

CURRICULUM VITAE
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EDUCATION

1997 Ph.D. Experimental Psychology, University of Nijmegen, The Netherlands
1992 M.A. Experimental Psychology, University of Nijmegen, The Netherlands
1988 B.A. Psychology, University of Nijmegen, The Netherlands

PROFESSIONAL EXPERIENCE

2008- Assistant Professor, Department of Kinesiology, Louisiana State University,
Baton Rouge, LA, USA
2008- Adjunct Faculty, Department of Kinesiology, Arizona State University, Tempe,
AZ, USA
2008 Consultant (Fine motor control experiments), Neuroscript, Tempe, AZ, USA.
2005-2008 Associate Professor Research, Department of Kinesiology, Arizona State
University, Tempe, AZ, USA.
1999-2008 Special Project Associate (Visiting Scientist), Department of
Neurology, Mayo Clinic, Scottsdale, AZ, USA.
2004-2005 Consultant (Survey coordinator), Triad Consulting, Henderson, NV, USA.
2003-2004 Consultant (Fine motor control experiments), NeuroScript, Tempe, AZ, USA.
2002-2005 Faculty Research Associate, Department of Kinesiology (formerly Department
Exercise Science and Physical Education), Arizona State University, Tempe, AZ,
USA.
1999-2002 Faculty Research Associate, Department of Exercise Science and Physical
Education, Arizona State University, Tempe, AZ, USA.
1999 Consultant (Perceptual motor skills) NASA Johnson Space Center, Houston, TX,
USA.

- 1997-1999 Postdoctoral Research Associate, Motor Control laboratory, Arizona State University, Tempe, AZ, USA.
- 1996 Junior Researcher, Nijmegen Institute for Cognition and Information, and The Netherlands Forensic Science Laboratory, The Netherlands.
- 1996 Lecturer Assistant (Statistics I), University of Nijmegen, The Netherlands.
- 1995 Lecturer Assistant, (Laboratory instructor: Introduction to Experimental Psychology), Department of Psychology, University of Nijmegen, The Netherlands.
- 1993-1995 Lecturer (Motor Control and Statistics I), Department of Psychology, University of Nijmegen, The Netherlands.
- 1990-1991 Teaching Assistant (Statistics II), Department of Psychology, University of Nijmegen, The Netherlands.
- 1989 Research Assistant, Department of Psychology, University of Nijmegen, The Netherlands.

TEACHING (in USA)

- KIN 3513 Introduction to Motor Learning, (Fall 2008) Department of Kinesiology, Louisiana State University, Baton Rouge, LA, USA
- KIN 494 Laboratory course: Motor Behavior, Exercise Physiology, and Biomechanics (Coordinator Spring 2008), Department of Kinesiology, Arizona State University, Tempe, AZ
- ASU 101 The ASU experience (Fall 2007), College of Liberal Arts and Sciences, Arizona State University, Tempe, AZ
- KIN 345 Motor and Developmental Learning (Winter 2007), Department of Kinesiology, Arizona State University, Tempe, AZ.
- KIN 345 Motor and Developmental Learning (Summer 2004, Fall 2004, Fall 2005, Winter 2005, Spring 2006; Fall 2007; Guest-lecture: Parkinson's disease), Department of Kinesiology, Arizona State University, Tempe, AZ.
- KIN 421 Human Motor Control (Fall 2003), Department of Kinesiology, Arizona State University, Tempe, AZ.
- KIN 484 Internship Program (Supervisor; Spring 2004, Bazgha Ahmad, Kathleen Holmes; Fall 2004 and Spring 2005, Beth Barduson; Fall and Winter 2006, Deidre Greyeyes), Department of Kinesiology, Arizona State University, Tempe, AZ.
- KIN 494 Human Motor Control (Spring 2003), Department of Kinesiology, Arizona State University, Tempe, AZ.
- KIN 590 Reading and Conference (substitute class for students who registered for KIN 510 Introduction to Biomechanics Research Methods and KIN 610 Advanced Topics in Biomechanics; Spring 2005; team teaching, responsible for classes: Sampling Theory, and Data Processing), Department of Kinesiology, Arizona State University, Tempe, AZ.

BME 598 Human Systems Neuroscience (Fall 2006, Spring 2008; Guest-lecture: Pathologies of hand control), Harrington Department of Bioengineering, Arizona State University, Tempe, AZ.

EPE 494 Intermediate Motor Control (Spring 2000), Department of Exercise Science and Physical Education, Arizona State University, Tempe, AZ.

EPE 621 Tutorials in Motor Control (Fall 1999; co-teaching with Prof. George E. Stelmach), Department of Exercise Science and Physical Education, Arizona State University, Tempe, AZ.

GRADUATE COMMITTEES

Committee member Ph.D candidate Mostafa Afifi (2006), Arizona State University.

Committee member Ph.D candidate Chih-Chia Chen (2007), Arizona State University.

External committee member Ph.D project Jane Yank (2005). *Effects of disturbances on the periodicity of handwriting of children between the ages of 5-12 years*, University of Minnesota.

