

## 7. References

- Alain, C., McDonald, K. L., Ostroff, J. M., & Schneider, B. (2004). Aging: A switch from automatic to controlled processing of sounds? *Psychology and Aging, 19*, 125-133.
- Allaire, J. C. & Marsiske, M. (2005). Intraindividual variability may not always indicate vulnerability in elder's cognitive performance. *Psychology and Aging, 20*, 390-401.
- Andersson, G., Hagman, J., Talianzadeh, R., Svedberg, A., & Larsen, H. C. (2002). Effect of cognitive load on postural control. *Brain Research Bulletin, 58*, 135-139.
- Andersson, G., Yardley, L., & Luxon, L. (1998). A dual-task study of interference between mental activity and control of balance. *American Journal of Otology, 19*, 632-637.
- Anstey, K. J., Hofer, S. M., & Luszcz, M. A. (2003a). A latent growth curve analysis of late-life sensory and cognitive function over 8 years: Evidence for specific and common factors underlying change. *Psychology and Aging, 18*, 714-726.
- Anstey, K. J., Hofer, S. M., & Luszcz, M. A. (2003b). Cross-sectional and longitudinal patterns of dedifferentiation in late-life cognitive and sensory function: The effects of age, ability, attrition, and occasion of measurement. *Journal of Experimental Psychology: General, 132*, 470-487.
- Anstey, K. J., Lord, S. R., Williams, P. (2002). Strength in the lower limbs, visual contrast sensitivity, and simple reaction time predict cognition in older women. *Psychology and Aging, 12*, 137-144.
- Anstey, K. J. & Smith, G. A. (1999). Interrelationships among biological markers of aging, health, activity, acculturation, and cognitive performance in late adulthood. *Psychology and Aging, 14*, 605-618.
- Arnsten, A. F. T. (1998). Catecholamine modulation of prefrontal cortical cognitive function. *Trends in Cognitive Sciences, 2*, 436-447.
- Bäckman, L. & Farde, L. (2004). The role of dopamine functions in cognitive aging. In R., Cabeza, L., Nyberg, & D. C., Park (Eds.) *Cognitive neuroscience of aging: Linking cognitive and cerebral aging* (pp. 58-84). New York: Oxford University Press.
- Bäckman, L., Ginovart, N., Dixon, R. A., Robins-Wahlin, T.-B., Wahlin, A., Halldin, C., & Farde, L. (2000). Age-related cognitive deficits mediated by changes in the striatal dopamine system. *American Journal of Psychiatry, 157*, 635-637.
- Bäckman, L., Nyberg, L., Lindenberger, U., Li, S. C., & Farde, L. (in press). The correlative triad among aging, dopamin, and cognition: Current status and future projects. *Neuroscience and Biobehavioral Reviews*.
- Balasubramaniam, R. & Wing, A. M. (2002). The dynamics of standing balance. *Trends in Cognitive*

- Science*, 12, 531-536.
- Baltes, P. B. (1987). Theoretical propositions of Lifespan developmental psychology: On the dynamics between growth and decline. *Developmental Psychology*, 23, 611-626.
- Baltes, P. B., & Kliegl, R. (1992). Further testing of limits of cognitive plasticity: Negative age differences in a mnemonic skill are robust. *Developmental Psychology*, 28, 121-125.
- Baltes, P. B., Lindenberger, U. (1997). Emergence of a powerful connection between sensory and cognitive functions across the adult life span: A new window to the study of cognitive aging? *Psychology and Aging*, 2, 12-21.
- Baltes, P. B., Lindenberger, U., & Staudinger, U. M. (1998). Lifespan theory in developmental psychology. In W. Damon (Ed.-in-Chief). & R. M. Lerner (Vol. Ed.), *Handbook of child psychology: Vol. 1. Theoretical models of human development* (5th ed., pp. 1029–1143). New York: Wiley.
- Baltes, P. B., Reese, H. W., & Nesselroade, J. R. (1988). *Lifespan developmental psychology: Introduction to research methods* (Reprint of 1977 ed.). Hillsdale, NJ; Erlbaum.
- Barkai, N. & Leibler, S. (1997). Robustness in simple biochemical networks. *Nature*, 387, 913-917.
- Beer, R. D. (2000). Dynamic approaches to cognitive science. *Trends in Cognitive Science*, 4, 91-99.
- Bergman, L. R., Magnusson, D., & El-Khoury, B. M. (2003). Studying individual development: A person-oriented approach. In D. Magnusson (Series Ed.), *Paths through life* (Vol. 4). Mahwah, NJ: Erlbaum.
- Berkson, G. & Baumeister, A. A. (1967). Reaction time variability of mental defectives and normals. *American Journal of Mental Deficiency*, 72, 262-266.
- Bernstein, N. A. (1967). *Co-ordination and the regulation of movements*. London: Pergamon.
- Bills, A. G. (1931). Blocking: A new principle of mental fatigue. *American Journal of Psychology*, 43, 230-245.
- Blakemore, S. J., Goodbody, S. J., & Wolpert, D. M. (1998). Predicting the consequences of our own actions: The role of sensory context estimation. *Journal of Neuroscience*, 18, 7511-7518.
- Braver, T. S., Barch, D. M., Keys, B. A., Carter, C. S., Cohen, J. D., Kaye, J. A., Janowsky, J. S., Taylor, S. F., Yesavage, J. A., Mumenthaler, M. S., Jagust, W. J., & Reed, B. R. (2001). Context processing in older adults: Evidence for a theory relating cognitive control to neurobiology in healthy aging. *Journal of Experimental Psychology: General*, 130, 746-763.
- Braver, T. S., Reynolds, J. R., & Donaldson, D. I. (2003). Neural mechanisms of transient and sustained cognitive control during task switching. *Neuron*, 39, 713-726.
- Broadbent, D. E. (1953). Noise, paced performance, and vigilance tasks. *British Journal of Psychology*, 43, 230-245.

