

Curriculum Vita

Name: Beek, P. J.
First Name: Peter
Date of Birth: July 9, 1959
Place of Birth: Delft, the Netherlands
Civil Status: Married
Citizenship: The Netherlands
Address (Work): Department of Motor Behaviour, Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, van der Boechorststraat 9, 1081 BT Amsterdam, The Netherlands
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Education

1971-1977: Atheneum-B, Hugo Grotius Scholengemeenschap, Delft.
1977-1980: Interfaculty of Physical Education, Vrije Universiteit Amsterdam, The Netherlands, BSc, *cum laude*.
1980-1985: Interfaculty of Physical Education, Vrije Universiteit Amsterdam, The Netherlands, MSc, *cum laude*.
1985-1989: Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands, Ph.D., *cum laude*.

Academic positions

1988-1994: Assistant Professor (University Docent), Department of Psychology, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, the Netherlands.
1989-Present: Fellow of the Center for the Ecological Study of Perception and Action, Department of Psychology, University of Connecticut, Storrs, CT, U.S.A.
1994-1998: Associate Professor (University Head Docent), Department of Psychology, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, the Netherlands.
1998-Present: Full Professor of Coordination Dynamics, Department of Motor Behavior, Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.
2005-2010: Visiting Professor at the Centre for Sport and Exercise Sciences, John Moores University Liverpool, Liverpool, United Kingdom.
2007-2015: Dean of Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.
2014-2015: Interim Dean of Faculty of Psychology and Education, Vrije Universiteit Amsterdam, The Netherlands.
2015-2019: Dean of Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam, The Netherlands.

Teaching experience

Graduate and undergraduate courses in:

- Movement control and coordination;
- Perception and action;
- Acquisition of perceptual-motor skills;
- Nonlinear dynamics;
- Research methods; theory of measurement;
- Philosophy of human movement (science).

Research interests

- Motor control and coordinated movement;
- Perception-action coupling;
- Perceptual-motor skill acquisition and expertise.

Professional societies

- International Society for Ecological Psychology (Member);
- Psychonomic Society (The Netherlands Foundation for Scientific Research; Member);
- Vereniging voor Bewegingswetenschappen Nederland (Society for Human Movement Sciences the Netherlands, Board Member)
- Association for Psychological Science (Member of Integrative Science Initiative Steering Committee)

Courses in teaching

Course on Lecturing, Education Advisory Bureau, Vrije Universiteit Amsterdam, 1996.
Course on Testing and Grading, Education Advisory Bureau, Vrije Universiteit Amsterdam, 1997.

Management and leadership courses

Management of human resources. Looten-De Sonnaville Management Consultants, 1995.
CALL: Community for Authentic Leadership and Learning, Twijnstra & Gudde, 2008-2009 (interview group still active).

Editorial activities

Editor-in-chief of *Human Movement Science* (1999-2019).
Consulting editor of *Ecological Psychology*.
Member of the Advisory Board of *Sportwissenschaft*.

Reviewing activities

Ad hoc reviewer of manuscripts for the following peer-reviewed international journals: *Acta Psychologica*, *Advances in Neuroscience*, *Behavioral and Brain Sciences*, *Biological Cybernetics*, *Biomed Research International*, *British Journal of Psychology*, *Clinical Interventions in Aging*, *Cognitive Psychology*, *Developmental Psychology*, *Developmental Science*, *Disability and Rehabilitation*, *Ecological Psychology*, *Ergonomics*, *Experimental Brain Research*, *European Journal of Pain*, *Frontiers in Neuroscience*, *Gait & Posture*, *IEEE Transactions on Biomedical Engineering*, *International Journal of Sports Medicine*, *Journal of Electromyography and Kinesiology*, *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Human Perception and Performance*, *Journal of Medical Internet Research*, *Journal of Motor Learning and Development*, *Journal of Neurophysiology*, *Journal of Sport Sciences*, *Journal of the Royal Society Interface*, *Motor Control*, *Neuroscience Letters*, *Perception*, *Perception and Psychophysics*, *Perceptual and Motor Skills*, *Physica D*, *PLOS Computational Biology*, *PLOS One*, *Prosthetics & Orthotics International*, *Psychology of Sport & Exercise*, *Sport en Geneeskunde*, *Research Quarterly for Exercise and Sport Somatosensory & Motor Research*, *Scientific Reports (Nature Research)* and *Transactions on Neural Systems and Neuro-rehabilitation Engineering*.

Ad hoc grant reviewing activities for: *Christian Doppler Forschungsgesellschaft (Austria)*, *Der Wissenschaftsfonds (FWF, Austrian Science Fund)*, *The Fund for Scientific Research (FNRS, Brussels, Belgium)*, *The Health Research Board (Ireland)*, *The International Olympic Committee (Lausanne, Switzerland)*, *The Israel Science Foundation*, *The Vrije Universiteit Brussel (expert panel for the Research Evaluation "Physical education and physiotherapy")*, *The MacArthur Foundation (USA)*, *The National Science Foundation (USA)*, *The N.A.T.O. and the European Community (European Scientific Foundation, i.c. ESF's Standing Committee for the Social Sciences SCSS, "Marie Curie International Reintegration Grants" as part of the Human Resources and Mobility component of the European Sixth Framework Programme)*, *The Research Foundation — Flanders (Fonds voor Wetenschappelijk Onderzoek Vlaanderen)*, *Research Grants Council of Hong Kong*, *The Katholieke Universiteit Leuven*, *The U.S.-Israel Binational Science Foundation*, *The Royal Society of Edinburgh*, and *The Netherlands Organization for Scientific Research (Nederlandse Organisatie voor Wetenschappelijk Onderzoek, Stichting Maatschappij- en Gedragwetenschappen, Stichting Levenswetenschappen, Stichting Technische Wetenschappen, ZonMW)*.

In addition, I have provided several confidential assessments and letters of recommendation for individual scholars, either for promotion at their own university or for job applications elsewhere.

External funding [Total of funds procured > 12 M€]

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the coordination of rhythmic movements (1989-1993) — with dr. P. C. W. van Wieringen [k€ 110].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on polyrhythmic tapping (1992-1996) — with dr. P. C. W. van Wieringen [k€ 110].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on developmental transitions (1992-1996) — with prof. dr. B. Hopkins [k€ 110].

A grant from Vrije Universiteit Amsterdam (USF'95) for a two-year post-doctoral research project on the dynamics of brain activity during polyrhythmic tapping (1999-2000) [k€ 80].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year post-doctoral research project on the stability and flexibility of walking (1996-2000) — with dr. R. C. Wagenaar. The project was part of a larger research programme (1996-2000) [k€ 160].

Principal applicant of a grant from N.W.O. (The Netherlands Foundation for Scientific a four-year research programme on the stability and flexibility of movement (1996-2000), entailing three graduate research projects and one post-doctoral research project — with dr. W. Hulstijn [k€ 500].

A grant from Vrije Universiteit Amsterdam (USF'96) for a research program on discrete and rhythmic movements (1996-2000), involving three post-doctoral research projects (of four years each) [k€ 480].

A grant from the K.N.V.B. (The Royal Dutch Soccer Association) for a four-year research project on the perceptual abilities of young soccer players and soccer referees (1996-2000) — with dr. F. C. Bakker [k€ 110].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a 3D movement registration system (OptoTrak) and a 2D dataprojection system (Barco plus Silicon Graphics Onyx) (1997) — with dr. R. C. Wagenaar [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the development of dexterity in juggling (1999-2003) [k€ 120].

A grant from Vrije Universiteit Amsterdam ("Breedtestrategie") for a four-year graduate research project on the visual regulation of interceptive actions (1999-2003) [k€ 120].

Principal applicant of a grant from Vrije Universiteit Amsterdam ("Breedtestrategie") for a four-year research programme on the visual regulation of interceptive actions (1999-2003) [k€ 500].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the inertia tensor hypothesis in haptics (2002-2006) — with dr. I. Kingma [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on synchronization in the brain (2002-2006) — with dr. A. Daffertshofer [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on automatization and deautomatization (2002-2006) — with dr. R. R. D. Oudejans [k€ 160].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on the infusion of affect and social context in the perception-action interface (2002-2006) — with prof. dr. G. Semin [k€ 160].

A grant from NOC/NSF (The Netherlands Olympic Committee/Netherlands Sport Federation) for a (BOK) research project to determine the effects of force training on movement coordination in an elite athlete (2003) [k€ 6].

A grant from Research Institute MOVE, Vrije Universiteit Amsterdam (internal competition), for a four-year graduate post-doctoral research project on posturography in a clinical context (2004-2008) [k€ 180].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a four-year graduate research project on dynamic touch and optimal cue theory (2008-2012) — with dr. I. Kingma and prof. dr. J. Smeets [k€ 180].