Committee member M.S. thesis Gregory J. Imlay (2003). *Isometric index finger force production in Parkinsonism and non-neurologically impaired individuals*, Arizona State University.

Ad-hoc committee member Ph.D thesis Diana H. Romero (2003). *Control of the eye and hand systems in goal-directed pointing*, Arizona State University.

HONORS

Invited Lecturer at Orthopedic/Neuro Update Sponsored by the Arizona Physical Therapy Association, Phoenix, January 29, 2005.

Invited Speaker at the annual meeting of the Arizona Chapter of the National Parkinson's Foundation, Phoenix, Arizona, November 2, 2002.

Invited Speaker at the Association of Forensic Document Examiners continuing education symposium, Phoenix, Arizona, November 4-7, 1999.

Invited Lecturer at the Independent Association of Questioned Document Examiners training seminar conducted in Scottsdale, Arizona, September 10, 1999.

NATO Fellow: Workshop on "Multisensory Control of Movement", ISAS-TECS, Trieste, Italy, 1994.

ERASMUS Graduate Research Student (European exchange program), Department of Psychology, University of Birmingham, Birmingham, United Kingdom, 1992.

EXTRAMURAL SERVICES

Advisory Council:

International Graphonomics Society, 2008-

Treasurer:

International Graphonomics Society, 2005-2007.

Secretary-Treasurer:

International Graphonomics Society, 2001-2005.

Ad-hoc member:

National Institute of Health, Clinical Sciences Special Emphasis Panel, 1999, 2000.

Ad-hoc grant proposal reviewer:

Alzheimer's Association, Research Grant Program, 2005, 2008.

National Science Foundation, BCS Perception, Action, and Cognition, 2005.

Ad-hoc manuscript reviewer:

Motor Control, Psychological Reports/Perceptual Motor Skills, Experimental Neurology, Journal of Sport and Exercise Psychology, Psychonomic Bulletin and Review, Neuropsychology, IEEE/Transactions on Neural Systems and Rehabilitation Engineering, NeuroImage, Journal of Neurology, Neurosurgery, and Psychiatry, Acta Psychologica, Journal of Forensic Document Examination.

Guest Editor:

Human Movement Sciences, Volume 25, 447-694 (Special double issue: Advances in graphonomics: Studies on fine motor control, its development and disorders), 2006.

Journal of Forensic Document Examination, Volume 16, 1-148 (Special issue: Selected paper of the 11th International Graphonomics Society meeting), 2004.

Motor Control, Volume 8, 367-566 (Special issue: Connecting sciences using graphonomic research), 2004.

International Journal of Pattern Recognition and Artificial Intelligence, Volume 18, 1131-1371 (Special issue: Connecting graphonomic research and pattern recognition), 2004.

Human Movement Sciences, Volume 22, 131-220 (Special issue: Advances in the study of drawing and handwriting), 2003.

Co-editor:

Proceedings of the 11th Conference of the International Graphonomics Society (IGS2003), 2-5 November 2003, Scottsdale, Arizona, USA.

Co-organizer symposium:

Motor Control: Trends and Perspectives. Arizona State University, May 20-21, 2004, Tempe, Arizona, USA.

Chair:

Organizing committee of the 11th Biennial Conference of the International Graphonomics Society, November 2-5, 2003, Scottsdale, Arizona, USA.

Member:

Steering committee of the 14th Biennial Conference of the International Graphonomics Society, 2009, Dijon, France.

Steering committee of the 13th Biennial Conference of the International Graphonomics Society, November, 2007, Melbourne, Australia.

Steering committee of the 12th Biennial Conference of the International Graphonomics Society, June 26-29, 2005, Salerno, Italy.

Program committee of the 10th Biennial Conference of the International Graphonomics Society, August 6-8, 2001, Nijmegen, The Netherlands.

Neuroscript Launch pad panel, ASU Technopolis, Tempe, January 19, 2005, Tempe, Arizona, USA.

Judge:

The Annual Student Symposium of 2007 on Research in Interdisciplinary Science and Engineering (RISE'07), Memorial Union, Arizona State University, October 4, 2007.

The 7th annual Graduates in the Earth, Life, and Social Sciences research symposium, Old Main, Arizona State University, February 17, 2006, Tempe, Arizona, USA.

The 2002 Graduates in the Earth, Life, and Science research symposium, Old Main, Arizona State University, February 15, 2002, Tempe, Arizona, USA.

Board member:

Faculty Union for Psychology Students (De Psychologenbond), University of Nijmegen, The Netherlands, 1988 - 1991.

Representative:

Faculty Union for Psychology Students in the consultative body of all Faculty Unions in Nijmegen, The Netherlands, 1988 - 1990.

Student member:

Library board of the Faculty of Social Sciences, University of Nijmegen, 1990 - 1991.

Library board of the department of Psychology, University of Nijmegen, 1989-1990.

PROFESSIONAL AFFILIATIONS (current)

American Psychological Association, 1991-
(regular member since 1998)

Divisions:

Experimental Psychology (3),
Rehabilitation Psychology (22),
Clinical Neuropsychology (40).