- Brown, L. A. & Woollacott, M. H. (1998). The effects of aging on the control of posture and locomotion in healthy older adults: An emphasis on cognition. *Psychologische Beiträge*, 40, 27-43.
- Bruning, R. H., Holzauer, I., & Kimberlin, C. (1975). Age, word, imagery, and delay interval: Effects on short-term and long-term retention. *Journal of Gerontology*, 30, 312-318.
- Bunce, D. J., MacDonald, S. W. S., & Hultsch, D. F. (2004). Inconsistency in serial choice and motor reaction times dissociate in younger and older adults. *Brain and Cognition*, 56, 320-327.
- Bunce, D. J., Warr, P. B., & Cochran, T. (1993). Blocks in choice responding as a function of age and physical fitness. *Psychology and Aging*, 8, 26-33.
- Carron, A. V. & Bailey, D. A. (1969). Evidence for reliable individual differences in intra-individual variability. *Perceptual and Motor Skills*, 28, 843-846.
- Cattell, R. B. (1971). *Abilities: Their structure, growth, and action*. Boston; Houghton Mifflin.
- Cepeda, N. J., Kramer, A. F., & Gonzales de Sather, J. C. M. (2001). Changes in executive control across the lifespan: Examination of task-switching performance. *Developmental Psychology*, 37, 715-730.
- Chiari, L., Rocchi, L., & Cappello, A. (2002). Stabilometric parameters are affected by anthropometry and foot placement. *Clinical Biomechanics*, 17, 666-677.
- Choy, N. L., Brauer, S., & Nitz, J. (2003). Changes in postural stability in women aged 20 to 80 years. *Journal of Gerontology: Biological Sciences*, 58A, B525-B530.
- Christensen, H., MacKinnon, A. J., Korten, A., & Jorm, A. F. (2001). The common cause hypothesis of cognitive aging: Evidence for not only a common factor but also specific associations of age with vision and grip strength in cross-sectional analysis. *Psychology and Aging*, 16, 588-599.
- Cleveland, W. S. & Devlin, S. J. (1988). Locally weighted regression and smoothing scatterplots. *Journal of the American Statistical Association*, 74, 829-836.
- Cohen, J. D., Aston-Jones, G., & Gilzenrat, M. S. (2004). A systems-level perspective on attention and cognitive control: Guided activation, adaptive gating, conflict monitoring, and exploitation versus exploration. In M. I. Posner (Ed). *Cognitive neuroscience of attention*. (pp. 71-90). New York: Guilford Press.
- Cohen, J. D., Botvinick, M., & Carter, C. S. (2000). Anterior cingulate and prefrontal cortex: Who's in control? *Nature Neuroscience*, 3, 421-423.
- Collins, J. J. & De Luca, C. J. (1993). Open-loop and closed-loop control of posture: A random walk analyses of center of pressure trajectories. *Experimental Brain Research*, 95, 308-318.

- Condrón, J. E. & Hill, K. D. (2002). Reliability and validity of dual-task force platform assessment of balance performance: effect of age, balance impairment, and cognitive task. *Journal of the American Geriatrics Society*, *50*, 157-162.
- Cummings, S. R. & Nevitt, M. C. (1994). Falls. *New England Journal of Medicine*. *331*, 872-873.
- Dault, M. C., Frank, J. S. (2004). Does practice modify the relationship between postural control and the execution of a secondary task in young and older individuals. *Gerontology*, *50*, 157-164.
- Dault, M. C., Frank, J. S., & Allard, F. (2001). Influence of a visuo-spatial, verbal and central executive working memory task on postural control. *Gait and Posture*, *14*, 110-116.
- Dault, M. C., Geurts, A. C., Mulder, T. W., Duysens, J. (2001). Postural control and cognitive task performance in healthy participants while balancing on different support-surface configurations. *Gait and Posture*. *14*, 248-55.
- Dault, M. C., Yardley, L., Frank, J. S. (2003). Does articulation contribute to modifications of postural control during dual-task paradigms? *Cognitive Brain Research*, *16*, 434-440.
- Dempster, A. P., Laird, N. M., & Rubin, D. B. (1977). Maximum likelihood from incomplete data via the EM algorithm. *Journal of the Royal Statistical Society. Series B*, *39*, 1-38.
- Deviterne, D., Gauchard, G. C., Jamet, M., Vancon, G., & Perrin, P. P. (2005). Added cognitive load through rotary auditory stimulation can improve the quality of postural control in the elderly. *Brain Research Bulletin*, *64*, 487-492.
- Dipple, K. M., Phelan, J. K., & McCabe, E. R. B. (2001). Consequences of complexity within biological networks: Robustness and health, or vulnerability and disease. *Molecular Genetics and Metabolism*, *74*, 45-50.
- Downar, J., Crawley, A. P., Mikulis, D. J., & Davis, K. D. (2000). A multimodal cortical network for the detection of changes in the sensory environment. *Nature*, *3*, 277-283.
- Duncan, J. & Miller, E. K. (2002). Cognitive focus through adaptive neural coding in the primate prefrontal cortex. In D. T., Stuss, & R. T. Knight, (Eds.), *Principles of frontal lobe function*. (pp. 278-291). London: Oxford University Press.
- Ehrenfried, T., Guerraz, M., Thilo, K. V., Yardley, L., & Gresty, M. A. (2003). Posture and mental task performance when viewing a moving visual field. *Cognitive Brain Research*, *17*, 140-153.
- Egan, M. F., Goldberg, T. E., Kochalana, B. S., Callicott, J. H., Mazzanti, C. M., Straub, R. E. et al. (2001). Effect of COMT Val(108/158) Met genotype on frontal lobe function and risk for schizophrenia. *Proceedings of the National Academy of Sciences of the United States of America*, *98*, 6917-6922.

- Ekdahl, C., Jarnlo, G. B., & Andersson, S. I. (1989). Standing balance in healthy subjects. Evaluation of a quantitative test battery on a force platform. *Scandinavian Journal of Rehabilitation Medicine*, 27, 187-195.
- Estes, W. K. (1956). The problem of inference from curves based on group data. *Psychological Bulletin*, 53, 134-140.
- Farenc, I., Rougier, P., & Berger, L. (2003). The influence of gender and body characteristics on upright stance. *Annals of Human Biology*, 30, 279-294.
- Fiske, D. W. & Rice, L. (1955). Intra-individual response variability. *Psychological Bulletin*, 52, 217-250.
- Fitts, P. M. (1954). The information capacity of the human motor system in controlling the amplitude. *Journal of Experimental Psychology: General*, 47, 381-391.
- Ford, D. H. (1987). *Humans as self-constructing living systems*. Hillsdale, NJ: Erlbaum.
- Friedman, A., Dafoe, C. G., Polson, M. C., & Gaskill, S. J. (1982). Dividing attention within and between hemispheres: Testing a multiple resources approach to limited-capacity information processing. *Journal of Experimental Psychology: Human Perception & Performance*, 8, 625-650.
- Fry, A. F & Hale, S. (1996). Processing speed, working memory, and fluid intelligence: Evidence for a developmental cascade. *Psychological Science*, 7, 237-241.
- Ghisletta, P. & Lindenberger, U. (2005). Exploring structural dynamics within and between sensory and intellectual functioning in old and very old age: Longitudinal Evidence from the Berlin Aging Study. *Intelligence*, 33, 555-587.
- Gilden, D. L. (2001). Cognitive emissions of 1/f noise. *Psychological Review*, 108, 33-56.
- Goldberger, A. L., Peng, C.-K., & Lipsitz, L. A. (2002). What is physiologic complexity and how does it change with aging and disease? *Neurobiology of Aging*, 23, 23-26.
- Goldstein, H. (1995). *Multilevel statistical models* (2nd ed.). New York: Halsted.
- Golomer, E., Dupui, P., & Monod, H. (1997). Sex-linked differences in equilibrium reactions among adolescents performing complex sensorimotor tasks. *Journal of Physiology – Paris*, 91, 49-55.
- Hageman, P. A., Leibowitz, M., & Blanke, D. (1995). Age and gender differences on postural control measures. *Archives of Physical Medicine and Rehabilitation*, 76, 961-965.
- Haider, H. & Frensch, P. A. (2002). Why aggregated learning follows the power law of learning when individual learning does not: Comment on Rickard (1997, 1999), Delaney et al. (1998), and Palmeri (1999). *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 28, 392-406.