A grant from Research Institute MOVE, Vrije Universiteit Amsterdam (internal competition), for a four-year graduate research project on the effects of bilateral training on the improvement of arm and hand function in stroke patients (2004-2008) [k€ 180] — with prof. dr. G. Kwakkel and dr. C. E. Peper [k€ 180].

A grant from N.W.O. (The Netherlands Foundation for Scientific Research) for a three-year post-doc research project on the classification of gait patterns (2009-2012) — with dr. A. Daffertshofer [k€ 220].

A grant from ZonMW/N.W.O. (The Netherlands Foundation for Scientific Research) for a research project aimed at developing and testing a novel instrument to support fall prevention in extramural care involving a post-doctoral researcher and two graduate students (2010-2014) — with dr. M. Pijnappels, prof.dr. J. H. van Dieën, dr. P. J. Elders and prof.dr. P. T. A. M. Lips [k€ 669].

A grant from the EU (European Union, Erasmus Mundus program MOVE-Age) for a three-year graduate research project on the relationship between executive function and gait adaptability in older adults (“Watch out! Gait adaptability in older adults with low and high executive function”) (2012-2015) — with dr. C. E. Peper and dr. M. Roerdink [k€ 170].

A grant from COMMIT/ (A Public Private Research Community) for a research project called “Sensor driven coaching for healthy living” (2013-2017) — with prof.dr. J. H. van Dieën and Infosys [k€ 240].

A grant from NWO/STW for a research program called “Optimalisatie van voortstuwing door en over het water” (2013-2018) — with prof.dr. H. J. H. Clercx, prof.dr. J. Westerweel and dr. A. J. van Soest [M€ 1,2].

A grant from NWO/TTW for a research program called “Citius Altius Sanius” (2017-2022) — with prof.dr. F. C. T. van der Helm and MSc D. Bregman [M€ 6,2].

Patents

Device for displaying target indications for foot movements to persons with a walking disorder (2009, Inventors: M. Roerdink, P. J. Beek; Assignee: ForceLink BV). US2009246746-A1; EP2106779-A1; JP2009240775-A; NL1035236-C2.

Co-supervisor of completed Ph.D. projects (3)

Van Santvoord, A. A. M. (1995). *Cascade juggling: Learning, variability, and information*. Published Doctoral Dissertation. Enschede: CopyPrint 2000. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, January 27, 1995.

Peper, C. E. (1995). *Tapping dynamics*. Published Doctoral Dissertation. Amsterdam: CopyPrint 2000 (*cum laude*). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, November 27, 1995.

Wimmers, R. H. (1996). *Grasping developmental change*. Published Doctoral Dissertation. Amsterdam: CopyPrint 2000. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 19, 1996.

Supervisor of completed Ph.D. projects (44)

Leemrijse, C. J. (2000). *Developmental coordination disorders: Evaluation and treatment*. Published Doctoral Dissertation. Enschede: Print Partners Ipskamp B.V. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, March 16, 2000.

Post, A. A., (2000). *Effects of task constraints on the relative phasing of rhythmic movements*. Published Doctoral Dissertation. Enschede: PrintPartners Ipskamp B.V. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 15, 2001.

Frank, T. D. (2000). *Stochastic properties of human motor control: Nonlinear Fokker-Planck equations*. Published Doctoral Dissertation. Enschede: PrintPartners Ipskamp. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 20, 2001 (*cum laude*).

Donker, S. F. (2002). *Flexibility of human walking: A study on interlimb coordination*. Published Doctoral Dissertation. Ph.D. Defense, Groningen University, The Netherlands, October 30, 2002.

Wu, W. (2004). *Pregnancy-related Pelvic girdle Pain (PPP): An emphasis on transverse pelvis-thorax coordination during walking*. Published Doctoral Dissertation. Amsterdam: Reprohouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, January 28, 2004.

Lamoth, C. (2004). *Walking with back pain*. Published Doctoral Dissertation. Amsterdam: ReproHouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 1, 2004.

Huys, R. (2004). *Disentangling perceptual-motor learning*. Published Doctoral Dissertation. Amsterdam: Reprohouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 22, 2004.

Dessing, J. (2005). *Neural dynamics underlying interceptive actions*. Published Doctoral Dissertation. Amsterdam: ReproHouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, March 4, 2005 (*cum laude*).

Pijpers, R. (2006). *The impact of anxiety on perceptual-motor behaviour*. Published Doctoral Dissertation. Enschede: Febodruk B.V. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 13, 2006.

Kistenmaker, D. (2006). *The control of fast goal-directed movements. A critical test of the equilibrium point hypothesis*. Published Doctoral Dissertation. Amsterdam: ReproHouse. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 18, 2006.

Van Mourik, A. (2006). *Structure from randomness: A window into coordination*. Published Doctoral Dissertation. Enschede: PrintPartners Ipskamp. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 2, 2006.

Ridderikhoff, A. (2006). *Rhythmic bimanual coordination: Interlimb interactions and effector dynamics*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 15, 2006.

Selen, L. P. J. (2006). *Impedance modulation: A means to cope with neuromuscular noise*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 16, 2007.

Van de Langenberg, R. (2007). *How do you feel? An inquiry into dynamic touch and proprioception*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 4, 2007.

De Poel, H. (2007). *Asymmetric interlimb coupling strength in rhythmic bimanual coordination*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, June 4, 2007.

Boonstra, T. (2007). *Neural dynamics of human motor control*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 20, 2007.

Ferraz de Oliveira, R. (2007). *Visual perception for basketball shooting*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, October 29, 2007.

Roerdink, M. (2009). *Anchoring: Moving from theory to therapy*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 17, 2009.

Scholz, M. (2009). *Jump and run. Energetics and mechanics of explosive and cyclic movements*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 11, 2009.

Brujin, S. M. (2010). *Is stability an unstable concept? Quantifying dynamic stability of human locomotion*. Published Doctoral Dissertation. Amsterdam: Ipskamp (ISBN 9789 0865 9455 9). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 27, 2010.

Van Ulzen, N. R. (2010). *Exploring affective perception and social action*. Published Doctoral Dissertation. (ISBN 9789076269887). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 27, 2010.

- Vardy, A. (2010). *Moving in time: Neurons, clocks, and rhythmic movements*. Published Doctoral Dissertation. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 8, 2010.
- Houweling, S. (2010). *Neural entrainment in coordination dynamics*. Published Doctoral Dissertation. Ridderkerk: Ridderprint Offsetdrukkerij (ISBN 9789 0865 9510 5). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 13, 2010.
- Van Wijk, B. (2012). *Neural synchronization within and between regions of the motor system*. Published Doctoral Dissertation. Enschede: Ipskamp Drukkers (ISBN 978-94-6191-480-4). Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, November 26, 2012.
- De Boer, B. J. (2013). *Stabilizing bimanual coordination: Changes in interlimb interactions*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, January 21, 2013.
- Debats, N. (2013). *Exploratory movements in haptic perception*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 25, 2013.
- Van Delden, A. E. Q. (2014). *Unilateral versus bilateral upper limb training after stroke*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 14, 2014.
- Bank, L. (2014). Motor dysfunction in Complex Regional Pain Syndrome. The role of sensory processing and sensory-motor integration. Leiden University, The Netherlands, April 8, 2014.
- Hak, L. (2014). *Step by step. Stepping strategies to prevent falling while walking*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 8, 2014.
- Marmelat, V. (2014). *Synchronization with fractal rhythms. Complexity matching of statistical structure*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 30, 2014 (double degree).
- Marmelat, V. (2014). *Appariement des structures temporelles de deux systèmes complexes couplés: perspectives de réhabilitation d'un système déficient*. Ph.D. Defense, SMH Sciences du Mouvement Humain, UM1, Montpellier, France, October 24, 2014 (double degree).
- Rispens, S. (2015). *A walk on the wild side. Fall-risk assessment from daily-life gait*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 27, 2015.
- Ijmker, T. (2015). *Balance control in human walking: An energetic perspective*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 22, 2015.
- Hutter, R. I. (2016). *Training and assessment for sport psychology practice*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, May 20, 2016.
- Mazaheri, M. (2016). *Older adults: Mind your step!* Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, October 28, 2016.
- Stevens, T. (2017). *External load during football training: The power of acceleration and deceleration*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, February 23, 2017.
- Van Lummel, R. C. (2017). *Assessing Sit-to-Stand for clinical use*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, March 30, 2017.
- Van Ooijen-Kerste, M. (2017). *Steps to follow. Toward the clinical assessment and training of walking adaptability*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 26, 2017.
- De Melker Worms, J. (2017). *Human balance control: Effects of fear and attention in standing and walking*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, July 3, 2017.
- Van den Heuvel, M. (2017). *Augmented visual feedback in Parkinson's disease – assessing and improving postural control*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 22, 2017.
- Van Houwelingen, J. (2018). *In the swim. Optimising propulsion in human swimming*. Ph.D. Defense, Technische Universiteit Eindhoven, The Netherlands, October 30, 2018.
- Van der Graaff, E. (2019). *Perfecting your pitch. In search of the perfect baseball pitch and its training*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, April 10, 2019.
- Timmermans, C. (2019). *Walking-adaptability assessment and training: Steps towards clinical implementation*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, September 17, 2019.
- Lintmeijer, L. L. (2019). *Power in rowing. In search of effective feedback variables*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 18, 2019.
- Bouman, D. (2020). *Taking approach-avoidance research a step further*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December 10, 2020.
- Van Oeveren, B. (2020). *Running deciphered. Interpretation of running technique from wearable data*. Ph.D. Defense, Vrije Universiteit Amsterdam, The Netherlands, December xx, 2020.

