin, L., Salesse, R. N., Bortolon, R. N., Gueugnon, M., Zhao, Z., Raffard, S., Capdevielle, D., Schmidt, R. C., Schmitz, N., Henriques, J., Stricker, D., Di Bernardo, M., Tsaneva-Atanasova, K., Slowinski, P. Zhai, C. & Bardy, B. G. The effect of similarity to enhance socio-motor performance in schizophrenia. Paper presented at the Sixth Joint Action Meeting. Budapest, Hungary, July, 2015.
- Gueugnon, M., Salesse, R. N., Marin, L., Zhao, Z., Schmidt, R. C., Coste, A., & Bardy, B. G. Effect of similarity exposure on socio-motor competences. Paper presented at the 13th European Workshop on Ecological Psychology, Lusty Beg, Northern Ireland, June 2014.
- Zhao, Z., Salesse, R. N., Bardy, B. G., Gueugnon, M., Schmidt, R. C., Stoupinoff, L., & Marin, L. Different-looking individuals influence interpersonal coordination stability. Paper presented at the 13th European Workshop on Ecological Psychology, Lusty Beg, Northern Ireland, June 2014.
- Marin, L., Salesse, R. N., Schmidt, R. C., Zhao, Z., Gueugnon, M., Raffard, S., Capdevielle, D., Schmitz, N., Miezal, M., Stricker, D., Di Bernardo, M., Tsaneva-Atanasova, K., & Bardy, B. G. Using a similar avatar to enhance social interaction. Paper presented at the 13th European Workshop on Ecological Psychology, Lusty Beg, Northern Ireland, June 2014.

- Fitzpatrick, P., Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. The role of joint action in evaluating social competence in autism. Paper presented at Fifth Joint Action Meeting. Berlin, Germany, July, 2013.
- Bardy, B. G., Varlet, M., Raffard, S., Schmidt, R. C., Capdevielle, D., Boulenger, J. P., Del-Monte, J., & Marin, L. Schizophrenia embodied. Paper presented at Fifth Joint Action Meeting. Berlin, Germany, July, 2013.
- Kijima, A., Okumura, M., Schmidt, R. C., & Yamamoto, Y. Anti-phase synchronization of tag-players evolved in distance not to lose. Paper presented at 17<sup>th</sup> International Conference on Perception and Action. Estoril, Portugal, July, 2013.
- Marin, L., Schmidt, R. C., Varlet, M., Del-Monte, J., Salesse, R.N., Raffard, S., Capdevielle, D., & Bardy, B.G. Understand schizophrenia through social motor coordination. Paper presented at 17<sup>th</sup> International Conference on Perception and Action. Estoril, Portugal, July, 2013.
- Marin, L., Schmidt, R. C., Salesse, R., Raffard, S., Capdevielle, D., Tsaneva, K., Billard, A., Stricker, D., Lagarde, J., Chaminade, T., & Bardy, B. Social coordination. Demonstration presented at the EuroMov Inaugural Conference, Montpellier, France, June 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.
- Salesse, R. N., Del-monte, J., Raffard, S., Capdevielle, D., Varlet, M., Schmidt, R. C., Boulenger, J. P., Bardy, B. G., & Marin, L. Social priming: A tool to enhance impaired social coordination. Paper presented at the 2012 Meeting of the Ecological Workshop on Ecological Psychology, Madrid, Spain, June 2012.