International Graphonomic Society, 1993-
Advisory Council Member, 2008-
Treasurer, 2005-2007

Secretary-Treasurer, 2001-2005

Society for Neuroscience, 1998-

LIST OF PUBLICATIONS (alphabetical)

ARTICLES

- Bohan, M., Longstaff, M. G., **Van Gemmert, A. W. A.**, Rand, M. K., & Stelmach, G. E. (2003). Differential effects of target height and width on 2D aiming movement duration and kinematics. *Motor Control*, 7, 278-289.
- Dounskaia, N., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (2000). Interjoint coordination during handwriting-like movements. *Experimental Brain Research*, 135, 127-140.
- Guadagnoli, M. A., Leis, B., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (2002). The relationship between knowledge of results and motor learning in Parkinsonian patients. *Parkinsonism and Related Disorders*, 9, 89-95.
- 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 and Social Sciences*, 57B, P54-P64.
- Leis, B. C., Rand, M. K., **Van Gemmert, A. W. A.**, Longstaff, M., Lou, J. S., & Stelmach, G. E. (2005). Movement precues in planning and execution of aiming movements in Parkinson's disease. *Experimental Neurology*, 194, 393-409.
- Longstaff M. G., Mahant, P. R., Stacy, M. A., **Van Gemmert, A. W. A.**, Leis, B. C., & Stelmach, G. E. (2003). Discrete and dynamic scaling of the size of continuous graphic movements of parkinsonian patients and elderly controls. *Journal of Neurology, Neurosurgery, and Psychiatry*, 74, 299-304.
- Meulenbroek, R. G. J., & **Van Gemmert, A. W. A.** (2003). Advances in the study of drawing and handwriting. *Human Movement Science*, 22, Special issue 131-135.
- Paine, R. W., Grossberg, S., & **Van Gemmert, A. W. A.** (2004). A quantitative evaluation of the AVITEWRITE model of handwriting learning. *Human Movement Science*, 23, 837-860.
- Poston, B., **Van Gemmert, A. W. A.**, Barduson, B., & Stelmach, G. E. (In Press). Movement structure in young and elderly adults during goal-directed movements of the left and right arm. *Brain and Cognition*.
- Rand, M. K., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (2002). Segment difficulty in two-stroke movements in patients with Parkinson's disease. *Experimental Brain Research*, 143, 383-393.
- Robertson, S. D., **Van Gemmert, A. W. A.**, & Maraj, B. K. V. (2002). Auditory information is beneficial for adults with Down syndrome in a continuous bimanual task. *Acta Psychologica*, 110, 213-229.
- Romero, D. H., **Van Gemmert, A. W. A.**, Adler, C. H., Bekkering, H., & Stelmach, G. E. (2003). Time delays prior to movement alter the drawing kinematics of elderly adults. *Human Movement Science*, 22, 207-220.

- Romero, D. H., **Van Gemmert, A. W. A.**, Adler, C. H., Bekkering, H. & Stelmach, G. E. (2003). Altered aiming movements in Parkinson's disease patients and elderly adults as a function of delays in movement onset. *Experimental Brain Research*, *151*, 249-261.
- Teulings, H. L., & **Van Gemmert, A. W. A.** (2004). Connecting graphonomic research and pattern recognition. *International Journal of Pattern Recognition and Artificial Intelligence*, *18*, Special issue 1131-1137.
- Van Den Heuvel, C. E., Van Galen, G. P. Teulings, H. L., & **Van Gemmert, A. W. A.** (1998). Axial pen force increases with processing demands in handwriting. *Acta Psychologica*, *100*, 145-159.
- Van Den Heuvel, C. E., & **Van Gemmert, A. W. A.** (2000). Nonspecific motor preparation and the motor action limit. *Current Psychology Letters: Behaviour, Brain and Cognition*, *2*, 92-111.
- Van Galen, G. P., Müller, M. L. T. M., Meulenbroek, R. G. J., & **Van Gemmert, A. W. A.** (2002). Forearm EMG response activity during motor performance in individuals prone to increased stress activity. *American Journal of Industrial Medicine*, *41*, 406-419.
- Van Galen, G. P., & **Van Gemmert, A. W. A.** (1996). Kinematic and dynamic features of forging another person's handwriting. *Journal of Forensic Document Examination*, *9*, 1-25.
- Van Gemmert, A. W. A.** (1999). The study of kinematics of graphic tasks: A forensic perspective. *Bulletin of the International Graphonomics Society*, *13*(2), 35-38.
- Van Gemmert, A. W. A.**, Adler, C. H., & Stelmach, G. E. (2003). Parkinson's disease patients undershoot target size in handwriting and similar tasks. *Journal of Neurology, Neurosurgery, and Psychiatry*, *74*, 1502-1508.
- Van Gemmert, A. W. A.**, & Teulings, H. L. (2006). Advances in graphonomics: Studies on fine motor control, its development and disorders. *Human Movement Science*, *25*, 447-453.
- Van Gemmert, A. W. A.**, & Teulings, H. L. (2004). Connecting sciences using graphonomic research. *Motor Control*, *8*, Special issue 367-370.
- Van Gemmert, A. W. A.**, Teulings, H. L., Contreras-Vidal, J. L., & Stelmach, G. E. (1999). Parkinson's disease and the control of size and speed in handwriting. *Neuropsychologia*, *37*, 685-694.
- Van Gemmert, A. W. A.**, Teulings, H. L., & Stelmach, G. E. (2001). Parkinsonian patients reduce their stroke size with increased processing demands. *Brain and Cognition*, *47*, 504-512.
- Van Gemmert, A. W. A.**, Teulings, H. L., & Stelmach, G. E. (1998). The influence of mental and motor load on handwriting movements in Parkinsonian patients. *Acta Psychologica*, *100*, 161-175.
- Van Gemmert, A. W. A.**, & Van Galen, G. P. (1998). Auditory stress effects on preparation and execution of graphical aiming: A test of the neuromotor noise concept. *Acta Psychologica*, *98*, 81-101.
- Van Gemmert, A. W. A.**, & Van Galen, G. P. (1997). Stress, neuromotor noise, and human performance: A theoretical perspective. *Journal of Experimental Psychology: Human Perception and Performance*, *23*, 1299-1313.