Supervisor of current Ph.D. projects (9)

Bert Coolen (2023), Radoslaw Ryszard Dukalski (2022), Sander Ganzevles (2020), Minke van der Kamp (2023), Anouk Nijs (2022), Antoine de Schipper (2022), Sander Schreven (2020), Manon Smit (2023), Jora Wolfram (2023).

External examiner of Ph.D. theses (41)

Van Soest, A. J., *Jumping from structure to control. A simulation study of explosive movements*. Vrije Universiteit Amsterdam, The Netherlands, October 22, 1992.

Van Doorn, R., *Relevance of vision for adult handwriting*. Vrije Universiteit Amsterdam, The Netherlands, March 16, 1992.

Koken, P. W., *Human eye and hand movements in tracking tasks*. University of Utrecht, The Netherlands, December 7, 1993.

Zaal, F. T. J. M., *On prehension. Toward a dynamical account of reaching and grasping movements*. Vrije Universiteit Amsterdam, The Netherlands, November 1, 1995.

Stins, J., *Information-action compatibility*. Vrije Universiteit Amsterdam, The Netherlands, April 1, 1998.

Schillings, J. J., *The control of joint movement in graphic performance: A kinematic approach*, Katholieke Universiteit Nijmegen, Nijmegen, The Netherlands, November 2, 1998.

Kingma, I., *Challenging gravity: The mechanics of lifting*. Vrije Universiteit Amsterdam, The Netherlands, December 7, 1998.

Boessenkool, J. J., *Moving two hands: Common versus independent control*. University of Utrecht, The Netherlands, June 21, 1999.

Mates, J., *On the synchronization of simple motor responses to a metronome*. Katholieke Universiteit Nijmegen, Nijmegen, The Netherlands, September 20, 1999.

- Bongers, R. M., *An action perspective on tool use and its development*. Katholieke Universiteit Nijmegen, Nijmegen, The Netherlands, April 24, 2001.
- Van Thiel, E., *(Dis)ordered motor control characterizing arm movements in cerebral palsy*. Katholieke Universiteit Nijmegen, The Netherlands, October 3, 2001.
- Nevin, C., *Initiation and control of gait from first principles: A mathematically animated model of the foot*. University of Cape Town, South-Africa, December, 2001.
- Jacobs, D. M., *On perceiving, acting, and learning. Toward an ecological approach anchored in convergence*. Vrije Universiteit Amsterdam, The Netherlands, January 17, 2002 (*cum laude*).
- Brouwer, A.-M., *The use of visual information in intercepting moving objects*. Erasmus Universiteit Rotterdam, The Netherlands, April 24, 2002.
- De Groot, S., *Hand rim wheelchair propulsion: Biophysical aspects of learning*. Vrije Universiteit Amsterdam, The Netherlands, November 28, 2003.
- Wisse, M., *Essentials of dynamic walking. Analysis and design of two-legged robots*. Technical University Delft, The Netherlands, September 22, 2004 (*cum laude*).
- Withagen, R., *On the functional specificity of calibration* Vrije Universiteit Amsterdam, The Netherlands, February 23, 2005.
- Millieux, L., *La dynamique du recrutement et de la suppression des degrés de liberté dans les coordinations motrices. [Dynamics of recruitment/suppression of degrees of freedom in motor coordination]*. L' Université de la Méditerranée, Marseille, France, December 6, 2005.
- Villard, S., *Processus de synchronisation entre locomotion et respiration [The process of synchronisation between locomotion and respiration]*. L' Université de Montpellier I, Montpellier, France, December 7, 2005.
- Atchy-Dalama, P., *Approche dynamique de l'apprentissage: Pratique variable et rôle des informations sensorielles [Dynamical approach to learning: Variability of practice and the role of sensory information]*. Université Toulouse III – Paul Sabatier U.F.R. Staps, Toulouse, France, December 8, 2005.
- Heij, P., *Grondslagen van 'verantwoord' bewegingsonderwijs. Filosofische en pedagogische doordenking van relationeel gefundeerd bewegings-onderwijs*. Budel: Uitgeverij Damon BV. Vrije Universiteit Amsterdam, The Netherlands, June 21, 2006.
- Visser, J. E., *Basal ganglia and postural control*. Radboud Universiteit Nijmegen, The Netherlands, June 17, 2008.
- Lim, I., *Rehabilitation in Parkinson's disease: Strategies for cueing*. Vrije Universiteit Amsterdam, The Netherlands, May 19, 2009.
- Abrahamse, E. L., *Serial action and perception*. University of Twente, The Netherlands, January 28, 2010 (*cum laude*).
- Horlings, C. G. C., *A weak balance: Balance and falls in patients with neuromuscular disorders*. Radboud University Nijmegen, The Netherlands, April 1, 2010.
- Brink, M. S., *Balancing stress and recovery in sports*. Rijksuniversiteit Groningen, The Netherlands, December 6, 2010.
- Van der Werf, J., *Cortical oscillatory activity in human visuomotor integration*. Radboud Universiteit Nijmegen, The Netherlands, March 30, 2011.
- Mugge, W., *Reflex mechanisms in CRPS-related dystonia*. Technische Universiteit Delft, The Netherlands, June 22, 2011.
- Rey, F. P., *Le jonglage et les sciences. D'une étude pluridisciplinaire à une vision transdisciplinaire*. L'Université René Descartes – Paris V, November 23, 2011.
- Snijders, A. H., *Tackling freezing of gait in Parkinson's disease*. Radboud University Nijmegen, The Netherlands, June 4, 2012.
- Benjaminse, A., *Motor learning in ACL injury prevention*. Rijksuniversiteit Groningen, The Netherlands, November 9, 2015.
- Noël, B., *What the penalty taker should and should not know: How having too much information about the goalkeeper can hinder penalty kick performance*. Vrije Universiteit Amsterdam, March 2, 2016.
- Onneweer, B., *Is the force with you? On the accuracy of human force perception*. Technische Universiteit Delft, March 23, 2016.
- Van Dijk, L., *The reality of practice: an action systems approach to serious gaming*. Rijksuniversiteit Groningen, The Netherlands, November 23, 2016.
- Reijnierse, E. M., *Muscle matters! Recognizing the relevance of the ageing muscle*. Vrije Universiteit Amsterdam, April 3, 2017.
- Zult, T., *Inter-limb mechanisms and clinical relevance of cross-education in humans*. Rijksuniversiteit Groningen, The Netherlands, June 12, 2017.
- Mentzel, T. Q., *Capturing the cacophony of movement – Assessment, epidemiology and treatment of movement disorders in patients with psychotic disorders*. Universiteit Maastricht, The Netherlands, June 8, 2018.
- Cuijpers, L., *Coordination dynamics in crew rowing*. Rijksuniversiteit Groningen, The Netherlands, September 9, 2019.
- Postma, D. B. W., *Affordance-based control in running to catch fly balls*. Rijksuniversiteit Groningen, The Netherlands, October 14, 2019.
- Maldini, I., *Can design confront consumerism?* Vrije Universiteit Amsterdam, The Netherlands, November 26, 2019.
- Jongbloed-Pereboom, M., *Learning by doing: Lessons learned on explicit and implicit motor learning in children*. Radboud Universiteit Nijmegen, The Netherlands, July 6, 2020.