- Fitzpatrick, P. A., 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). Invited paper presented at the Conference of the North American Society for the Psychology of Sport and Physical Activity, Honolulu, Hawaii, June 2012.
- Richardson, M. J., Kallen, R. W., Coey, C., Harrison, S. J., & Schmidt, R. C. Interpersonal and team coordination: Perception-action processing vs. perception-action dynamics. Invited paper presented at the Conference of the North American Society for the Psychology of Sport and Physical Activity, Honolulu, Hawaii, June 2012.
- Fitzpatrick, P. A., 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.
- Varlet, M., Marin, L., Raffard, S., Schmidt, R. C., Capdevielle, D., Boulenger, J. P., Del-Monte, J. & Bardy, B. G. Interpersonal coordination in schizophrenia. Paper presented at the 16th International Conference on Perception and Action, Ouro Preto, Brazil, July 2011.
- Schmidt, R. C. & Fitzpatrick, P. A. New methodology to study interpersonal coordination in natural interactions. Paper presented at 2010 North American Meeting of The International Society For Ecological Psychology, Illinois State University, Normal, IL, July 2010.
- Coey, C., Varlet, M., Schmidt, R. C. & Richardson, M. J. Agency and coordination. Paper presented at 2010 North American Meeting Of The International Society For Ecological Psychology, Illinois State University, Normal, IL, July 2010.
- Varlet, M., Coey, C., Schmidt, R. C. & Richardson, M. J. Amplitude of environmental rhythm and spontaneous coordination. Paper presented at 2010 North American Meeting Of The International Society For Ecological Psychology, Illinois State University, Normal, IL, July 2010.
- Schmidt, R. C. & Fitzpatrick, P. A. A video analysis method for studying natural social interactions. Paper presented at 11th European Workshop of Ecological Psychology, Frejus, France, June 2010.
- Schmidt, R. C. Dynamics of activity in structured conversation. Paper presented at the 3rd Joint Action Meeting, Amsterdam, Netherlands, July, 2009.
- Schmidt, R. C. Coordination dynamics of natural social interactions. Paper presented at the 2nd International Congress of Complex Systems in Sport and 10th European Workshop of Ecological Psychology, Madeira, Portugal, November, 2008.
- Schmidt, R. C. Dances we can and cannot do: Perceptual and dynamical constraints on interpersonal coordination. Paper presented at the 14th International Conference on Perception and Action. Yokohama, Japan, July 2007.
- Isenhower, R., Marsh, K. L., Silva, P., Richardson, M. J., & Schmidt, R. C. Unintentional interpersonal coordination in autistic and typically-developing children. Paper presented at the 14th International Conference on Perception and Action. Yokohama, Japan, July 2007.
- Schmidt, R. C. Dynamical and perceptual constraints on interpersonal coordination. Paper presented at the 3rd International Conference on Enactive Interfaces, Montpellier, France, November, 2006.