CHAPTERS IN EDITED BOOKS

- Van Gemmert, A. W. A., & Van Galen, G. P.** (1996). Dynamic features of mimicking another person's writing and signature. In M. L. Simner, C. G. Leedham, and A. J. W. M. Thomassen (Eds.), *Handwriting and drawing research: Basic and applied issues* (pp. 459-471). Amsterdam: IOS Press.
- Van Gemmert, A. W. A., & Van Galen, G. P.** (1994). Effects of a secondary, auditory task on graphic aiming movements. In C. Faure, P. Keuss, G. Lorette, and A. Vinter (Eds.), *Advances in Handwriting and Drawing: A Multidisciplinary Approach* (pp 421-439). Paris: Europia.

PROCEEDINGS EDITOR

- Teulings, H. L., & **Van Gemmert, A. W. A.** (2003), *Proceedings of the 11th conference of the International Graphonomics Society*. Nijmegen: IGS.

ABSTRACTS

- Adler, C. H., **Van Gemmert, A. W. A.**, Teulings, H. L., & Stelmach, G. E. (2003). A quantitative analysis of the production of the Archimedes spiral in Parkinson's disease patients and controls. In H. L. Teulings and A. W. A. Van Gemmert (Eds.), *Proceedings of the 11th conference of the international graphonomics society* (pp. 119-122). Nijmegen: IGS.
- Alvarez, M. V., **Van Gemmert, A. W. A.**, Evidente, V. G. H., Caviness, J. N., Driver-Dunckley, E. D., Lyons, M. H., & Adler, C. H. (2008). Deep brain stimulation of STN improves some handwriting movement in Parkinson's disease patients. *Movement Disorders*, 23(Suppl 1), S126.
- Bohan, M., Longstaff, M. G., **Van Gemmert, A. W. A.**, Rand, M. K., & Stelmach, G. E. (2001). The effects of target shape on movement duration and kinematics for younger and older adults. *Proceedings of the 6th Annual International Conference on Industrial Engineering - Theory, Applications, and Practice* (8 pages), San Francisco: California.
- Broderick, M. P., **Van Gemmert, A. W. A.**, Shill, H. A., & Stelmach, G. E. (2004). Hypometria during drawing movements in individuals with Parkinson's disease. *Motor Control: Trends and Perspectives; A Symposium* (pp. 33), Tempe: ASU.
- Broderick, M. P., **Van Gemmert, A. W. A.**, Shill, H. A., & Stelmach, G. E. (2004). Influence of frequency and weight conditions on graphic movements of Parkinson's disease patients. *Society for Neuroscience Abstracts* (Program No. 181.17), Online.
- Dounskaia, N., Stelmach, G. E., & **Van Gemmert, A. W. A.** (1999). Preferences in interjoint coordination during hand movements. *Society for Neuroscience Abstracts* (pp. 1916), 25.
- Dounskaia, N., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (2000). Interojoint coordination during handwriting-like movements. *Program and Abstracts of the Tenth Annual Meeting of Neural Control of Movement* (P-8), 5. Key West: Florida.