Articles in refereed journals [n = 308; IF = ISI impact factor 2019, unless indicated otherwise; H-index = 56, Web of Science]

1. Tamboer, J. W. I., Meijer, O. G., & Beek, P. J. (1980). Book review of "Meaning in movement, sport and physical education" (Arnold, P. J., Heinemann, 1979, pp. 200). *Journal of Human Movement Studies*, 6, 188-200. [IF (2007) = 0.056]
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- Beek, P. J. (2007). On the primacy of the dynamics of perception and action. In Y. Theodorakis, M. Goudas, & A. Papaioannou (Eds.), *12th European Congress of Sport Psychology: Book of Abstracts* (pp. 180-181). FEPSAC. University of Thessaly.
- Koedijker, J. M., Oudejans, R. R. D., & Beek, P. J. (2007). Rule formation and table tennis performance following explicit and analogy learning over 10,000 repetitions. In Y. Theodorakis, M. Goudas, & A. Papaioannou (Eds.), *12th European Congress of Sport Psychology: Book of Abstracts* (p. e157). FEPSAC. University of Thessaly.
- de Boer, B. J., Peper, C. E., & Beek, P. J. (2012). Changes in functional interlimb interactions when learning a new bimanual coordination pattern with an internal or external focus of attention. In A. Diaz, L. Lobo, D. Travieso, D. M. Jacobs, & P. Calvo (Eds.), *Program and proceedings of the 12th European Workshop on Ecological Psychology* (p. 24). Madrid, Spain (June 27-30).
- de Boer, B. J., Peper, C. E., & Beek, P. J. (2012). Development of spatial and temporal bimanual coordination during childhood. In M. Latash & J. Laczko (Eds.), *Motor Control Summer School* (p. 14-15). Tihany, Hungary (June 14-18).
- de Boer, B. J., Peper, C. E., & Beek, P. J. (2012). Development of spatial and temporal bimanual coordination during childhood. In *NCM 22nd Annual Meeting, Book of Abstracts* (p. 72). Venice, Italy (April 23-29).

Paper and poster presentations at professional meetings

- Beek, P. J., & Beek, W. J., A catalogue of nonlinear friction and elastic functions. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, U.S.A., 1987.
- Beek, P. J., & Beek, W. J., Model choice and parametric sensitivity in quantifying rhythmical movement. Paper presented at the Fourth International Conference on Event Perception and Action, Trieste, Italy, 1987.
- Beek, P. J., Tessellation of time in juggling and walking. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, CT, U.S.A., 1988.
- Beek, P. J., Controle van arm- en handbewegingen tijdens jongleren. (Control of arm and hand movements during juggling.) Paper presented at Psychologencongres (Nederlands Instituut van Psychologen). Katholieke Universiteit Tilburg, The Netherlands, 1988.
- Beek, P. J., Timing and phase-locking in cascade juggling. Paper presented at the 12th Meeting of the International Society for Ecological Psychology, Antioch College, Yellow Springs, OH, U.S.A., 1988.
- Beek, P. J., Discretizing the continuous in juggling. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, CT, U.S.A., 1989.
- Beek, P. J., & Beek, W. J., Discrete calculus and the phase plane: A catalogue of elementary functions. Paper presented at the Fifth International Conference on Event Perception and Action, Oxford, Miami, OH, U.S.A., 1989.
- Beek, P. J., Space-time tessellations in juggling. Invited paper presentation at the Workshop on Methodologies for Perceiving and Acting within An Intentional Context. Z.I.F., Bielefeld, F.R.G., 1989.
- Hopkins, B., & Beek, P. J., Effects of intrauterine growth retardation on social development. Paper presented at the Tenth Biannual Meeting of the International Society for the Study of Behavioural Development. Jyväskylä, Finland, 1989.
- Schmidt, R. C., Beek, P. J., Treffner, P., & Turvey, M. T., Dynamical patterning in coordinated rhythmic movements. Poster presented at the 15th Meeting of the International Society for Ecological Psychology, Dartmouth College, Hannover, NH, U.S.A., 1989.

- Beek, P. J., & Peper, C. E., The Farey tree and temporal invariance in rhythmic hand movements. Paper presented at the workshop on Ecological and Information Processing Approaches to Action Control. Faculty of Human Movement Sciences, Amsterdam, The Netherlands, 1990.
- Beek, P. J., Wimmers, R. H., & van Wieringen, P. C. W., Phase transitions in coordinated rhythmic movements: A confirmation of the informational threshold nonlinearity hypothesis. Paper presented at the 16th Meeting of the International Society for Ecological Psychology, Beckman Institute, University of Illinois, Champaign-Urbana, ILL, U.S.A., 1990.
- Beek, P. J., Inadequacies of the proportional duration model: Perspectives from a dynamical analysis of timing in juggling. Invited paper presentation at the International Conference on Sequencing and Timing of Human Movement, N.I.A.S., Wassenaar, The Netherlands, 1990.
- Beek, P. J., Knowing how to juggle: Dynamical basis of a complex learned skill. Invited paper presentation at the International Joint Conference on Neural Networks, San Diego, CA, 1990.
- Turvey, M. T., & Beek, P. J. Invariants of perception and action. Invited paper presentation at The Sixth Yale Workshop on Adaptive and Learning Systems, Center for Systems Science, Durham Laboratory, Yale University, New Haven, CT, 1990.
- Beek, P. J. Towards a dynamical theory of motor skill acquisition. Paper presented at the Perceiving-Action Workshop in Ecological Psychology, University of Connecticut, Storrs, CT, U.S.A., 1990.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Bifurcations in bimanual tapping: In search of Farey principles. Paper presented at N.A.T.O. Advanced Study Institute on Tutorial in Motor Neuroscience, Ajaccio, France, 1991.
- Beek, P. J., Schmidt, R. C., Morris, A. W., M.-Y. Sim, & Turvey, M. T., Determining friction and damping terms in rhythmic movements. Poster presented at the 19th Meeting of the International Society for Ecological Psychology, Trinity College, Hartford, CT, U.S.A., 1991.
- Beek, P. J., Schmidt, R. C., Morris, A. W., M.-Y. Sim, & Turvey, M. T., Determining friction and damping terms in rhythmic movements. Poster presented at the Workshop on Symbols and Dynamic Representations, Indiana University, Bloomington, IN, U.S.A., 1991.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Bifurcations in polyrhythmic tapping. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Riel, M.-J. van, Beek, P. J., & van Wieringen, P. C. W., Phase transitions in rhythmic arm movements under different stimulus-response configurations. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Rikkert, W. E. I., Beek, P. J., & Beek, W. J., In search of a physical underpinning of the coupling constants in coordinated rhythmic movements. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Rikkert, W. E. I., Beek, P. J., & van Wieringen, P. C. W., Limit cycle properties of coordinated rhythmic movements are limb-specific. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Santvoord, A. A. M. van, Beek, P. J., & Bootsma, R. J., Looking for place-of-contact information in a parabolic flight trajectory. Poster presented at the VIth International Conference on Event Perception and Action, Vrije Universiteit Amsterdam, The Netherlands, 1991.
- Beek, P. J., Waarnemen en bewegen: Een ondeelbare werkelijkheid (Perception and movement: An indivisible reality). Invited paper presentation at the 15th Winter Meeting of the "Belgische Vereniging voor Gerontologie en Geriatrie" (Belgian Society voor Gerontology and Geriatrics), Oostende, België, 1992.
- Beek, P. J., Invited participant of the Human Frontier Science Program Conference on The control and modulation of interlimb coordination: A multidisciplinary perspective. Katholieke Universiteit Leuven (Catholic University Leuven), Leuven, België, 1992.
- Beek, P. J., Rikkert, W. E. I., & Sternad, D., Specificity in interlimb coordination. Second European Conference on Ecological Psychology, University of Strathclyde, Glasgow, Scotland, 1992.
- Rikkert, W. E. I., Beek, P. J., & Beek, W. J., On the gating of energy in rhythmic arm movements performed under different dynamic conditions. Second European Conference on Ecological Psychology, University of Strathclyde, Glasgow, Scotland, 1992.
- Beek, P. J., & van Santvoord, A. A. M., Over de wederkerige relatie tussen waarnemen en bewegen in cascade-jongleren (On the reciprocal relationship between perception and movement in cascade juggling). Invited paper presentation at the 3d Meeting of the "Nederlandse Contactgroep voor Ecologische Psychologie" (Dutch Contact Group for Ecological Psychology), Amsterdam, Nederland, 1992.
- Beek, P. J., Phasing and the pick-up of information in cascade juggling. Invited paper presentation at the Eighteenth Annual Interdisciplinary Conference, Teton Village, Jackson Hole, WY, U.S.A., 1993.
- Beek, P. J., & Santvoord, A. A. M. van, Visual information for phasing in cascade juggling. Invited paper presentation at the 8th World Congress of Sport Psychology, Lisbon, Portugal, 1993.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Training effects on coupling strength in bimanual rhythmic performance. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Het tikken van polyritmen: Een dynamische benadering. [Polyrhythmic tapping: A dynamical approach]. Paper presented at the Fourth Conference on Psychonomics, Noordwijkerhout, The Netherlands, 1993.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Bimanual rhythmic performance: Mastering the interaction between the hands. Presented at the Symposium "Het leren van motorische vaardigheden" (Learning motor skills), 1993, Amsterdam, The Netherlands, 1993.
- Santvoord, A. A. M. van, & Beek, P. J., Optical information for cascade juggling. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Verbeke, W., Beek, P. J., & Singh, J., Proposing a dynamical systems perspective about sales-client interactions. Paper presented at the 22nd Conference of the European Marketing Academy, ESADE, Barcelona, Spain, 1993.
- Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B., 'Stable states' and 'transitions' in the development of prehension. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Sternad, D., Beek, P. J., & Turvey, M. T., Mechanical perturbations of rhythmic forearm movements. Poster presented at the VIIth International Conference on Event Perception and Action, University of British Columbia, Vancouver, Canada, 1993.
- Beek, P. J., & van Wieringen, P. C. W., Ritmiek en dynamiek (Rhythm and dynamics). Paper presentation at a meeting of Psychon (the psychology section of the Dutch Science Foundation) on Movement Control, Maastricht, The Netherlands, 1994.
- Beek, P. J., Invited participant of the XIIIth New Technology and Work workshop on "Approaches to modeling the evolution and breakdown of adaptive systems". Werner-Reimers-Stiftung, Bad Homburg, FR Germany, 1994.

- Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J., & Hopkins, B., Sudden jumps in the development of grasping? Poster presented at the ISSBD Amsterdam, The Netherlands, 1994.
- Michaels, C. F., & Beek, P. J., The state of ecological psychology. Paper (key note lecture) presented at the Third European Workshop on Ecological Psychology, Borken-Hoxfeld, Ruhr-University Bochum, FR Germany, 1994.
- Beek, P. J., A dynamical systems approach to movement coordination. Paper (key note lecture) presented at the Second World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Dynamics of multifrequency behaviour. Paper presented at the Second World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., The control of polyrhythmic tapping. Poster presented at the 23d International Congress of Applied Psychology, Madrid, Spain, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Tapping dynamics. Paper presented at the Fifth Workshop on Rhythm Production and Perception, Sheffield, UK, 1994.
- Jagacinski, R. J., & Beek, P. J. Towards an integrated theory of polyrhythmic tapping. Paper presented at the Fifth Workshop on Rhythm Production and Perception, Sheffield, UK, 1994.
- Beek, P. J., Dynamical models for the development of movement coordination and their implications for neural networks. Invited paper presentation at the Workshop on Models for Neural Development. Contributions of Neural Networks to Motor Control, Groningen, The Netherlands, 1994.
- Peper, C. E., Beek, P. J., & van Wieringen, P. C. W., Asymmetrical coupling in multifrequency tapping: Fast hand dominates slow hand. Paper presented at the Eighth International Conference on Perception and Action, Marseille, France, 1995.
- Beek, P. J., Peper, C. E., Post, A. A., & Reijnen, J. S., Orbital stability of rhythmic forearm movements. Poster presented at the Eighth International Conference on Perception and Action, Marseille, France, 1995.
- Wimmers, R. H., Savelsbergh, G. J. P., Beek, P. J. & Hopkins, B., Preliminary evidence for a developmental transition from reaching to grasping proper. Poster presented at the Eighth International Conference on Perception and Action, Marseille, France, 1995.
- Beek, P. J., & Peper, C. E., Acquiring coordination: A synergetic approach. Paper presented at the First Annual Congress of the European College of Sport Science, Nice, France, 1996.
- Barr, R. G., & Beek, P. J., Can a dynamic systems approach better account for the phenomenology of behavioral states? Paper presented at the XIVth Biennial ISSBD Conference, Québec City, Canada, 1996.
- Brinker, B. P. L. M. den, Bruggeman, H., & Beek, P. J., The effect of window width and window height on reading connected text with a CCTV magnifier. Paper presented at the International Conference on Low Vision, Madrid, O.N.C. E., 1996.
- Soest, A. J., & Beek, P. J., Perceptual-motor coupling in the execution of fast-interceptive actions. Paper presented at the 1996 London Conference of the British Psychological Society, London, 1996.
- Beek, P. J., Peper, C. E., & Daffertshofer, A., Pattern dynamics of multifrequency tapping. Invited paper presentation at the symposium "Complex phenomena in cognitive processes", Zentrum für Nichtlineare Dynamik, Institut für Theoretische Physik und Astrophysik, Universität Potsdam, Potsdam, Germany, 1996.
- Beek, P. J., Wat de theorie over dynamische systemen kan bijdragen aan de studie van oogbewegingen (What the dynamical system approach can contribute to the study of eye movements). Invited paper presentation at the 6th Meeting of the "Nederlandse Contactgroep voor Ecologische Psychologie" (Dutch Contact Group for Ecological Psychology), Rotterdam, Nederland, 1996.
- Barr, R. G., Beek, P. J., & Calinoiu, N., Challenges to nonlinear modelling of infant emotion regulation in real and developmental time. Invited paper presented at the symposium "Non-linear analyses of developmental processes", The Royal Netherlands Academy of Arts and Sciences, Het Trippenhuis, Amsterdam, The Netherlands, 1997.
- Beek, P. J., Peper, C. E., Soest, A. J. van, Daffertshofer, A., & Meijer, O. G. Studying perception and movement from mutually constraining perspectives. Invited paper presentation at the 2nd IFKB Symposium "Models in human movement sciences", Faculty of Human Movement Sciences, Amsterdam, 1997.
- Beek, P. J. Van sturing naar coördinatie (From control to coördination). Invited paper presentation at the 2nd Symposium of the "Nederlandse Vereniging voor Bewegingswetenschappen" (Dutch Society for Human Movement Sciences), "Bewegen is problemen oplossen", Amsterdam, Nederland, 1997.
- Post, A. A., & Beek, P. J. Measuring entropy in cascade juggling. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Peper, C. E., & Beek, P. J. The role of amplitude in frequency-induced transitions. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. Perception-action coupling in juggling. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Sternad, D., Beek, P. J., & Turvey, M. T. Mechanical perturbations of rhythmic forearm movements. Poster presented at the Ninth International Conference on Perception and Action, Toronto, Canada, 1997.
- Beek, P. J., Amazeen, P. G., Post, A. A. Quantifying the evolution of oscillating components during the acquisition of rhythmic perceptual-motor skills. Paper presented at the VIIème Congrès International de l'Association des Chercheurs en Activités Physiques et Sportives. Marseille, France, 1997 (3-5 Novembre).
- Beek, P. J. Tacit learning, coordination, and feedback: A reaction to Richard Masters. Invited reaction to a target presentation at the Scientific Sport Psychology Workshop, Amsterdam, The Netherlands, 1997.
- Jansen, C., Peper, C. E., & Beek, P. J. Het leren produceren van multifrequentiepatronen (Learning to tap multifrequency patterns). Poster presented at the 6e Wintercongres Nederlandse Vereniging voor Psychonomie (p. 58). Egmond aan Zee, The Netherlands, 1997.
- Beek, P. J., & Tamboer, J. W. I. "Ships passing in the night": Onnutte kennis of niet benutte kennis? Invited paper presentation at the Symposium "Bewegen tussen wetenschap en praktijk" ("Movement between science and practice"), organized by Windesheim (CALO), Zwolle, The Netherlands, 1998.
- Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. Timing the selection of visual information for catching. NASPSA, 1998.
- Amazeen, P. G., Amazeen, E. L., & Beek, P. J. Locomotor-respiratory coupling in wheelchair propulsion. NASPSA, 1998.
- Amazeen, E. L., Amazeen, P. G., Post, A. A., & Beek, P. J. Timing the selection of visual information in rhythmic throwing. Paper presented at the Fifth European Workshop on Ecological Psychology. Abbaye des Prémontrés, Pont-à-Mousson, France, 1998.
- Amazeen, P. G., Amazeen, E. L., & Beek, P. J. The effect of experience on locomotor-respiratory coupling during wheelchair propulsion. Paper presented at the Fifth European Workshop on Ecological Psychology. Abbaye des Prémontrés, Pont-à-Mousson, France, 1998.