- Hamaker, E. L., Dolan, C. V., & Molenaar, P. C. M. (2005). Statistical models of the individual: Rationale and application of multivariate stationary time series analysis. *Multivariate Behavioral Research*, *40*, 207-233.
- Hamilton, A. F. C., Jones, K. E., & Wolpert, D. M. (2004). The scaling of motor noise with muscle strength and motor unit number in humans. *Experimental Brain Research*, *157*, 417-430.
- Harwell, M. R. (2003). Summarizing Monte Carlo results in methodological research: The single factor, fixed-effects ANCOVA case. *Journal of Educational and Behavioral Statistics*, *28*, 45-70.
- Harwell, M. R., Rubinstein, E. N., Hayes, W. S., & Olds, C. C. (1992). Summarizing Monte Carlo simulations in methodological research: The one-factor and two-factor fixed-effects ANOVA cases. *Journal of Educational Statistics*, *17*, 315-339.
- Hausdorff, J. M., Mitchell, S. L., Firtion, R., Peng, C.-K., Cudkowicz, M. E., Wei, J. Y., & Goldberger, A. L. (1997). Altered fractal dynamics of gait: Reduced stride interval correlations with aging and Huntington's disease. *Journal of Applied Physiology*, *82*, 262-269.
- Heathcote, A., Brown, S., & Mewhort, D. J. K. (2000). The power law repealed: The case for an exponential law of practice. *Psychonomic Bulletin and Review*, *7*, 185-207.
- Hofer, S. & Sliwinski, M. (2001). Understanding aging: An evaluation of research designs for assessing the interdependence of age-related changes. *Gerontology*, *47*, 341-352.
- Horn, J. L., & Cattell, R. B. (1966). Refinement and test of the theory of fluid and crystallized intelligence. *Journal of Educational Psychology*, *57*, 253-270
- Hox, J. (1998). Multilevel modeling: When and Why. In I. Balderjahn, R. Mathar, & M. Schader (Eds.). *Classification, data analysis, and data highways* (pp. 147-154). New York: Springer.
- Hox, J. (2000). Multilevel analyses of grouped and longitudinal data. In T.D. Little, K.U. Schnabel, & J. Baumert (Eds.). *Modeling longitudinal and multilevel data* (pp.15-32). London: Erlbaum.
- Hultsch, D. F. & MacDonald, S. W. S. (2004). Intraindividual variability in performance as a theoretical window onto cognitive aging. In R. A. Dixon, L. Bäckman, & L.-G. Nilsson (Eds.). *New frontiers in cognitive aging* (pp.65-88). Oxford: Oxford University Press.
- Hultsch, D. F., MacDonald, S. W. S., & Dixon, R. A. (2002). Variability in reaction time performance of younger and older adults. *Journal of Gerontology: Psychological Sciences*, *57B*, 101-115.
- Hultsch, D. F., MacDonald, S. W. S., Hunter, M. A., Levy-Bencheton, J., & Strauss, E. (2001). Intraindividual variability in cognitive performance in the older adults: Comparison of adults with mild dementia, adults with arthritis, and healthy adults. *Neuropsychology*, *14*, 588-598.

- Huxhold, O., Li, S.-C., Schmiedek, F., & Lindenberger, U. (2006). Dual-tasking postural control: Aging and the effects of cognitive demand in conjunction with focus of attention. *Brain Research Bulletin*, *69*, 294-305.
- Inoue, M., Suhara, T., Sudo, Y., Okubo, Y., Yasuno, F., Kishimoto, T., Yoshikawa, K., & Tanada, S. (2001). Age-related reduction of extrastriatal dopamine D2 receptor measured by PET. *Life Sciences*, *69*, 1079-1084.
- Jeka, J., Oie, K. S., & Kliemel, T. (2000). Multisensory information for human postural control: Integrating touch and vision. *Experimental Brain Research*, *134*, 107-125.
- Jensen, A. R. (1992). The importance of intraindividual variation in reaction time. *Personality and Individual Differences*, *13*, 869-881.
- Kaasinen, V. & Rinne, J. O. (2002). Functional imaging studies of dopamine system and cognition in normal aging and Parkinson's disease. *Neuroscience and Biobehavioral Reviews*, *26*, 785-793.
- Kaasinen, V., Vilkmann, H., Hietala, J., Nagren, K., Helenius, H., Olsson, H., Farde, L., & Rinne, J. O. (2000). Age-related dopamine D2/D3 receptor loss in extrastriatal regions of the human brain. *Neurobiology of Aging*, *21*, 683-688.
- Kahneman, D. & Treisman, A. (1984). Changing views of attention and automaticity. In R. Parasuraman & D.R. Davies (Eds.), *Varieties of attention*, (pp. 29-61). New York: Academic Press.
- Keppel, G. (1991). *Design and analysis. A researchers handbook*. Englewood Cliffs, NJ: Prentice-Hall.
- Kerr, B., Condon, S. M., & McDonald, L. A. (1985). Cognitive spatial processing and the regulation of posture. *Journal of Experimental Psychology*, *11*, 617-622.
- Ketcham, C. J., Seidler, R. D., Van Gemmert, A. W. A., & Stelmach, G. E. (2002). Age-related kinematic differences as influenced by task difficulty, target size, and movement amplitude. *Journal of Gerontology: Psychological Sciences*, *57B*, P54-P64.
- Kliegl, R., Smith, J., & Baltes, P. B. (1990). On the locus and process of magnification of age differences during mnemonic training. *Developmental Psychology*, *26*, 894-904.
- Krampe, R. T. & Baltes, P. B. (2003). Intelligence as adaptive resource development and resource allocation: A new look through the lenses of SOC and expertise. In R. J. Sternberg & E. L. Grigorenko (Eds.), *Perspectives on the psychology of abilities, competencies, and expertise*, (pp.31-68). New York: Cambridge University Press.
- Krampe, R. T., Rapp, M. A., Bondar, A., & Baltes, P. B. (2003). Selektion, Optimierung und Kompensation in Doppelaufgaben [Selection, optimization, and compensation in dual tasks]. *Der Nervenarzt*, *74*, 211-218.