- Lopresti-Goodman, S. M., Silva, P., Richardson, M. J., & Schmidt, R. C. Frequency Basin of entrainment for unintentional visual coordination. Paper presented at the North American Meeting of the International Society for Ecological Psychology, University of Cincinnati, Cincinnati, OH, June, 2006.
- Hajnal, A., Harrison, S. J., Richardson, M. J., & Schmidt, R. C. Visual information and environmental coordination. Paper presented at the North American Meeting of the International Society for Ecological Psychology, University of Cincinnati, Cincinnati, OH, June, 2006.
- Johnston, L., Richardson, M. J., Schmidt, R. C., & Marsh, K. L., & Miles, L. Focusing on the action in social interaction. Paper presented at the 13th International Conference on Perception and Action. Monterey, CA, July 2005.
- Marsh, K. L., Richardson, M. J., Schmidt, R. C., & Baron, R. M. Social synergistic approach to perceiving and acting with others. Paper presented at the 13th International Conference on Perception and Action. Monterey, CA, July 2005.
- Richardson, M. J., Schmidt, R. C., & Kay, B. A. Distinguishing noise and attractor strength in rhythmic limb movements using recurrence analysis. Paper presented at the 13th International Conference on Perception and Action. Monterey, CA, July 2005.
- Schmidt, R. C., & Richardson, M. J. Effect of eye movements on the unintentional entrainment of wrist movements to an environmental rhythm. Paper presented at the 13th International Conference on Perception and Action. Monterey, CA, July 2005.
- Schmidt, R. C. & Rhodes, T. Short and long time scale components of rhythmic movement variability. Paper presented at the 14th Meeting of the New England Sequencing and Timing Conference, New Haven City, CT, March, 2004.
- Richardson, M. J., Schmidt, R. C. & Marsh, K. L. The effects of visual and verbal couplings on interpersonal synchrony. Paper presented at the 12th International Conference on Perception and Action, Griffin University, Gold Coast, Australia, July, 2003.
- Rhodes, T. & Schmidt, R. C. Long-term memory processes in informationally controlled rhythmic movement. Paper presented at the 12th International Conference on Perception and Action, Griffin University, Gold Coast, Australia, July, 2003.
- Schmidt, R. C. Short and long time scale components of rhythmic movement variability. Paper presented at the 43rd Meeting of the Psychonomic Society, Kansas City, MO, November, 2002.
- Carello, C., Marciarielle\*, V. & Schmidt, R. C. Motor timing and phonological fluency in nonimpaired readers. Paper presented at Haskins Laboratories' Dynamics and Reading Day, New Haven, CT, August, 2000.
- Schmidt, R. C. & Sysko\*, R. Perceptual-motor coordination and handedness in endoscopic surgery. Paper presented at the 2000 North American Meeting of International Society for Ecological Psychology, Clemson University, Clemson, SC, June, 2000.
- Schmidt, R. C., Fitzpatrick, P. A., & E. C. Goldfield. Modeling the coordination of infant sucking and breathing. Paper presented at the 9th International Conference on Perception and Action, University of Toronto, Toronto, July, 1997.
- Fitzpatrick, P. A., & Schmidt, R. C. Using dynamical methods to understand developing systems. Paper presented at the 9th International Conference on Perception and Action, University of Toronto, Toronto, July, 1997.
- Schmidt, R. C. Constraints on between-person coordination. Paper presented at the 7th International Conference on Event Perception and Action, University of British Columbia, Vancouver, August, 1993.
- Schmidt, R. C., Fitzpatrick, P. A., & Lockman, J. J. Rhythmic foundations of manual skill. Paper presented at the 60th Anniversary Meeting of the Society for Research in Child Development, New Orleans, LA, March, 1993.
- Schmidt, R. C. Patterning of relative phase in rhythmic coordination within and between persons. Paper presented at the 6th International Conference on Event Perception and Action, Free University, Amsterdam, August, 1991.
- Turvey, M. T., & Schmidt, R. C. Variability in interlimb rhythmic coordinations. Paper presented at Variability and Motor Control Conference, Chicago, IL, April, 1991.
- Schmidt, R. C. Between-person coordination: Evidence for a dynamical basis of the informational couplings found in perceiving-acting systems. Paper presented at the 5th International Conference on Event Perception and Action, Miami University, Oxford, OH, July, 1989.
- Schmidt, R. C. The visual coupling of biological oscillators. Paper presented at the 12th meeting of International Society for Ecological Psychology, Trinity College, Hartford, CT, October, 1987.