- Peper, C. E., & Beek, P. J. Examining the role of movement amplitude in rhythmic coordination. Paper presented at the Fifth European Workshop on Ecological Psychology. Abbaye des Prémontrés, Pont-à-Mousson, France, 1998.
- Beek, P. J. Complex dynamics. Invited tutorial presented at the Seventh Workshop on Rhythm Production and Perception, NIAS, Wassenaar, The Netherlands, 1998.
- Peper, C. E., Beek, P. J., & Daffertshofer, A. Internal clocks versus nonlinear oscillators? Towards an integrated model. Paper presented at the Seventh Workshop on Rhythm Production and Perception, NIAS, Wassenaar, The Netherlands, 1998.
- Jansen, C., Peper, C. E., & Beek, P. J. Learning dynamics in tapping multifrequency patterns. Paper presented at the Seventh Workshop on Rhythm Production and Perception, NIAS, Wassenaar, The Netherlands, 1998.
- Berg, C. van den, & Beek, P. J. Aandoening of aanpassing? Invited lecture on the "NOW Publieksdag Hersenonderzoek", October 22, Utrecht, The Netherlands, 1999.
- Beek, P. J. Coördinatie en sturing (Coordination and control). Congres "Knie-operatie en –revalidatie; hoe individueel is een protocol? Nederlands Paramedisch Instituut, November 23, 1998, Arnhem (Papendal), The Netherlands.
- Berg, C. van den, Beek, P. J., van Wieringen, P. C. W., & Wagenaar, R. C. Coordination disorders of patients with Parkinson's disease. Paper presented at the Xth International Conference on Perception and Action, August 9-13, Edinburgh, Scotland, 1999.
- Beek, P. J. Reciprocal relations between perceiving and moving in complex actions. Invited Paper presentation at The First Icron Meeting on Sensorimotor Integration, Nijmegen, March 5, 1999.
- Peper, C. E., Beek, P. J., Carson, R. G., & Daffertshofer, D. Modeling rhythmic interlimb coordination. Paper presented at the Department of Cognitive and Linguistic Sciences, Brown University, Providence RI, USA, May 6, 1999; Center for the Ecological Study of Perceiving and Acting, University of Connecticut, Storrs CT, USA, May 7, 1999, and Department of Physical Therapy, Sargents College of Health and Rehabilitation Sciences, Boston University, Boston, USA, May 11, 1999.
- Daffertshofer, A., Beek, P. J., & Peper, C. E. (1999). Dynamical systems with timekeeper properties. Paper presented at the "Tenth International Conference on Perception and Action", Edinburgh, UK, August 8-14.
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. Paper presented at the workshop "Modeling Action and Perception: Debates in Dynamics", University Park, PA, USA, August 16-19.
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. Presented at the "International Conference Progress in Motor Control II: Structure-function relations in voluntary movement", University Park, PA, USA, August 19-22.
- Daffertshofer, A., & Beek, P. J. Data reduction: What is the relevant information and how to preserve it? Paper presented at Zevende Workshop Computers in de Psychologie, Utrecht, The Netherlands, September 16, 1999.
- Daffertshofer, A., Peper, C. E., Frank, T. D., & Beek, P. J. (1999). Spatio-temporal patterns of encephalographic signals during polyrhythmic tapping. Presented at the "Annual Meeting of the Society for Neuroscience", Miami Beach FL, USA, October 23-28.
- Beek, P. J. Looking in time. Key-note lecture presented at the First International Conference of the Sports Vision Association, UMIST, Manchester, UK, September 25, 1999.
- Beek, P. J., Daffertshofer, A., & Peper, C. E. Complex dynamics: Toward an understanding of bimanual coordination. Invited lecture at the Workshop Synchronization and Coordination in Human Movement Timing, University of Potsdam, Potsdam, Germany, October 1, 1999.
- Peper, C. E., Beek, P. J. & Carson, R. G. Testing dynamical models of rhythmic interlimb coordination. Invited lecture at the Workshop Synchronization and Coordination in Human Movement Timing, University of Potsdam, Potsdam, Germany, October 1, 1999.
- Beek, P. J. Coordination and vision in juggling. Invited keynote lecture at the 5th Biennial Motor Control and Human Skill Research Workshop, Surfers' Paradise, Gold Coast, Australia, January 29, 2000.
- Beek, P. J., Oudejans, R. R. D., & Verheijen, R. Fluiten en vlaggen (Whistling and flagging). Invited lecture at the Congress entitled "Voetbal en (be)letsels". Stichting Sport en Orthopaedie, Arnhem (Papendal), The Netherlands, June 21, 2000.
- Frank, T. D., Daffertshofer, A., Peper, C. E., & Beek, P. J. Bifurcations in brain activity modelled by coupled rotator systems subjected to noise. Poster Presentation at "Dynamics Days 2000", University of Surrey, Guildford, UK, June 25-30, 2000.
- Beek, P. J., & Peper, C. E. Dynamics and cognition in bimanual rhythmic coordination. Invited paper presentation at the International Workshop on Computational Handwriting Models. Nijmegen Institute for Cognition and Information, University of Nijmegen, The Netherlands, June 28-30, 2000.
- Beek, P. J. Invited observer at the XIX conference of The International Association for the Study of Attention and Performance, "Attention and Performance XIX: Common mechanisms in perception and action". Kloster Irsee, Germany, July 16-22, 2000.
- Beek, P. J. Cognition and dynamics: Integrated modelling of pattern formation in brain and behaviour. Invited keynote lecture at "BASES 2000", British Association of Sport and Exercise Sciences, Liverpool, UK, August 30, 2000.
- Huys, R., & Beek, P. J. The coupling between gaze excursions and ball movements in 3-ball cascade juggling: The effects of expertise, pattern and tempo. Invited lecture at "BASES 2000", British Association of Sport and Exercise Sciences, Liverpool, UK, September 1, 2000.
- Beek, P. J. Views on expert performance in sport from the joint perspectives of ecological psychology and dynamical systems theory. Invited lecture at the 10th World Congress of Sport Psychology, Skiathos, Greece, May 31, 2001.
- Dessing, J. C., Bullock, D., Peper, C. E., & Beek, P. J., Prospective control of manual interceptive actions: Comparative simulations of extant and new model constructs. Poster presented at the XI International Conference on Perception and Action, Storrs, CT, USA, June 25-29, 2001.
- Beek, P. J., Gecoördineerd bewegen. Tweede deel van de diesrede van de Vrije Universiteit, getiteld Stilstaan bij bewegen. (Coordinated movement. Second part of the anniversary lecture of the Vrije Universiteit, entitled Contemplating about movement.) Vrije Universiteit Amsterdam, October 19, 2001.
- Post, A., Peper, C. E., & Beek, P. J., Coordination aspects of playground swinging. Paper presented at the IXème Congrès International des Chercheurs en Activités Physiques et Sportives ACAPS (Association for researchers in physical activities and sports), Valence, France, November 2, 2001.
- Dessing, J. C., Bullock, D., Peper, C. E., & Beek, P. J., Prospectieve sturing van interceptieve taken: Simulaties van bestaande en nieuwe modellen (Prospective control of interceptive actions: Simulations of extant and new models). Paper presented at the Presented at the Eighth Winterconference of the Dutch Society for Psychonomics, Egmond aan Zee, December 14-15, 2001.