- Kollegger, H., Baumgartner, C., Wöber, C., Oder, W., & Deeke, L. (1992). Spontaneous body sway as a function of sex, age, and vision: A posturographic study in thirty healthy adults. *European Neurology, 32*, 253-259.
- Kwon, H., Reiss, A. L., & Menon, V. (2002). Neural basis of protracted developmental changes in visuo-spatial working memory. *Proceedings of the National Academy of Sciences USA, 99*, 13336-13341.
- Labyt, E., Szurhaj, W., Bourriez, J.-L., Cassim, F., Defebvre, L., Destee, A., Guieu, J.-D., & Derambure, P. (2003). Changes in oscillatory cortical activity related to a visuo-motor task in young and elderly healthy subjects. *Clinical Neurophysiology, 114*, 1153-1166.
- Li, K. Z. H. & Lindenberger, U. (2002). Relations between aging and sensory/sensorimotor and cognitive functions. *Neuroscience and Biobehavioral Reviews, 26*, 777-783.
- Li, K. Z. H., Lindenberger, U., Freund, A. M., & Baltes P. B. (2001). Walking while memorizing: Age-related differences in compensatory behavior. *Psychological Science, 12*, 230-237.
- Li, S.-C. (2002). Connecting the many levels and facets of cognitive aging. *Current Directions in Psychological Science, 11*, 38-43.
- Li, S.-C., Aggen, S. H., Nesselroade, J. R., & Baltes, P. B. (2001). Short-term fluctuations in elderly people's sensorimotor functioning predict text and spatial memory performance: The MacArthur Successful Aging Studies. *Gerontology, 47*, 100-116.
- Li, S.-C., Huxhold, O., & Schmiedek, F. (2004). Aging and attenuated processing robustness: Evidence from cognitive and sensorimotor functioning. *Gerontology, 50*, 28-34.
- Li, S.-C. & Lindenberger, U. (1999). Cross-level unification: A computational exploration of the link between deterioration of neurotransmitter systems and dedifferentiation of cognitive abilities in old age. In L.-G. Nilsson & H. J. Markowitsch (Eds.), *Cognitive neuroscience of memory* (pp.103-146). Seattle, WA: Hogrefe & Huber.
- Li, S.-C., Lindenberger, U., & Frensch, P. A. (2000). Unifying cognitive aging: From neuromodulation to representation to cognition. *Neurocomputing, 32*, 879-890.
- Li, S.-C., Lindenberger, U., Hommel, B., Aschersleben, G., Prinz, W., & Baltes, P. B. (2004). Lifespan developmental transformations in the couplings of mental abilities and underlying cognitive processes. *Psychological Science, 15*, 155-163.
- Li, S.-C., Lindenberger, U., & Sikstroem, S. (2001). Aging cognition: From neuromodulation to representation. *Trends in Cognitive Sciences, 5*, 479-486.
- Li, S.-C., Lindenberger, U., & Smith, J. (2005). Intra-person dynamics across the lifespan. *Max Planck Institute for Human Development: Research Report 2003-2004* (pp.166-174). Berlin: Max Planck Institute for Human Development.



- Li, S.-C. & Schmiedek, F. (2002). Age is not necessarily aging: Another step towards understanding the ‘clocks’ that time aging. *Gerontology*, *48*, 5-12.
- Lindenberger, U. & Baltes, P. B. (1994). Sensory functioning and intelligence in old age: A strong connection. *Psychology and Aging*, *9*, 339-355.
- Lindenberger, U. & Baltes, P. B. (1995). Testing-the-limits and experimental simulation – Two methods to explicate the role of learning in development. *Human Development*, *38*, 349-360.
- Lindenberger, U., Marsiske, M., & Baltes, P. B. (2000). Memorizing while walking: Increase in dual-task costs from young adulthood to old age. *Psychology and Aging*, *3*, 417-436.
- Lindenberger, U., Mayr, U. & Kliegl, R. (1993). Speed and Intelligence in old age. *Psychology and Aging*, *8*, 207-220.
- Lindenberger, U. & Pötter, U. (1998). The complex nature of unique and shared effects in hierarchical regression analyses: Implications for developmental psychology. *Psychological Methods*, *3*, 218-230.
- Lindenberger, U. & Oertzen, T. v. (2006). Variability in cognitive aging: From taxonomy to theory. In F. I. M. Craik & E. Bialstok (Eds.). *Lifespan cognition: Mechanisms of change* (pp. 297-314). Oxford: Oxford University Press.
- Lipsitz, L. A. (1995). Age-related changes in the “complexity” of cardiovascular dynamics: A potential marker of vulnerability to disease. *Chaos*, *5*, 102-109.
- Lipsitz, L. A. (2002). Dynamics of stability: The physiological basis of functional health and frailty. *Journal of Gerontology: Biological Sciences*, *57A*, B115-B125.
- Lipsitz, L. A. & Goldberger, A. L. (1992). Loss of “complexity” and aging. Potential applications of fractals and chaos theory to senescence. *Journal of the American Medical Association*, *267*, 1806-1809.
- Lövdén, M. & Lindenberger, U. (2004). Development of intellectual abilities in old age: From age gradients to individuals. In O. Wilhelm & R. W. Engle (Eds.), *Understanding and measuring intelligence*, (pp. 203-221). Thousand Oaks, CA; Sage.
- Lord, S. R., Clark, R. D., Williams, P., & Anstey, K. A. (1993). An epidemiological study of falls in older community-dwelling women: The Randwick Falls and Fractures Study. *Australian Journal of Public Health*, *17*, 240-245.
- Maas, C. J. M. & Hox, J. J. (2004a). The influence of violations of assumptions on multilevel parameter estimates and their standard errors. *Computational Statistics and Data Analysis*, *46*, 427-440.
- Maas, C. J. M & Hox, J. J. (2004b). Robustness issues in multilevel regression analysis. *Statistica Neerlandica*, *58*, 127-137.