#### Poster Presentations

- Lampi, A., Fitzpatrick, P. A., Romero, V., Amaral, J., & Schmidt, R. C. The influence of social and motor context on the frequency of RRBs in Autism, Poster presented at the 86th Anniversary Meeting of the Society for Research in Child Development, Baltimore, MD, March, 2019.

- Johnson, K., Schmidt, R. C., Chokran, C., Cheng, J., & Woodberry, K. Social synchrony in youth at risk for psychosis: Results from a videogame intervention. Poster presented at 2018 Harvard Psychiatry Research Day Poster Session, Boston, USA, April, 2018.
- Cohen, L., Khoramshahi, M., Salesse, R. N., Bortolon, C., Słowiński, P., Zhai, C., Tsaneva-Atanasova, K., Di Bernardo, M., Capdevielle, D., Marin, L., Schmidt, R. C., Bardy, B. G., Billard, A., & Raffard, S. Effects of facial emotions on social-motor coordination in schizophrenia. Poster presented at the Sixth Joint Action Meeting, Budapest, Hungary, July, 2017.
- Chokran, C. M., Woodberry, K. A., Seidman, L. J., & Schmidt, R. C. Interpersonal synchrony in youth with emerging psychosis. Poster presented at 2017 Harvard Psychiatry Research Day Poster Session, Boston, USA, April, 2017.
- 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, USA, 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, USA, July, 2015.
- Zhao, Z., Salesse, R. N., Gueugnon, M., Schmidt, R. C., Marin, L., & Bardy, B. G., Different-looking individuals influence interpersonal coordination stability. Poster presented at the 18th International Conference on Perception and Action. Minneapolis, USA, July, 2015.
- Eiler, B. A., Kallen, R. W., Harrison, S., Schmidt, R. C., Saltzman, E., & Richardson, M. J. The effect of collision cost on behavioral dynamics: How changes in avoidance are captured by behavioral dynamics. Poster presented at the Sixth Joint Action Meeting, Budapest, Hungary, July, 2015.
- Zhao, Z., Salesse, R. N., Gueugnon, M., Schmidt, R. C., Marin, L. & Bardy, B. G. Does physical attractiveness influence interpersonal motor coordination. Poster presented at the Sixth Joint Action Meeting, Budapest, Hungary, July, 2015.
- Fitzpatrick, P., Romero, V., Amaral, J. L., Thomas, C. L., Duncan, A. W., Barnard, H., Richardson, M. J. & Schmidt, R. C., Dynamics of social movement coordination as a pathway to understanding ASD-specific social deficits. International Meeting for Autism Research of the International Society for Autism Research, Atlanta, GA, May 2014.
- Romero, V., Amaral, J. L., Fitzpatrick, P., Thomas, C. L., Duncan, A. W., Barnard, H., Schmidt, R. C. & Richardson, M. J. Capturing social motor coordination in children with autism: comparing the Microsoft Kinect, video analysis and wireless motion sensor tracking. International Meeting for Autism Research of the International Society for Autism Research, Atlanta, GA, May 2014.
- Schmidt, R. C., Borders\*, J., & Hallahan, M. Does motor synchrony really create interpersonal cooperation? Poster presented at the Fifth Joint Action Meeting, Berlin, Germany, July, 2013.
- Romero, V., Malone, M. L., Fitzpatrick, P., Schmidt, R. C., & Richardson, M. J. Capturing social motor coordination: Comparing the Microsoft Kinect, video analysis and wireless motion sensor tracking. Poster presented at the Fifth Joint Action Meeting, Berlin, Germany, July, 2013.
- Salesse, R. N., Del-Monte, J., Raffard, S., Capdevielle, D., Varlet, M., Schmidt, R. C., Boulenger, J. P., & Bardy, B. G. Effect of social priming on interpersonal coordination: a comparative study with schizophrenia patients. Poster presented at the 17<sup>th</sup> International Conference on Perception and Action. Estoril, Portugal, July, 2013.
- Hallahan, M., Borders\*, J., & Schmidt, R. C. Does motor synchrony really create interpersonal cooperation? Poster presented at the 17<sup>th</sup> International Conference on Perception and Action. Estoril, Portugal, July, 2013.
- Fitzpatrick, P., Romero, V., Amaral, J., Richardson, M. J., & Schmidt, R. C. Is social competence a multi-dimensional construct? Motor and cognitive components in autism. Poster presented at the 17<sup>th</sup> International Conference on Perception and Action. Estoril, Portugal, July, 2013.
- Del-Monte, J., Varlet, M., Raffard S., Capdevielle D., Salesse R. N., Schmidt, R. C., Bardy, B. G., Boulenger, J. P., Gély-Nargeot, M. C., & Marin L. Social motor coordination in unaffected relatives of schizophrenia patients: A new endophenotype? Poster presented at the 17<sup>th</sup> International Conference on Perception and Action. Estoril, Portugal, July, 2013.
- Malone, M. L., Romero, V., Fitzpatrick, P., Schmidt, R. C., & Richardson, M. J. Capturing social motor coordination: Comparing the Microsoft Kinect, video analysis and wireless motion sensor tracking. Poster presented at the 17<sup>th</sup> International Conference on Perception and Action. Estoril, Portugal, July, 2013.
- Schmidt, R. C., Borders\*, J., & Hallahan, M. Interpersonal synchrony and cooperation. Poster presented at the EuroMov Inaugural Conference, Montpellier, France, June 2013.
- Schmidt, R. C., Fitzpatrick, P. A., & Richardson, M. J. Imitation and social synchronization deficits in children with ASD. Poster presented at the EuroMov Inaugural Conference, Montpellier, France, June 2013.