- Beek, P. J., Daffertshofer, A., Peper, C. E., & van Soest, A. J., Integrated modeling of neural and musculoskeletal dynamics. Paper presented at the Human Movement Sciences Symposium on Perception and Action, Faculty of Human Movement Sciences, Amsterdam, The Netherlands, January 18, 2002.
- Beek, P. J., *Bewegingswetenschappen: Een persoonlijke kijk* (Human movement sciences: A personal view). An invited lecture at the initiation meeting of the VvBN (Dutch Society of Human Movement Sciences), Utrecht, March 14, 2002.
- Beek, P. J., Delsing, J. C., Peper, C. E., & Bullock, D., Modelling the control of interceptive actions. Invited paper presentation at the symposium "Modelling in biomechanics" at the Annual Meeting of the Society for Experimental Biology, Swansea, April 9, 2002.
- Beek, P. J., Daffertshofer, A., & Peper, C. E., Cycling between randomness and structure; reflections on brain activity and behavior. Invited paper presentation at the conference "Coordination dynamics 2002" at the Center for Complex Systems & Brain Sciences, Delray Beach, Florida, USA, May 10-11.
- Beek, P. J., Peper, C. E., & Jagacinski, R. J., Stabilization and de-stabilization of relative phase in a unimanual tracking task. Paper presented at the 7th European Workshop for Ecological Psychology, Bendor Island, France, July 4-6, 2002.
- Delsing, J. C., Bullock, D., Peper, C. E., & Beek, P. J., Prospective control of manual interceptive actions: Comparative simulations of extant and new model constructs. Paper presented at the 7th European Workshop for Ecological Psychology, Bendor Island, France, July 4-6, 2002.
- Atchy-Dalama, P., Zanone, P. G., Peper, C. E., & Beek, P. J. Effects of symmetry breaking on learning a bimanual coordination pattern. Poster presented at the 1st Meeting of Complex Systems and Sport, Barcelona, Spain, May 14-15, 2003.
- Peper, C. E., Daffertshofer, A., & Beek, P. J., Modeling rhythmic interlimb coordination: A two-tiered model. Paper presented at the 1st European Workshop On Movement Science (EWOMS), Münster, Germany, May 22-24, 2003.
- Daffertshofer, A., Peper, C. E., & Beek, P. J., Stabilization of bimanual coordination due to active inhibition — evidence from phase transitions. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Huys, R., Daffertshofer, A., & Beek, P. J., En route towards juggling dexterity: The assembly of functional subsystems into a task-specific dynamical organization. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Beek, P. J., & Daffertshofer, A., Towards a theory-based clinimetrics of movement. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Ridderikhoff, A., Peper, C. E., Carson, R. G., & Beek, P. J., Musculoskeletal dynamics of the wrist during rhythmic activity. Paper presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Delsing, J., Caljouw, S., Peper, C. E., & Beek, P. J., A neural control structure for hitting. Poster presented at the Sensorimotor Coordination 2003 Behavioural Modes and Neural Mechanisms, Frazer Island, Australia, July 6-9, 2003.
- Daffertshofer, A., Peper, C. E., & Beek, P. J., (De-)stabilization of bimanual coordination due to active inhibition. Paper presentation at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Huys, R., Daffertshofer, A., & Beek, P. J., En route towards juggling dexterity: The assembly of functional subsystems into a task-specific dynamical organization. Paper presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Delsing, J., Caljouw, S., Peper, C. E., & Beek, P. J., A neural control structure for hitting. Poster presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Delsing, J., Peper, C. E., & Beek, P. J., A comparison of real catching with catching in a CAVE. Poster presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Ridderikhoff, A., Peper, C. E., Carson, R. G., & Beek, P. J., Musculoskeletal dynamics of the wrist during rhythmic activity. Poster presented at the 12th International Conference on Perception and Action, Surfers' Paradise Gold Coast, Australia, July 13-18, 2003.
- Atchy-Dalama, P., Zanone, P. G., Peper, C. E., & Beek, P. J. How is behavioral information integrated in the coordination dynamics? The role of sensory information. Poster presented at the Xème Congrès International des Chercheurs en Activités Physiques et Sportives ACAPS (Association for researchers in physical activities and sports), Toulouse, France, October 30-November 1, 2003.
- Beek, P. J., Ergonomics and motor control. Invited keynote lecture at the Fifth International Conference on Sport, Leisure and Ergonomics. Burton Manor, The Wirral, United Kingdom, November 19-21, 2003.
- Beek, P. J., Measurement of limb movements. Invited tutorial at the Workshop Motor Control for Vision Scientists of the Perception for Recognition and Action program, Lunteren, The Netherlands, January 7-11, 2004.
- Delsing, J., Peper, C. E., and Beek, P. J., Effects of background motion on hand movements in ball catching. Poster presented at the Workshop Motor Control for Vision Scientists of the Perception for Recognition and Action program, Lunteren, The Netherlands, January 7-11, 2004.
- Roerdink, M., Peper, C. E., and Beek, P. J., The role of feedback in rhythmic visuomotor tracking: Stability and visual search patterns. Poster presented at the 8th European Workshop on Ecological Psychology, Verona, Italy, June 26-29, 2004.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., Aiming at a far target with intermittent viewing. Poster presented at the 8th European Workshop on Ecological Psychology, Verona, Italy, June 26-29, 2004.
- Beek, P. J., Perceptual-motor learning. On abundance, selection and change. Invited keynote lecture at the Satellite Symposium: Motor Behaviour of the 9th Annual Congress of the European College of Sport Science. Clermont-Ferrand, France, July 3, 2004.
- Huys, R., & Beek, P. J., Visual search patterns in the perception and production of relative motion. Paper presented at the Satellite Symposium: Motor Behaviour of the 9th Annual Congress of the European College of Sport Science. Clermont-Ferrand, France, July 3, 2004.
- Beek, P. J., A dynamical systems perspective on expertise in sports. Invited paper presentation at the III Congreso Vasco del Deporte y socialización. Vitorio-Gasteiz, Spain, November 12, 2004.
- Roerdink, M., de Haart, M., Donker, S. F., Geurts, A. C., & Beek, P. J., Postural sway complexity changes with recovery after stroke: Findings from dynamical analyses. *Gait & Posture*. Marseille, France, June 2005.
- Roerdink, M., Donker, S. F., & Beek, P. J., A methodological note to the sway-density curve: Number of peaks scales with cut-off frequency. *Gait & Posture*. Marseille, France, June 2005.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., Visual control of aiming at a far target. Paper presented at the 11th World Congress on Sport Psychology, Sydney, Australia, August 14-19, 2004.
- Delsing, J. C., Peper, C. E., Bullock, D., & Beek, P. J., A dynamical neural network for catching an approaching ball. Paper presented at the Ninth International Conference on Cognitive and Neural Systems, Boston, MA, USA, March 2005.

- Boonstra, T. W., Daffertshofer, A., and Beek, P. J. Cognitive modulation of neuronal dynamics in human action control. Poster presented at the "Biomove up and running" meeting of the European Consortium for Research into Biological Movement. Manchester Metropolitan University, Manchester, UK, April 6-7, 2005.
- Boonstra, T. W., Daffertshofer, A., and Beek, P. J. Effects of fatigue on event-related fields and alpha activity during rhythmic force production. Paper presented at the "Biomove up and running" meeting of the European Consortium for Research into Biological Movement. Manchester Metropolitan University, Manchester, UK, April 6-7, 2005.
- Roerdink, M., Peper, C. E., and Beek, P. J. The role of feedback in rhythmic visuomotor tracking: Stability and visual search patterns. Poster presented at the "Biomove up and running" meeting of the European Consortium for Research into Biological Movement. Manchester Metropolitan University, Manchester, UK, April 6-7, 2005.
- Dessing, J. C., Peper, C. E., Bullock, D., & Beek, P. J., A dynamical neural network for catching an approaching ball. Paper presented at the Ninth International Conference on Cognitive and Neural Systems, Boston (ICNS), MA, USA, May 2005.
- Beek, P. J., Veranderde bewegingssturing van de arm en hand na CVA. (Changes in motor control of arm and hand after stroke.) Invited paper presentation at the symposium "Hoe lang ga je door met therapie?" ("How long to continue with therapy?"). Symposium over arm- en handmotoriek na CVA: Actuele aspecten van de revalidatie. June 27, 2005.
- de Poel, H. J., Peper, C. E., & Beek, P. J., Handedness and asymmetry in the strength of interlimb coupling. Paper presented at the Thirteenth International Conference on Perception and Action. Pacific Grove, CA, July 5-10, 2005.
- Boonstra, T. A., Wei, K., Beek, P. J., & Sternad, D., Variability and stability during the acquisition of ball bouncing. Poster Presented at Progress in Motor Control V. A multidisciplinary perspective. Pennsylvania State University, State College, Pennsylvania, August 19, 2005.
- de Poel, H. J., Peper, C. E., & Beek, P. J., Asymmetries in bimanual coordination: Effects of handedness, directed attention and amplitude. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Frank, T. D., Wilmer, A., Friedrich, R., & Beek, P. J., Identifying the impact of perceptual information in paced and self-paced human motor control systems with neurophysiological time delays. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., Shooting in the dark. Paper presented at the 3rd Workshop of the European Network of Young Specialists in Sport Psychology, Lisbon, Portugal, November 17-18, 2006.
- van de Langenberg, R., Kingma, I., & Beek, P. J., Further evidence for a role of the center of mass in the perception of limb orientation. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Koedijker, J., Oudejans, R. R. D., & Beek, P. J., Deautomatization and relearning in perceptual-motor performance. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- de Oliveira, R. F., Oudejans, R., & Beek, P. J., Shooting in the dark. Paper presented at the 9th European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Roerdink, M., Ophoff, E., Peper, C. E., & Beek, P. J., Anchoring: A window into the control of perceptual-motor tasks. Paper presented at the Ninth European Workshop on Ecological Psychology. Groningen, The Netherlands, July 6-8, 2006.
- Selen, J. P. J., Beek, P. J., & van Dieën, J. H., Joint impedance attenuates neuro-muscular noise during target tracking. Paper presented at the Fifth World Congress of Biomechanics, Munich Germany, July 29-August 4, 2006.
- Beek, P. J., Dissecting coordination dynamics. Arthur Iberall Memorial Lecture. Center for the Ecological Study of Perception and Action, University of Connecticut, Storrs, USA, December 1, 2006.
- Smeeton, N., Huys, R. H., Beek, P. J., & Williams, A. M., Low dimensional information underlies anticipation skill in tennis. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- de Oliveira, R. F., Oudejans, R. R. D., & Beek, P. J., Current insights into the visual basis of basketball shooting. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- van Mourik, A. M., Daffertshofer, A., & Beek, P. J., Towards an appropriate analysis of the dynamics of human movement. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Ridderikhoff, A., Peper, C. E., Daffertshofer, A., & Beek, P. J., Teasing apart sources of interlimb interactions. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Roerdink, M., de Haart, M., Daffertshofer, A., Donker, S. F., Geurts, A. C. H., & Beek, P. J., Sway regularity depends on the amount of attention invested in postural control: Findings from patients recovering from stroke. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- van Ulzen, N., Daffertshofer, A., Lamoth, C. J. C., Semin, G. R., & Beek, P. J., Signs of interpersonal coordination while walking in pairs. Paper presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- de Poel, H. J., Peper, C. E., & Beek, P. J., Disentangling the effects of attention and amplitude on interlimb coordination asymmetry. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Lamoth, C. J. C., Stins, J. F., Nieuwenhuis, L., van Gulik, S., Pont, M., Kerkhoff, F., & Beek, P. J., Attentional influences on normal and pathological gait. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Roerdink, M., Lamoth, C. J. C., Kwakkel, G., van Wieringen, P. C. W., & Beek, P. J., Acoustically paced treadmill walking following stroke. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Lamoth, C. J. C., Roerdink, M., & Beek, P. J., Acoustically paced treadmill walking requires more attention than unpaced treadmill walking in healthy young adults. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- van de Langenberg, R., Kingma, I., & Beek, P. J., The implication of mechanical invariants in dynamic touch depends on their contribution to the muscular torques. Poster presented at the Third European Workshop on Movement Science (EWOMS), Amsterdam, The Netherlands, May 31-June 2, 2007.
- Beek, P. J. Bilateral coordination in health and disease. Paper presented at the the 12th Annual Congress of the European College of Sport Science (ECSS), Jyväskylä, Finland, July 11-14, 2007.
- Lamoth, C. J. C., van Lummel, R. C., & Beek, P. J. Characterization of dynamic patterns of postural sway using accelerometry. ICAMPAM, Rotterdam, The Netherlands, May 21-24, 2008.
- Beek, P. J. On the primacy of the dynamics of perception and action. 12th European Congress of Sport Psychology, Halkidiki, Greece, September 4-9, 2007.