- MacDonald, S. W. S., Hulstsch, D., & Dixon, R. (2003). Performance variability is related to change in cognition: Evidence from the Victoria Longitudinal Study. *Psychology and Aging, 18*, 510-523.
- MacDonald, S. W. S., Nyberg, L., & Bäckman, L. (in press). Intraindividual variability in behavior: Links to brain structure, neurotransmission and neuronal activity. *Trends in Neuroscience*.
- MacLennan, W. J., Timothy, J. L., & Hall, M. R. P. (1980). Vibration sense, proprioception and ankle reflexes in old age. *Journal of Clinical Experimental Psychology, 2*, 159-170.
- Maki, B. E., Holliday, P. J., & Fernie, G. R. (1990). Aging and postural control: A comparison of spontaneous-sway and induced-sway balance tests. *Journal of the American Geriatrics Society, 38*, 1-9.
- Maki, B. E. & McIllroy, W. E. (1996). Postural control in the older adult. *Clinics in Geriatric Medicine, 12*, 635-658.
- Maki, B. E., Zecevic, A., Bateni, H., Kishenbaum, N., & McIllroy, W. E. (2001). Cognitive demands of executing postural reactions: Does aging impede attention switching? *Neuroreport, 12*, 3583-3587.
- Manchester, D., Woollacott, M. H., Zederbauer-Hilton, N., & Marin, O. (1989). Visual, vestibular and somatosensory contributions to balance control in the older adult. *Journal of Gerontology, 44*, M118-M127.
- Massion, J. (1994). Postural control system. *Current Opinion in Neurobiology, 4*, 877-887.
- Massion, J. (1998). Postural control systems in developmental perspective. *Neuroscience and Biobehavioral Reviews, 22*, 465-472.
- May, C. P., Hasher, L. & Stoltzfus, E. R. (1993). Optimal time of day and the magnitude of age differences in memory. *Psychological Science, 4*, 326-330.
- Maylor, E. A., Allison, S., & Wing, A. M. (2001). Effects of spatial and nonspatial cognitive activity on postural stability. *British Journal of Psychology, 92*, 319-338.
- Maylor, E. A. & Wing, A.M. (1996). Age differences in postural stability are increased by additional cognitive demands. *Journals of Gerontology: Psychological Sciences and Medical Sciences, 51B*, P143-P154.
- Mayr, U. & Kliegl, R. (1993). Sequential and coordinative complexity: Age-based processing limitations in figural transformations. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 19*, 1297-1320.
- Mayr, U., Kliegl, R., & Krampe, R. T. (1996). Sequential and coordinative processing dynamics in figural transformations across the life span. *Cognition, 59*, 61-90.
- Mayr, U. & Liebscher T. (2001). Is there an age deficit in the selection of mental sets? *European Journal of Cognitive Psychology, 13*, 47-69.

- McCleaghan, B. A., Williams, H. G., Dickerson, J., Dowda, M., Thombs, L., & Eleazer, P. (1996). Spectral characteristics of aging postural control. *Gait and Posture, 4*, 112-121.
- McNevin, N. H., Shea, C. H., & Wulf, G. (2003). Increasing the distance of an external focus of attention enhances learning. *Psychological Research, 67*, 22-29.
- McNevin, N. H. & Wulf, G. (2002). Attentional focus on supra-postural affects postural control. *Human Movement Science, 21*, 187-202.
- McIlroy, W. E. & Maki, B. E. (1997). Preferred placement of the feet during quiet standing: Development of a standardized foot placement for balance testing. *Clinical Biomechanics, 12*, 66-70.
- Miall, R. C., Weir, D. J., Wolpert, D. M., & Stein, J. F. (1993). Is the cerebellum a Smith Predictor? *Journal of Motor Behavior, 25*, 203-216.
- Merfeld, D. A., Zupan, L., & Peterka, R. (1999). Humans use internal models to estimate gravity and linear acceleration. *Nature, 398*, 615-618.
- Mergner, T. & Rosemeier, T. (1998). Interaction of vestibular, somatosensory, and visual signals for postural control and motion perception under terrestrial and microgravity conditions: A conceptual model. *Brain Research Reviews, 28*, 118-135.
- Melzner, I., Benjuya, N., Kaplanski, J. (2001). Age-related changes of postural control: Effect of cognitive tasks, *Gerontology, 47*, 189-194.
- Miller, E. K. (2000). The prefrontal cortex and cognitive control. *Nature Review Neuroscience, 1*, 59-65.
- Miller, E. K. & Cohen, J. D. (2001). An integrative theory of prefrontal cortex function. *Annual Review of Neuroscience, 24*, 167-202.
- Miller, E. K., Erikson, C. A., & Desimone, R. (1996). Neural mechanisms of visual working memory in prefrontal cortex in the macaque. *Journal of Neuroscience, 16*, 5154-5167.
- Mitra, S. (1998). Postural costs of suprapostural task load. *Human Movement Science, 22*, 253-270.
- Mittelstaedt, H. (1998). Origin and processing of postural information. *Neuroscience and Biobehavioral Reviews, 22*, 475-478.
- Miyake, A., Friedman, N. P., Emerson, M. J., Witzki, A. H., & Howerter, A. (2000). The unity and diversity of executive functions and their contributions to complex “frontal lobe” tasks: A latent variable analysis. *Cognitive Psychology, 41*, 49-100.
- Molenaar, P. C. M. (2004). A manifesto on psychology as ideographic science: Bringing the person back into scientific psychology, this time forever. *Measurement, 2*, 201-218.
- Molenaar, P. C. M., Huizenga, H. M., & Nesselroade, J. R. (2003). The relationship between the structure of inter-individual and intra-individual variability: A theoretical and empirical vindication of developmental system theory. In U.M. Staudinger & U. Lindenberger

- (Eds.), *Understanding human development, Lifespan psychology in exchange with other disciplines* (pp. 339-360). Dordrecht, NL: Kluwer Academic.
- Molenaar, P. C. M. & Nesselroade J. R. (2001). Rotation in the dynamic factor modeling of multivariate stationary time series. *Psychometrika*, *66*, 99-107.
- Mouzat, A., Dabonneville, M., & Bertrand, P. (2004). The effect of feet position on orthostatic posture in a female sample group. *Neuroscience Letters*, *365*, 79-82.
- Myung, J., Kim, C., & Pitt, M. A. (2000). Toward an explanation of the power law artifact: Insights from response surface analysis. *Memory and Cognition*, *28*, 832-840.
- Navon, D. (1984). Resources: A theoretical soup stone? *Psychological Review*, *91*, 216-234.
- Navon, D. & Gopher, D. (1979). On the economy of the human-processing system. *Psychological Review*, *86*, 214-255.
- Nesselroade, J. R. (1991). The warp and the woof of the developmental fabric. In R. M. Downs, L. S. Liben, & D. S. Palermo (Eds.), *Visions of aesthetics, the environment and development: The legacy of Joachim F. Wohlwill*, (pp. 213-240). Hillsdale, NJ: Erlbaum.
- Nesselroade, J. R. (2002). Elaborating on the differential in differential psychology. *Multivariate Behavioral Research*, *37*, 543-561.
- Nesselroade, J. R. (2004). Intraindividual variability and short-term change. *Gerontology*, *50*, 44-47.
- Nesselroade, J. R., McArdle, J. J., Aggen, S. H., & Meyers, J. M. (2002). Dynamic factors analysis models for multivariate time-series analysis. In D. M. Moscovitz, S. L. Herschberger, & L. Scott (Eds.), *Modeling intraindividual variability with repeated measures data: Advances and techniques*, (pp. 235-265). Mahwah, NJ: Erlbaum.
- Nesselroade, J. R. & Molenaar, P. C. M (1999). Pooling lagged covariance structures based on short, multivariate time series for dynamic factor analysis. In R. H. Hoyle (Ed.), *Statistical strategies for small sample research* (pp. 223-250). Thousand Oaks, CA: Sage.
- Nesselroade, J. R. & Ram N. (2004). Studying intraindividual variability: What we have learned that will help us understand lives in context. *Research in Human Development*, *1*, 9-29.
- Nevitt, M. C., Cummings, S. R., Kidd, S., & Black, D. (1989). Risk factors for recurrent nonsyncopal falls. *Journal of the American Medical Association*, *261*, 2663-2668.
- Newell, K. M. (1998). Degrees of freedom and the development of postural center of pressure profiles. In K. M. Newell, M. & P. C. M. Molenaar,(Eds.), *Applications of nonlinear dynamics to developmental process modeling*, (pp. 63-84). Hillsdale, NJ: Erlbaum.
- Newell, K. M., Broderick, M. P., Deutsch, K. M., & Slifkin, A. B. (2003). Task goals and change in dynamic degrees of freedom with motor learning. *Journal of Experimental Psychology: Human Perception and Performance*, *29*, 379-387.