- Varlet, M., Marin, L., Raffard, S., Schmidt, R. C., Capdevielle, D., Boulenger, J. P., Del-Monte, J. & Bardy, B. G. Interpersonal coordination is impaired in schizophrenia. Poster presented at the EuroMov Inaugural Conference, Montpellier, France, June 2013.
- Borders\*, J., Schmidt, R. C. & Hallahan, M. Does motor synchrony create interpersonal cooperation? Poster presented at the 52nd annual meeting of the New England Psychological Association meeting, Worcester, MA, October 2012.
- Salesse, R. N., Ntolooulou, M., Schmidt, R. C., Bardy, B. G., Marin, L., Chaminade, T. & Lagarde, J. Perceiving action during action execution: Intentional effects. Poster presented at the 2012 Meeting of the Ecological Workshop on Ecological Psychology, Madrid, Spain, June 2012.
- Varlet, M., Marin, L., Raffard, S., Schmidt, R. C., Capdevielle, D., Boulenger, J. P., Del-monte, J. & Bardy, B. G. Disorders of social motor coordination in schizophrenia. Poster presented at the 2012 Meeting of the Ecological Workshop on Ecological Psychology, Madrid, Spain, June 2012.
- Richardson, M. J., Harrison, S. J., May, R., Kallen, R. W. & Schmidt, R. C. Self-organized complementary coordination: Dynamics of an interpersonal collision-avoidance task. Poster presented at The International Conference of the European SKILLS Project, Montpellier, France, December, 2011.
- Schmidt, R. C., Bucci\*, C. & Richardson, M. J. Constraints on spontaneous entrainment. Poster presented at The International Conference of the European SKILLS Project, Montpellier, France, December, 2011.
- Varlet, M., Marin, L., Issartel, J., Schmidt, R. C. & Bardy, B. G. Sensorimotor synchronization with discrete or continuous slow stimulus. Poster presented at the 16<sup>th</sup> International Conference on Perception and Action, Ouro Preto, Brazil, July 2011.
- Salesse, R. N., Ntolooulou, M., Schmidt, R. C., Lagarde, J., Chaminade, T. & Marin, L. "Do what I say, not what I do": Increased motor resonance with real than artificial agent during non-instructed coordination task. Poster presented at the 16<sup>th</sup> International Conference on Perception and Action, Ouro Preto, Brazil, July 2011.
- Coey, C., Varlet, M., Schmidt, R. C. & Richardson, M. J. Stability of Interpersonal Coordination. Poster presented at 2010 North American Meeting Of The International Society For Ecological Psychology, Illinois State University, Normal, IL, July 2010.
- Richardson, M. J., Coey, C., Romero, V., Chu, M. & Schmidt, R. C. Unintentional entrainment and visual tracking mediate rhythmic movement interference. Poster presented at 2010 North American Meeting Of The International Society For Ecological Psychology, Illinois State University, Normal, IL, July 2010.
- Schmidt, R. C., Mergeche\*, J., Bucci\*, C. & Richardson, M. J. How important is direction change information for spontaneous entrainment? Poster presented at 2010 North American Meeting Of The International Society For Ecological Psychology, Illinois State University, Normal, IL, July 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.
- Varlet, M., Marin, L., Capdevielle, D., Barbut, P., Raffard, S., Schmidt, R. C., Attal, J., Boulenger, J. P., & Bardy, B. G. Influence of schizophrenia on visuo-motor tracking task. Poster presented at the 2009 Progress in Motor Control Conference, Marseille, France, July, 2009.
- Richardson, M. J., Marsh, K. L., & Schmidt, R. C. Natural constraints on visual interpersonal and environmental coordination. Poster presented at A Natural-Physical Perspective on Perception-Action-Cognition: The Turvey Transition Conference, University of Connecticut, June, 2008.
- Isenhower, R. W., Marsh, K. L., Silva, P., Richardson, M. J., & Schmidt, R. C. Inter- and intra-personal coordination in autistic and typically-developing children. Poster presented at A Natural-Physical Perspective on Perception-Action-Cognition: The Turvey Transition Conference, University of Connecticut, June, 2008.
- Lopresti-Goodman, S. M., Mancini, M., Schmidt, R. C., Kay, B., & Richardson, M. J. Comparing the attractor strength of intra- and inter-personal interlimb coordination. Poster presented at the 14<sup>th</sup> International Conference on Perception and Action, Yokohama, Japan, July 2007.
- Richardson, M. J., Rutherford\*, J. A., Thatcher\*, K. J., Campbell\*, W. L., & Schmidt, R. C. Rhythmic constraints on the perception of period variability and the influence of detuning and movement stability on unintentional visual coordination. Poster presented at Coordination Dynamics 2007 Conference, Florida Atlantic University, Boca Raton, FL, February, 2007.
- Mancini, M., Richardson, M. J., Schmidt, R. C., & Kay, B. Uncovering differences in the stability of intra- and interpersonal coordination using recurrence analysis. Poster presented at the North American Meeting of the International Society for Ecological Psychology, University of Cincinnati, Cincinnati, OH, June, 2006.
- Johnston, L., Miles, L., Richardson, M. J., Schmidt, R. C., Marsh, K. L., & Yabar, Y. Implicit mimicry and synchronization: Impact of group membership. Poster presented at the North American Meeting of the International Society for Ecological Psychology, University of Cincinnati, Cincinnati, OH, June, 2006.
- Richardson, M. J., Curtis, K., Zeising\*, M. & Schmidt, R. C. Visual tracking and unintentional visual coordination.