- Hardy, H. J. J., Van Galen, G. P., & **Van Gemmert, A. W. A.** (1998). Effects of slowing: A comparison of age-related slowing and task-related slowing. In W. P. De Jong (Ed.), *Proceedings III International Congress of the Gesellschaft fuer Forensische Schriftuntersuchung (GFS)*. Luzern.
- Hardy, H. J. J., Van Galen, G. P., **Van Gemmert, A. W. A.**, & Thomassen, A. J. W. M. (1998). Dynamical features of disguised handwriting. In W. P. De Jong (Ed.), *Proceedings III International Congress of the Gesellschaft fuer Forensische Schriftuntersuchung (GFS)*. Luzern.
- Hatfield, B. D., Contreras-Vidal, J. L., & **Van Gemmert, A. W. A.** (2002). A multilevel approach to the understanding of cognitive-motor behavior: From neurobiology to conceptual modeling. *Journal of Sport & Exercise Psychology*, *24*, S14-S15.
- Hughes, B. & **Van Gemmert, A. W. A.** (2008). "What finger movements reveal about braille reading". *Perception*, *37*(Suppl ECVF), 133.
- Hughes, B., & **Van Gemmert, A. W. A.** (2008). Perceptual-motor control and language processing contributions to braille reading velocity. *20th Annual Convention of the Association for Psychological Science* (Program No. VII-133), Online
- Ketcham, C. J., **Van Gemmert, A. W. A.**, Seidler, R. D., Stelmach, G. E., & Teulings, H. L. (1999). Movement kinematics and speed-accuracy constraints in Parkinson's disease. *Society for Neuroscience Abstracts* (pp. 375), 25.
- Leis, B. C., **Van Gemmert, A. W. A.**, Longstaff, M. G., Rand, M. K., Mahant, P. R., Teulings, H. L., & Stelmach, G. E. (2001). Movement precues in planning and execution of arm movement in Parkinson's disease. *Society for Neuroscience Abstracts* (Program No. 832.4), 27.
- Leis, B. C., **Van Gemmert, A. W. A.**, Lou, J. S., & Stelmach, G. E. (1999). Movement planning and execution operations in Parkinson's disease. *Society for Neuroscience Abstracts* (pp. 2113), 25.
- Leis, B. C., **Van Gemmert, A. W. A.**, Lou, J. S., & Stelmach, G. E. (1999). Planning operations underlying movement initiation and execution in Parkinson's disease: The use of precue information. *Building Competitive Research Careers: A Symposium* (pp. 22). Tucson, AZ; University of Arizona.
- Longstaff, M. G., Mahant, P. R., Stacy, M. A., **Van Gemmert, A. W. A.**, Leis, B. C., & Stelmach, G. E. (2001). Continuously scaling a continuous movement: Parkinsonian patients choose a smaller scaling ratio and produce more variable movements compared to elderly controls. In R. G. J. Meulenbroek and B. Steenbergen (Eds.), *Proceedings of the 10th biennial conference of the international graphonomics society* (pp. 84-89). Nijmegen: IGS.
- Longstaff, M. G., Stacy, M. A., Mahant, P. R., **Van Gemmert, A. W. A.**, Leis, B. C., & Stelmach, G. E. (2001). Discretely scaling a continuous movement: Parkinson's disease patients have more variable movement trajectories. *Society for Neuroscience Abstracts* (Program No. 832.3), 27.
- Poston, B., **Van Gemmert, A. W. A.**, Barduson, B., & Stelmach, G. E. (2007). Movement substructure in the left and right arms of young and elderly adults during goal-directed arm movements. *Progress In Motor Control VI: A Multidisciplinary Perspective*. Santos, Brazil.

- Rand, M. K., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (2000). Effects of segment difficulties on movements with two-stroke sequence in Parkinson's patients. *Society for Neuroscience Abstracts* (pp. 163), 26.
- Ringenbach, S. D. R., **Van Gemmert, A. W. A.**, Shill, H. A., & Stelmach, G. E. (2005). Cue benefits on drawing tasks in Parkinsonian patients depend on task requirements. *Society for Neuroscience Abstracts* (Program No. 757.9), Online.
- Romero, D. H., **Van Gemmert, A. W. A.**, Adler, C. H., Bekkering, H., & Stelmach, G. E. (2001). Time delays prior to movement alter the drawing kinematics of elderly adults. In R. G. J. Meulenbroek and B. Steenbergen (Eds.), *Proceedings of the 10th biennial conference of the international graphonomics society* (pp. 114-118). Nijmegen: IGS.
- Romero, D. H., **Van Gemmert, A. W. A.**, Adler, C. H., Bekkering, H., & Stelmach, G. E. (2000). Vision does not compensate for time delays between hand positioning and movement onset in Parkinson's disease patients. *Society for Neuroscience Abstracts* (pp. 163), 26.
- Traustadottir, T., Bosch, P., **Van Gemmert, A. W. A.**, & Matt, K. S. (2001). Gender differences in the HPA axis response to a stress reactivity protocol. *Society for Neuroscience Abstracts* (Program No. 174.18), 27.
- Teulings, H. L., Romero, D. H., & **Van Gemmert, A. W. A.** (2004). Advancements in recording and analysis of fine-motor movements. *Motor Control: Trends and Perspectives; A Symposium* (pp. 9), Tempe: ASU.
- Teulings, H. L., & **Van Gemmert, A. W. A.** (2003). Goal-directed movements in menu selection in computer user interfaces. In H. L. Teulings and A. W. A. Van Gemmert (Eds.), *Proceedings of the 11th conference of the international graphonomics society* (pp. 99-102). Nijmegen: IGS.
- Van Den Heuvel, C. E., Los, S. A., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (1998). Motor preparation during the foreperiod. *Abstracts of the 10th congress of the European Society for Cognitive Psychology* (pp. 202). Israel: Dan Knassim.
- Van Den Heuvel, C. E., Van Galen, G. P., & **Van Gemmert, A. W. A.** (1997). Restoring the perception-action equilibrium after on-line rescaling of the visual feedback of the writing trace. In A. M. Colla, F. Masulli, and P. Morasso (Eds.), *Proceedings of the 8th international conference on handwriting and drawing* (pp. 51-52). Nijmegen: IGS.
- Van Den Heuvel, C. E., & **Van Gemmert, A. W. A.** (2006). On the break-down of spatial and temporal characteristics in forged handwriting. *Programme and Abstracts of the 4th European Academy of Forensic Science*. Helsinki: ENFSI.
- Van Den Heuvel, C. E., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (1999). Nonspecific motor preparation during the foreperiod in an aiming task. In G. Leedham, M. Leung, V. Sagar, and X. Xuhong (Eds.), *Proceedings of the 9th biennial conference of the international graphonomics society* (pp. 31-36). Nijmegen: IGS.
- Van Galen, G. P., & **Van Gemmert, A. W. A.** (1995). Dynamic features of mimicking another person's handwriting. In M. L. Simner (Ed.), *Proceedings of the 7th international conference on basic and applied issues in handwriting and drawing research* (pp. 158-159). London (Ontario): Phylmar Associates.