- Nezlek, J. B. (2001). Multilevel random coefficient analyses of event- and interval-contingent data in social and personality psychology research. *Personality and Social Psychology Bulletin*, 27, 771–785.
- Olsen, C. L. (1976). On choosing a test statistic in multivariate analysis of variance. *Psychological Bulletin*, 83, 579-586.
- Ouchi, Y., Okada, H., Yoshikawa, E., Nobezawa, S., & Futatsubashi, M. (1999). Brain activation during maintenance of standing postures in humans. *Brain*, 122, 329-338.
- Paige, G. D. (1991). The aging vestibular-ocular reflex (VOR). and adaptive plasticity. *Acta Otolaryngologica Supplement*, 481, 297-300.
- Pashler, H. (1992). Attentional limitations in doing two things at the same time. *Current Directions in Psychological Science*, 1, 44-48.
- Pellecchia, G. L. (2003). Postural sway increases with attentional demands of concurrent cognitive task. *Gait and Posture*, 18, 29-34.
- Peterka, R. J. (2002). Sensorimotor integration in human postural control. *Journal of Neurophysiology*, 88, 1097-1118.
- Peterka, R. J. & Loughlin, P. J. (2004). Dynamic regulation of sensorimotor integration in human postural control. *Journal of Neurophysiology*, 91, 410-423.
- Pincus, S. M. & Goldberger, A. L. (1994). Physiological time-series analysis: What does regularity quantify? *American Journal of Physiology*, 266, H1643-H1656.
- Pincus, S. M., Hartman, M. L., Roelfsema, F., Thorner, M. O., & Veldhuis, J. D. (1999). Hormone pulsatility discrimination via coarse and short time sampling. *American Journal of Physiology*, 40, E948-E957.
- Posner, M. I. (1980). Orienting of attention. *Quarterly Journal of Experimental Psychology*, 30, 3-25.
- Posner, M. I., Walker, J. A. Friedrich, F. J., & Rafal, R. D. (1987). How do the parietal lobes direct covert attention? *Neuropsychologia*, 25, 135-145.
- Rabbitt, P., Osman, P., Moore, B., & Stollery, B. (2001). There are stable individual differences in performance variability, both from moment to moment and from day to day. *Quarterly Journal of Experimental Psychology A: Human Experimental Psychology*, 54, 981-1003.
- Rabbitt, P., Lowe, C., & Shilling, V. (2001). Frontal tests and models for cognitive aging. *European Journal of Cognitive Psychology*, 13, 5-28.
- Ram, N., Rabbitt, P., Stollery, B., & Nesselroade, J. R. (2005). Cognitive performance inconsistency: Intraindividual change and variability. *Psychology and Aging*, 20, 623-633.
- Rao, C. V., Wolf, D. M., & Arkin, A. P. (2002). Control, exploitation and tolerance of intracellular noise. *Nature*, 420, 231-237.

- Rapp, M. A., Krampe, R. T., & Baltes, P. B. (2006). Adaptive task prioritization in aging: Selective resource allocation to postural control is preserved in Alzheimer disease. *American Journal of Geriatric Psychiatry, 14*, 52-61.
- Raudenbush, S. W., & Bryk, A. S. (2002). *Hierarchical linear models: Applications and data analysis methods* (2nd ed.). Thousand Oaks, CA: Sage.
- Raymakers, J. A. Samson, M. M., & Verhaar, H. J. J. (2005). The assessment of body sway and the choice of stability parameters. *Gait and Posture, 21*, 48-58.
- Raz, N., Lindenberger, U., Rodrigue, K. M., Kennedy, K. M., Head, D., Williamson, A., et al. (2005). Regional brain changes in aging healthy adults: General trends, individual differences, and modifiers. *Cerebral Cortex, 15*, 1676-1689.
- Redfern, M. S., Jennings, J. R., Martin, C., & Furman, J. M. (2001). Attention influences sensory integration for postural control in older adults. *Gait and Posture, 14*, 211-216.
- Riley, M. A., Baker, A. A., & Schmit, J. (2003). Inverse relation between postural variability and difficulty of a concurrent short-term memory task. *Brain Research Bulletin, 62*, 191-195.
- Riley, M. A., Baker, A. A., & Schmit, J. (2005). Effects of visual and auditory short-term memory tasks on the spatiotemporal dynamics and variability of postural sway. *Journal of Motor Behavior, 37*, 311-324.
- Riley, M. A., Stoffregen, T. A., Grocki, M. J., & Turvey, M. T. (1999). Postural stabilization for the control of touching. *Human Movement Science, 18*, 553-571.
- Ritter, F. & Schooler, L. J. (2001). The learning curve. In N. J. Smelser & P. B. Baltes (Eds.), *International encyclopedia of the social and behavioral sciences* (pp. 8602-8605). Oxford: Elsevier.
- Röcke, C., & Smith, C. (2004, November). *Feeling well and performing well? Age-related differences in the within-person coupling of daily emotional well-being and cognitive performance*. Paper presented at the 57th Annual Scientific Meeting of The Gerontological Society of America, Washington, D.C., USA.
- Roberts, R. D. & Pallier, G. (2001). Individual differences in performance on elementary cognitive tasks (ECTs): Lawful vs. problematic parameters. *The Journal of General Psychology, 128*, 279-314.
- Rushworth, M. F. S., Johansen-Berg, H., Göbel, S. M., & Devlin, J. T. (2003). The left parietal and premotor cortices: Motor attention and selection. *Neuroimage, 20*, S89-S100.
- Roberts, T. D. M. (1973). Reflex balance. *Nature, 244*, 56-57.
- Rowe, J., Friston, K., Frackowiak, R., & Passingham, R. (2002). Attention to action: Specific modulation of corticocortical interactions in humans. *Neuroimage, 17*, 988-998.
- Salthouse, T. A. (1992). Why do adult age-differences increase with task complexity? *Developmental Psychology, 28*, 905-918.