- Poster presented at the North American Meeting of the International Society for Ecological Psychology, University of Cincinnati, Cincinnati, OH, June, 2006.
- Schmidt, R. C., Richardson, M. J., & Curtis\*, K. Effects of perceptual and production rhythms on unintentional synchronization. Poster presented at Progress in Motor Control V: A Multidisciplinary Perspective, Pennsylvania State University, State College, PA, August, 2005
- Richardson, M. J., Schmidt, R. C., & Kay, B. A. Indexing noise and attractor strength in interlimb coordination using cross-recurrence analysis. Poster presented at Progress in Motor Control V: A Multidisciplinary Perspective, Pennsylvania State University, State College, PA, August, 2005
- Goodman J. R. L., Isenhower, R. W., Marsh, K. L., Schmidt, R. C., & Richardson, M. J. The interpersonal phase entrainment of rocking chair movements. Poster presented at the 13<sup>th</sup> International Conference on Perception and Action, Monterey, CA, July 2005
- Schmidt, R. C., Richardson, M. J., Arsenaault\*, C. & Galantucci, B. Unintentional Entrainment of Wrist Movements to a Sinusoidal Display: Effect of Eye Tracking. Poster presented at Symmetry and Duality: Principles for an Ecological Psychology A Festschrift in Honor of Robert E. Shaw, University of Connecticut, Storrs, CT, June 2004
- Rhodes, T. G. & Schmidt, R. C. Long-term memory processes in rhythmic movement variability. Poster presented at Coordination Dynamics 2002: An International Conference on Brain and Behavior, Florida Atlantic University, Delray Beach, FL, May 2002.
- Richardson, M. J., Schmidt, R. C. & Marsh, K. L. Unintentional interpersonal coordination of rhythmic movement. Poster presented at Coordination Dynamics 2002: An International Conference on Brain and Behavior, Florida Atlantic University, Delray Beach, FL, May 2002.
- Wagman, J. B., Dahle, C. & Schmidt, R. C. Perceptual learning dynamics. Poster presented at Coordination Dynamics 2002: An International Conference on Brain and Behavior, Florida Atlantic University, Delray Beach, FL, May 2002.
- Czerniach, D. R., Novitsky, Y. W., Perugini, R. A., Kelly, J. J., Schmidt, R. C., & Litwin, D. E. M. Effects of image variables on videoscopic task performance. Poster presented at 8<sup>th</sup> World Congress of Endoscopic Surgery, New York, March, 2002.
- Schmidt, R. C., Gribbons\*, N., & Eckert\*, B. The effect of the hand in the body cavity on a laparoscopic surgical task. Poster presented at 2000 North American Meeting Of The International Society For Ecological Psychology, Clemson University, Kingstree, SC, June 2000.
- Fay\*, M., Kramer, P., & Schmidt, R. C. Dynamics of handwriting. Poster presented at 1998 North American Meeting Of The International Society For Ecological Psychology, Trinity College, Hartford CT, May 1998.
- Javier\*, E., Sysko\*, R., & Schmidt, R. C. Effect of remote sensing on the timing and spacing of aiming movements. Poster presented at 1998 North American Meeting Of The International Society For Ecological Psychology, Trinity College, Hartford CT, May 1998.