- Van Galen, G. P., & **Van Gemmert, A. W. A.** (1995). Psychomotor effects of forging another person's handwriting. *Abstracts of the 5th conference of the Dutch Society for Psychonomics* (pp. 25).
- Van Gemmert, A. W. A.** (2004). Effects of Parkinson's disease on handwriting. *Motor Control: Trends and Perspectives; A Symposium* (pp. 18), Tempe: ASU.
- Van Gemmert, A. W. A.**, Adler, C. H., & Stelmach, G. E. (2005). Limb involvement and aiming movement complexity in Parkinson's disease patients and older adults. *Society for Neuroscience Abstracts* (Program No. 757.12), Online.
- Van Gemmert, A. W. A.**, Adler, C. H., & Stelmach, G. E. (2003). Motor Load in drawing movements of Parkinson's disease patients. *Society for Neuroscience Abstracts* (Program No. 71.16), Online.
- Van Gemmert, A. W. A.**, Adler, C. H., & Stelmach, G. E. (2001). The isochronic size range is reduced in handwriting of Parkinsonian patients. In R. G. J. Meulenbroek and B. Steenbergen (Eds.), *Proceedings of the 10th biennial conference of the international graphonomics society* (pp. 36-39). Nijmegen: IGS.
- Van Gemmert, A. W. A.**, Adler, C. H., & Stelmach, G. E. (1999). Reduced range of isochronic writing size in Parkinson's disease patients. *Society for Neuroscience Abstracts* (pp. 909), 25.
- Van Gemmert, A. W. A.**, Adler, C. H., Teulings, H. L., & Stelmach, G. E. (2006). Stroke size modulation in spiral drawing and handwriting of de novo and levodopa treated Parkinson's disease patients. *Arizona Biosciences Leadership Symposium: Building Collaborations*, Addendum, 122.
- Van Gemmert, A. W. A.**, Adler, C. H., Teulings, H. L., & Stelmach G. E. (2004). Differential effects on handwriting and spiral drawing movements in de novo and levodopa treated Parkinson's disease patients. *Society for Neuroscience Abstracts* (Program No. 1011.14), Online.
- Van Gemmert, A. W. A.**, & Stelmach, G. E. (2002). Increased motor processing demands reduce stroke size in Parkinsonian handwriting. *Journal of Sport & Exercise Psychology*, 24, S16.
- Van Gemmert, A. W. A.**, & Stelmach, G. E. (2000). Parkinson's disease patients have difficulty in the coordination of proximal joints. *Society for Neuroscience Abstracts* (pp. 163), 26.
- Van Gemmert, A. W. A.**, & Stelmach, G. E. (1997). The effects of stress on a continuous movement task. *Abstracts of the 3rd annual Biomedical Symposium of the Flinn Foundation* (#57).
- Van Gemmert, A. W. A.**, Teulings, H. L., & Stelmach, G. E. (1999). Parkinsonian patients reduce their stroke size with increased programming load. In G. Leedham, M. Leung, V. Sagar, and X. Xuhong (Eds.), *Proceedings of the 9th biennial conference of the international graphonomics society* (pp. 231-236). Nijmegen: IGS.
- Van Gemmert, A. W. A.**, Teulings, H. L., & Stelmach, G. E. (1998). Increased motor programming load reduces movement amplitude in Parkinsonian patients. *Society for Neuroscience Abstracts* (pp. 1949), 24.