- Salthouse, T. A. & Berish, D. E. (2005). Correlates of within-person (across-occasion). variability in reaction time. *Neuropsychology*, *19*, 77-87.
- Sattin, R. W. (1992). Falls among older persons: A public health perspective. *Annual Review of Public Health*, *13*, 489-508.
- Sawaguchi, T., Matsamura, M., & Kubota, K. (1988). Dopamine enhances the neuronal activity of spatial short-term memory in the prefrontal primate cortex. *Neuroscience Research*, *5*, 465-473.
- Schäfer, S., Huxhold, O., & Lindenberger U. (in press). Healthy mind in healthy body? A review of sensorimotor-cognitive interdependencies in old age. *European Review of Aging and Physical Activity*.
- Scheibel, A. B. (1985). Falls, motor dysfunction, and correlative neurohistologic changes in the elderly. *Clinical Geriatric Medicine*, *1*, 671-677.
- Schmiedek, F., Huxhold, O., Röcke, C., Li, S.-C. Li, Lindenberger, U. (2005, November). *Modeling bivariate couplings of intraindividual variability*. Paper presented at the Gerontological Society of America's 58th Annual Scientific Meeting, Orlando, FL, USA.
- Schmiedek, F. & Li, S.-C. (2006). Die Lernkurve [The learning curve] (pp. XXX). J. Funke & P. A. Frensch (Eds.), *Handbuch der Allgemeinen Psychologie; Kognition*. Göttingen, Germany: Hogrefe.
- Schmiedek, F., & Li, S.-C. (2004, June). *Daily fluctuations of working memory performance in young and elderly adults*. Poster presented at the 18th Biennial Meeting of the International Society for the Study of Behavioural Development, Ghent, Belgium.
- Schmitz, B. (2000). Auf der Suche nach dem verlorenen Individuum: Vier Theoreme zur Aggregation von Prozessen. *Psychologische Rundschau*, *51*, 83-92.
- Schroots, J. J. F. & Yates, F. E. (1999). On the dynamics of development and aging. In V. L. Bengtson & K. W. Schaie (Eds.), *Handbook of theories of aging*, (pp. 417-433). New York: Springer.
- Segalowitz, N., Poulsen, C., Segalowitz, S. (1999). RT coefficient is differentially sensitive to executive control involvement in an attention switching task. *Brain and Cognition*, *40*, 255-258.
- Seidler, R. & Stelmach, G. (1996). Motor control. *Encyclopedia of gerontology: Age, aging, and the aged*, (pp.177-185). San Diego. CA.: Academic Press.
- Serences, J. T., Shomstein, S., Leber, A. B., Golay, X., Egeth, H. E., & Yantis, S. (2005). Coordination of voluntary and stimulus-driven attention control in the human cortex. *Psychological Science*, *16*, 114-122.

- Servan-Schreiber, D., Printz, H., & Cohen J. D. (1990). A network model of catecholamine effects: Gain, signal-to-noise ratio, and behavior. *Science*, *249*, 892-895.
- Shumway-Cook, A. & Wollacott, M. H. (2000). Attentional demands and postural control: The effect of sensory context. *Journal of Gerontology: Biological Sciences*, *55A*, M10-M16.
- Singer, J. D. & Willet, J. B. (2003). *Applied longitudinal data analysis: Modeling change and event occurrence*. Oxford: Oxford University Press.
- Singer, T., Lindenberger, U. & Baltes, P. B. (2003). Plasticity of memory for new learning in very old age: A story of major loss? *Psychology and Aging*, *18*, 306-317.
- Slifkin, A. B. & Newell, K. M. (1999). Noise, information transmission, and force variability. *Journal of Experimental Psychology: Human Perception and Performance*, *25*, 837-851.
- Sliwinski, M. & Buschke, H. (2004). Modeling intraindividual cognitive change in aging adults: Results from the Einstein Aging studies. *Aging Neuropsychology and Cognition*, *11*, 196-211.
- Slobounov, S., Hallett, M., Stanhope, S., & Shibasaki, H. (2005). Role of cerebral cortex in human postural control: An EEG study. *Clinical Neurophysiology*, *116*, 315-323.
- Slobounov, S., Tutwiler, R., Slobounova, E., Rearick, M., & Ray, W. (2000). Human oscillatory brain activity within gamma band (30-50 Hz). induced by visual recognition of non-stable postures. *Cognitive Brain Research*, *9*, 177-192.
- Smith, E. E. & Jonides, J. (1999). Storage and executive processes in the frontal lobes. *Science*, *283*, 1657-1661.
- Snijders, T. & Bosker, R. (1999). *An introduction to basic and advanced multilevel modeling*. London: Sage.
- Spieler, D. H., Balota, D. A., & Faust, M. E. (1996). Stroop performance in healthy younger and older adults and in individuals with dementia of the Alzheimer's type. *Journal of Experimental Psychology: Human Perception and Performance*, *22*, 461-479.
- Sowell, E. R., Peterson, B. S., Thompson, P. M., Welcome, S. E., Henkenius, A. L., & Toga, A. W. (2003). Mapping cortical change across the human life span. *Nature Neuroscience*, *6*, 309-315.
- Stelmach, G. E., Goggin, N. L., & Armeheim, P. C. (1988). Aging and preprogramming: The restructuring of planned movements. *Psychology and Aging*, *3*, 151-157.
- Stephan, K. M., Thaut, M. H., Wunderlich, G., Schicks, W., Tian, B., Tellmann, L., Schmitz, T., Herzog, H., McIntosh, G. C., Seitz, R. J., & Hömberg, V. (2002). Conscious and subconscious sensorimotor synchronization: Prefrontal cortex and the influence of awareness. *Neuroimage*, *15*, 345-352.
- Süß, H.-M., Oberauer, K., Wittmann, W. W., Wilhelm, O., & Schulze, R. (2002). Working-memory capacity explains reasoning ability and a little bit more. *Intelligence*, *30*, 261-288.