## **PROFESSIONAL ACTIVITY**

### Professional Societies

American Psychological Association	1990-1998
Psychonomics Society	2001-2003
American Psychological Society	2008- 2011
International Society for Ecological Psychology	1990-present
Board of Directors, International Society for Ecological Psychology	2013-present

### Journal Positions

Editor, *Ecological Psychology*, 2015-2020  
 Editorial Board, *Journal of Motor Behavior*, 1992-present

Ad Hoc Reviewer for *Journal of Experimental Psychology: Human Perception and Performance*; *Ecological Psychology*; *Behavior Research Methods, Instruments, & Computers*; *Journal of Motor Behavior*; *Developmental Neuropsychology*; *Biological Cybernetics*, *Human Movement Science*, *Current Directions in Psychological Science*; *Journal of Fluency Disorders*; *Experimental Brain Review*; *Neuroscience Letters*; *Acta Psychologica*; *Psychological Methods*; *Gait and Posture*; *Frontiers in Psychology*; *Journal of Language and Social Psychology*; *Cognition*; *Motor Control*; *Journal of Biomechanics*; *Experimental Brain Research*; *Journal of Sports Sciences*; *Journal of Nonverbal Behavior*

### Symposium Organization

*Rhythmic Foundations of Skilled Behavior*. Symposium at the 60th Anniversary Meeting of the Society for Research in Child Development, New Orleans, LA, March, 1993. Co-chair with Jeffrey J. Lockman.

*The Development of Coordination* symposium at the 9th International Conference on Perception and Action, University of Toronto, Toronto, July, 1997. Co-chair with Eugene Goldfield and Paula Fitzpatrick.

*Dynamics of Informational Couplings*. Symposium at the 13<sup>th</sup> International Conference on Perception and Action. Monterey, CA, July 2005. Co-chair with Geoffrey P. Bingham.

*Interpersonal Enactive Interactions*. Symposium at the 3<sup>rd</sup> International Conference on Enactive Interfaces, Montpellier, France, November, 2006. Co-chair with Ludovic Marin.

*Human and Robot Interagent Coordination: Similarities and Differences*. Symposium at the 14<sup>th</sup> International Conference on Perception and Action. Yokohama, Japan, July 2007. Co-chair with Ludovic Marin.

*Interpersonal Coordination In More Natural Contexts*. Symposium at the 15<sup>th</sup> International Conference on Perception and Action. Minneapolis, July 2009. Co-chair with Ludovic Marin.

*Social Coordination's Breakdown in Pathology*. Symposium at the 16<sup>th</sup> International Conference on Perception and Action. Ouro Preto, Brasil, July 2011. Co-chair with Ludovic Marin.

*Understanding interpersonal motor coordination: Sharing representations or sharing dynamics*. Symposium at the 2012 North American Society for the Psychology of Sport and Physical Activity, Honolulu, Hawaii, June 2012.