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- Van Gemmert, A. W. A.,** & Van Galen, G. P. (1995). Psychomotor features of copying another person's signature. In M. L. Simner (Ed.), *Proceedings of the 7th international conference on basic and applied issues in handwriting and drawing research* (pp. 160-161). London (Ontario): Phylmar Associates.
- Van Gemmert, A. W. A.,** & Van Galen, G. P. (1993). Effects of a secondary, auditory task on graphic aiming movements. In C. Faure (Ed.), *Proceedings of the 6th international conference on handwriting and drawing* (pp 156-158). Paris: Telecom.
- Van Gemmert, A. W. A.,** Van Galen, G. P., & Hardy, H. J. J. (1997). Effects of slowing: A comparison of age-related slowing and task-related slowing. In A. M. Colla, F. Masulli, and P. Morasso (Eds.), *Proceedings of the 8th international conference on handwriting and drawing* (pp. 133-134). Nijmegen: IGS.
- Van Gemmert, A. W. A.,** Van Galen, G. P., & Hardy, H. J. J. (1996). Dynamical features of disguised handwriting. Abstract. *Programme and Abstracts of the 5th European Conference for Police and Government Handwriting Experts* (1 page). The Hague, November 13-15, 1996.
- Van Gemmert, A. W. A.,** Van Galen, G. P., Hardy, H. J. J., & Thomassen, A. J. W. M. (1996). Dynamical features of disguised handwriting. *Proceedings of the 5th European Conference for Police and Government Handwriting Experts* (22 pages). Rijswijk: Netherlands Forensic Science Laboratory.

DISSERTATIONS

- Van Gemmert, A. W. A.** (1997). *The effects of mental load and stress on the dynamics of fine motor tasks*. Ph.D. Thesis, University of Nijmegen, The Netherlands, (ISBN 90 373 0384 6) Nijmegen: NICI.
- Van Gemmert, A. W. A.** (1992). *De effecten van auditieve stimuli op doelgerichte motoriek: Een chronometrische en spectraal analyse* [The effects of acoustic stimuli on goal-aimed movements: A chronometrical and spectral analysis]. Master's thesis, NICI University of Nijmegen, The Netherlands.

NON-ENGLISH PUBLICATIONS

- De Jong, W. P., & **Van Gemmert, A. W. A.** (1994). Afname van de Complex Figure Test met een schrijftablet [Using a digitizer tablet for the Complex Figure Test]. *Psychologie & Computers, 11*, 123-129.
- Van Galen, G. P., Van Huygevoort, M., & **Van Gemmert, A. W. A.** (1997). Zijn motorische missers groter bij stress en tijdsdruk? [Are motorical failures bigger under stress and time pressure?]. *Abstracts of the 6th conference of the Dutch Society for Psychonomics* (pp. 39-40).
- Van Gemmert, A. W. A.**, & Van Galen, G. P. (1993). Pendrukverhoging als biomechanische strategie voor de controle van stress effecten in motorische taken [Penpressure increase as a biomechanical tool for controlling effects of stress during motor control]. *Abstracts of the 4th conference of the Dutch Society for Psychonomics* (pp. 20-21).
- Van Gemmert, A. W. A.** (2005). De ziekte van Parkinson bemoeilijkt het leesbaar schrijven [Parkinson's disease hampers writing legibly]. *Papaver: Parkinson Patiënten Vereniging, 28*(3), 7-9.

SELECTED LECTURES/PRESENTATIONS (not included in abstracts)

- Dounskaia, N., Stelmach, G. E., & **Van Gemmert, A. W. A.** (1999). Preferences in interjoint coordination during hand movements. Poster presented at the *Arizona Chapter of the Society for Neuroscience Meeting*, DuBois Center, Northern Arizona University, Flagstaff, Arizona, November 6.
- Dounskaia, N., **Van Gemmert, A. W. A.**, & Stelmach, G. E. (2000). Interjoint coordination during handwriting-like movements. Poster presented at the *Brain Day*, Memorial Union, Arizona State University, Tempe, Arizona, March 7.
- Ketcham, C. J., **Van Gemmert, A. W. A.**, Seidler, R. D., Stelmach, G. E., & Teulings, H. L. (1999). Movement kinematics and speed-accuracy constraints in Parkinson's disease. Poster presented at the *Arizona Chapter of the Society for Neuroscience Meeting*, DuBois Center, Northern Arizona University, Flagstaff, Arizona, November 6.
- Leis, B. C., **Van Gemmert, A. W. A.**, Rand, M. K., & Stelmach, G. E. (2000). Precues, movement initiation, and execution in idiopathic Parkinson's disease. Oral presentation at *The First Annual International Arizona Research Conference*, Mesa, Arizona, March 24.
- Leis, B. C., **Van Gemmert, A. W. A.**, Lou, J. S., Rand, M. K., & Stelmach, G. E. (2000). Movement planning and execution operations in Parkinson's disease. Poster presented at *Brain Day*, Memorial Union, Arizona State University, Tempe, Arizona, March 7.
- Leis, B. C., **Van Gemmert, A. W. A.**, Lou, J. S., & Stelmach, G. E. (1999). Movement planning and execution operations in Parkinson's disease. Poster presented at the *Arizona Chapter of the Society for Neuroscience Meeting*, DuBois Center, Northern Arizona University, Flagstaff, Arizona, November 6.
- Van Gemmert, A. W. A.** (2008). Handwriting and Parkinson's disease: An approach to study movement control and disorders. *Research presentation for the Department of Kinesiology*, Louisiana State University, Baton Rouge, Louisiana, January 22.