- Swan, L., Otani, H., Loubert, P. V., Sheffert, S. M., & Dunbar, G. L. (2004). Improving balance by performing a secondary cognitive task. *British Journal of Psychology*, *95*, 31-40.
- Teasdale, N. & Simoneau, M. (2001). Attentional demands for postural control: the effects of aging and sensory reintegration. *Gait and Posture*, *14*, 203-210.
- Thaler, D. S. (2002). Design for an aging brain. *Neurobiology of Aging*, *23*, 13-15.
- Thomas, J. D., Lee, T., & Suh, N. P. (2004). A function based framework for understanding biological systems. *Annual Review of Biophysic and Biomolecular Structure*, *33*, 75-93.
- Thelen, E. (1995). Motor development: A new synthesis. *American Psychologist*, *50*, 79-95.
- Turner, S., Mittermaier, C., & Ehrenberger, K. (2002). Change of complexity patterns in human posture during aging. *Audiology and Neurootology*, *7*, 240-248.
- Turner, S., Mittermaier, C., Hanel, R., & Ehrenberger, K. (2000). Scaling-violation phenomena and fractality in the human posture control systems. *Physical Review*, *62*, 4018-4024.
- Tisserand, D. J., van Boxtel, M. P. J., Pruessner, J. C., Hofman, P., Evans, A. C., & Joilles, J. (2004). A voxel-based morphometric study to determine individual differences in gray matter density associated with age and cognitive change over time. *Cerebral Cortex*, *14*, 966-073.
- Vaillancourt, D. E. & Newell, K. M. (2002). Changing complexity in human behavior and physiology through aging and disease. *Neurobiology of Aging*, *23*, 1-11.
- Vaillancourt, D. E. & Newell, K. M. (2003). Aging and the time and frequency structure of force output variability. *Journal of Applied Physiology*, *94*, 903-912.
- Vandervoort, A. A. (1992). Effects of aging on neuromuscular function: Implications for exercise. *Canadian Journal of Sport Science*, *17*, 178-184.
- Van Emmerik, R. E. A. & van Wegen, E. E. H. (2002). On the functional aspects of variability in postural control. *Exercise and Sport Science Reviews*, *30*, 177-183.
- Van Fleet, E. L. (1995). Slips, trips, & falls. [online]. *Facts and Resources*, *1(2)*, 1-2. Available: [www.cais.net/nsc](http://www.cais.net/nsc).
- Van Gelder, T. (1998). The dynamic hypothesis in cognitive science. *Behavioral and Brain Science*, *21*, 615-655.
- Verhaeghen, P. (2003). Aging and vocabulary scores: A meta-analysis. *Psychology and Aging*, *18*, 332-339.
- Verhaeghen, P. & Cerella, J. (2002). Aging, executive control, and attention: A review of meta-analyses. *Neuroscience and Biobehavioral Reviews*, *26*, 849-857.
- Verhaeghen, P., Kliegl, R., & Mayr, U. (1997). Sequential and coordinative complexity in time-accuracy functions for mental arithmetic. *Psychology and Aging*, *12*, 555-564.

- Verillo, R. T. & Verillo, V. (1985). Sensory and perceptual performance. In N. Charness (Ed.), *Aging and human performance*, (pp. 1-33). New York: Wiley.
- Vickers, D., Nettelbeck, T., & Willson, R. J. (1972). Perceptual indices of performance: The measurement of “inspection time” and “noise” in the visual system. *Perception*, 1, 263-295.
- Vuillerme, N. & Nougier, V. (2004). Attentional demand for postural sway: the effect of expertise in gymnastics. *Brian Research Bullettin*, 63, 161-165.
- Vuillerme, N. & Nougier, V., & Teasdale, N. (2000). Effects of reaction time task on postural control in humans. *Neuroscience Letters*, 291, 77-80.
- Wagenmakers E. J., Farrell S, & Ratcliff R. (2004). Estimation and interpretation of 1/f (alpha) noise in human cognition. *Psychonomic Bulletin and Review*, 11, 579-615.
- Wagenmakers, E. J., Farrell S., & Ratcliff, R. (2005). Human cognition and a pile of sand: A discussion on serial correlations and self-organized criticality. *Journal of Experimental Psychology: General*, 134, 108-116.
- Wald, A. (1943). Tests of statistical hypotheses concerning several parameters when the number of observations is large. *Transactions of the American Mathematical Society*, 54, 426-482.
- Ward, L. M. (2002). *Dynamic cognitive science*. Cambridge, MA: MIT Press.
- Wearden, J. A., Wearden, A. J., & Rabbitt, (1997). Age and IQ effects on stimulus and response timing. *Journal of Experimental Psychology: Human Perception and Performance*, 23, 239-251.
- Weeks, D. L., Forget, R., Mouchino, L., Gravel, D., & Bourbonnais D. (2003). Interaction between attention demanding motor and cognitive tasks and static postural stability. *Gerontology*, 49, 225-232.
- Welford, A. T. (1981). Signal, noise, performance, and age. *Human Factors*, 23, 97-109.
- West, R. (1999a). Age differences and lapses of intention in the Stroop task. *Journal of Gerontology: Psychological Science*, 54B, P34-P43.
- West, R. (1999b). Visual distraction, working memory, and aging. *Memory and Cognition*, 27, 1064-1072.
- West, R., Murphy, K. J., Armilio, M. L., Craik, F. I. M., & Stuss, D. T. (2002a). Lapses of intention and performance variability reveal age-related increases in fluctuations of executive control. *Brain and Cognition*, 49, 402-419.
- West, R., Murphy, K. J., Armilio, M. L., Craik, F. I. M., & Stuss, D. T. (2002b). Effects of time of day on age differences in working memory. *Journals of Gerontology: Psychological Science*, 57, P3-P10.
- Wilcox, R. R. (1987). New designs in the analysis of variance. *Annual Review of Psychology*, 38, 29-60.

- Wing, A. M. (2002). Voluntary timing and brain function: An information processing approach. *Brain and Cognition*, 48, 7-30.
- Winter, D. A. (1992). Human balance and postural control during standing and walking. *Gait and Posture*, 72, 45-53.
- Winter, D. A. (1995). Foot trajectory in human gait: A precise and multifactorial motor control task. *Physical Therapy*, 3, 193-214.
- Wolfson, L., Whipple, R., Derby, C. A., Amerman, P., & Nashner, L. (1994). Gender differences in the balance of healthy elderly as demonstrated by dynamic posturography. *Journals of Gerontology*, 49, M160-M167.
- Wolpert, D. M., Gharamani, Z., & Jordan, M. I. (1995). An internal model for sensorimotor integration. *Science*, 269, 1880-1882.
- Wolpert, D. M., Goodbody, S. J., & Husain, M. (1998). Maintaining internal representations: The role of the human superior parietal lobe. *Nature Neuroscience*, 1, 529-533.
- Woodruff-Pak, D. S. & Jaeger, M. E. (1998). Predictors of eyeblink classical conditioning over the adult age span. *Psychology and Aging*, 13, 193-205.
- Woollacott, M. H. (2000). Systems contributing to balance disorders in older adults. *Journals of Gerontology: A-Biological Sciences and Medical Sciences*, 55, M424-M428.
- Woollacott, M. H. & Shumway-Cook, A. (1990). Changes in posture control across the lifespan – A systems approach. *Physical Therapy*, 70, 799-807.
- Woollacott, M. H. & Shumway-Cook, A. (2002). Attention and the control of posture and gait: A review of an emerging area of research. *Posture & Gait*, 16, 1-14.
- Woollacott, M. H., Shumway-Cook, A., & Nashner, L. M. (1986). Aging and posture control: Changes in sensory organization and muscular coordination. *International Journal of Aging and Human Development*, 23, 97-114.
- Wulf, G., McNevin, N., & Shea, C. H. (2001). The automaticity of complex motor skill learning as a function of attentional focus. *Quarterly Journal of Experimental Psychology*, 54, 1143-1154.
- Wulf, G., Mercer, J. McNevin, N., & Guadagnoli, M.A. (2004). Reciprocal influence of attentional focus on postural control and suprapostural task performance. *Journal of Motor Behavior*, 36, 189-199.
- Yardley, L., Gardner, M., Leadbetter, A., & Lavie, N. (1999). Effect of articulatory and mental tasks on postural control. *Neuroreport*, 10, 215-219.