- Van Gemmert, A. W. A.** (2006). Handwriting and Parkinson's disease: An approach to study motor control. *ESS Seminar Series*, Department of Exercise and Sport Science, University of North Carolina at Greensboro, Greensboro, North Carolina, February 28.
- Van Gemmert, A. W. A.** (2005). Handwriting and Parkinson's disease: An approach to study movement disorders. *Department of Kinesiology Seminars*, Department of Kinesiology, Arizona State University, Tempe, Arizona, September 14.
- Van Gemmert, A. W. A.** (2005). Handwriting and Parkinson's disease: An approach to study movement disorders. Invited Speaker in *Brown Bag Seminar Series*, Department of Kinesiology, University of Minnesota, Minneapolis, Minnesota, June 3.
- Van Gemmert, A. W. A.** (2005). Handwriting: A fine motor task affected by Parkinson's disease. Invited Lecture *Orthopedic/Neuro Update sponsored by the Arizona Physical Therapy Association*, Phoenix, Arizona, January 29.
- Van Gemmert, A. W. A.** (2004). Participation in a study of the Motor Control Laboratory at Arizona State University. Invited Speaker *Parkinson's Support Group Mesa*, Mesa, Arizona, November 15.
- Van Gemmert, A. W. A.** (2004). Handwriting and Parkinson's disease: An approach to study movement disorders. Invited Lecture in *Friday's Doings in Motor Control*, Department of Physiology, College of Medicine, University of Arizona, Tucson, Arizona, April 2.
- Van Gemmert, A. W. A.** (2003). Handwriting research: Experiments in fine motor control. Invited Speaker at the *Phoenix Chapter of the National Association of Retired Federal Employees*, Phoenix, Arizona, June 12.
- Van Gemmert, A. W. A.** (2002). How do Parkinson's disease and stress affect handwriting? Invited Speaker at the annual meeting of the *Arizona Chapter of the National Parkinson's Foundation*, Phoenix, Arizona, November 2.
- Van Gemmert, A. W. A.** (2002). Effects of mental load and Parkinson's disease on handwriting-like tasks. Netherlands Business Association Arizona, Scottsdale, Arizona, September 18.
- Van Gemmert, A. W. A.** (2002). Effects of stress, mental load, and Parkinson's disease on handwriting-like tasks. Invited Lecture at the *School of Kinesiology*, University of Minnesota, Minneapolis, Minnesota, April 16.
- Van Gemmert, A. W. A.** (2001). Stress, mental load, and Parkinson's disease: How do they affect handwriting? Invited Lecture at the *Department of Kinesiology*, University of Maryland, College Park, Maryland, November 30.
- Van Gemmert, A. W. A.** (2001). The effects of Parkinson's disease on fine motor tasks. Invited Speaker at the *Sun City Parkinson's Support Group*, Sun City West, Arizona, October 16.
- Van Gemmert, A. W. A.** (2001). Handwriting and Parkinson's disease: Searching for the origin of micrographia. Invited Lecture at the *Department of Health and Performance Sciences Seminar*, Georgia Institute of Technology, Atlanta, Georgia, May 3.
- Van Gemmert, A. W. A.** (1999). Effects of Parkinson's disease, stress, and psychomotor load on the kinematics of graphic tasks. Invited Speaker at the *Association of Forensic Document Examiners continuing education symposium*, Phoenix, Arizona, November 4-7.

- Van Gemmert, A. W. A.** (1999). Features of fine motor control: The importance of temporal properties of normal, forged, and disguised handwriting. Invited Lecturer at the *Independent Association of Questioned Document Examiners training seminar*, Scottsdale, Arizona, September 10.
- Van Gemmert, A. W. A., Adler, C. H., & Stelmach, G. E.** (1999). Parkinson's disease patients have a reduced isochronic size range in handwriting. Poster presented at the *Arizona Chapter of the Society for Neuroscience Meeting*, DuBois Center, Northern Arizona University, Flagstaff, Arizona, November 6.
- Van Gemmert, A. W. A., Adler, C. H., Teulings, H. L., & Stelmach, G. E.** (2006). Stroke size modulation in spiral drawing and handwriting of de novo and levodopa treated Parkinson's disease patients. *The 2nd annual ASU / Mayo Clinic Arizona Research Symposium* (Poster presentation), Biodesign Institute, Arizona State University, Tempe, Arizona, February 4.
- Van Gemmert, A. W. A., & Kornatz, K. W.** (2005). Research in the motor control laboratory: Handwriting and Parkinson's disease, and Methods to evaluate and alleviate the effects of aging on movement control. Invited speaker at the *Million Years Club at the Church on Thirteenth and Mill*, Tempe, Arizona, March 8.
- Van Gemmert, A. W. A., & Poston, B.** (2008). Effects of Aging on Fine Motor Tasks. Invited speaker at the *"Good Ol' Men" at Westminster Village*, Scottsdale, Arizona, February 21.