- Koedijker, J. M., Oudejans, R. R. D., & Beek, P. J. Rule formation and table tennis performance following explicit and analogy learning over 10,000 repetitions. 12th European Congress of Sport Psychology, Halkidiki, Greece, September 4-9, 2007.
- Beek, P. J. Anchoring – theory, methods and findings. Invited keynote lecture at the 9th Biennial Motor Control and Human Skill Research Workshop, Hobart, Tasmania, Australia, January 28-31, 2009.
- Roerdink, M., Stins, J. F., & Beek, P. J. Sway regularity indexes the attention invested in postural control: synthesis and guidelines for future examination. Paper presented at the ISPGR XIX Satellite PreConference. Basic mechanisms underlying balance control under static and dynamic conditions. Pavia, Italy, June 19-20, 2009.
- Beek, P. J. Coordination dynamics as a window into motor control. Invited keynote lecture at the 7th edition of Progress in Motor Control, Marseille, France, July 23-25, 2009.
- Beek, P. J. Coordination dynamics of skill, skill learning and expertise. Invited keynote lecture at Skills 09 Enaction on Skills, the 1st International Conference on Multimodal Interfaces for Skill Transfer, Bilbao, Spain, December 15-16, 2009.
- de Boer, B. J., Peper, C. E., & Beek, P. J. How movement frequency affects the sources of interlimb interactions underlying bimanual coordination. Paper presented at the Eleventh European Workshop on Ecological Psychology. Fréjus, France, 2010.
- Bruijn, S. M., Bregman, D. J. J., Meijer, O. G., Beek, P. J., & van Dieën, J. H. The validity of stability measures: A modelling approach. Paper presented at the 16th US National Congress on Theoretical and Applied Mechanics, University Park, Pennsylvania, USA, 2010.
- van Dieën, J. H., Bruijn, S. M., Toebe, M. J. P., Meijer, O. G., Hoozemans, M. J. M., Pijnappels, M., & Beek, P. J., Estimating fall risk from unperturbed gait using gait variability and stability measures obtained with inertial sensors. Paper presented at the 6th World Congress on Biomechanics, Singapore, Singapore, 2010.
- Beek, P. J., 40 jaar bewegingswetenschappen in Nederland. VVBN Symposium 2011, Vereniging voor Bewegingswetenschappen Nederlands, Utrecht, March 25, 2011.
- Beek, P. J. New theoretical insights into motor learning and their practical significance. Key-note lecture at the 9. Gemeinsames Symposium der dvs-Sektionen Biomechanik, Sportmotorik und Trainingswissenschaften. "NeuroMotion": Aufmerksamkeit, Automatisierung, Adaptation. Westfälische Wilhelms Universität, Münster, Germany, March 21, 2012.
- Heeren, J., van Ooijen, M., Janssen, T., Beek, P., Geurts, A., Roerdink, M., & Weerdesteijn, V. C-Mill therapy improves gait adaptability in the chronic phase after stroke. Poster presented at the 7th World Congress for NeuroRehabilitation, Melbourne, Australia, May 16-19, 2012.
- Beek, P. J. Anchoring: A window into the neural control of movement. La journée scientifique de l'Institut des Sciences du Cerveau de Toulouse. Invited lecture. May 29, 2012.
- de Boer, B. J., Peper, C. E., & Beek, P. J. How movement frequency affects interlimb interactions underlying bimanual coordination. Poster presented at FENS.
- van Delden, L., Peper, C. E., Kwakkel, G., & Beek, P. J. Upper limb TRaining After stroke: Contrasting the clinical effects and underlying mechanisms of unilateral and bilateral training.
- Hak, L., Houdijk, H., Steenbrink, F., Mert, A., van der Wuff, P., Beek, P. J., & van Dieën, J. H. Stepping strategies to optimize adaptability and stability during gait.
- Hak, L., Houdijk, H., Steenbrink, F., Mert, A., van der Wuff, P., Beek, P. J., & van Dieën, J. H. How to prevent falling in an unstable environment? Gait adaptations in response to balance perturbations.
- de Boer, B. J., Peper, C. E., & Beek, P. J., Development of spatial and temporal bimanual coordination during childhood. Poster presented at the NCM 22nd Annual Meeting. Venice, Italy, April 23-29, 2012.
- de Boer, B. J., Peper, C. E., & Beek, P. J., Changes in functional interlimb interactions when learning a new bimanual coordination pattern with an internal or external focus of attention. Paper presented at the 12th European Workshop on Ecological Psychology. Madrid, Spain, June 28, 2012.
- de Boer, B. J., Peper, C. E., & Beek, P. J., Development of spatial and temporal bimanual coordination during childhood. Poster presented at the Motor Control Summer School IX. Tihany, Hungary, June 14-18, 2012.
- Beek, P. J., Individual optimization of generic techniques in elite sports. Frontiers in Sport and Exercise Science and Medicine. Expertise and its acquisition across domains. Brunel University, London, May 15, 2013.
- Beek, P. J. Current insights into motor learning and their applications. Invited keynote lecture at the 10th edition of Progress in Motor Control, Budapest, Hungary, July 22-25, 2015.

Organization of professional symposia and conferences (n = 12)

- Bingham, G. P., Kay, B., & Beek, P. J., *Dynamical models of perception-action systems*. Symposium organized at the Vth International Conference on Event Perception and Action, Oxford, Miami, OH, U.S.A., 1989.
- Beek, P. J., *On the origin of temporal order in movement coordination*. Symposium organized at the Faculty of Human Movement Sciences, Vrije Universiteit of Amsterdam, The Netherlands, 1989.
- Beek, P. J., Bootsma, R. J., van Wieringen, P. C. W., & Reijmers, M., *The VIth International Conference on Event Perception and Action*, Faculty of Human Movement Sciences, Vrije Universiteit of Amsterdam, The Netherlands, 1991.
- Beek, P. J., & Bootsma, R. J., *Ball skills*. Symposium organized at the VIth International Conference on Event Perception and Action, Faculty of Human Movement Sciences, Vrije Universiteit of Amsterdam, The Netherlands, 1991.
- Beek, P. J., & Guiard, Y., *Stability, (a)symmetry, and constraints in two-effector coordination*. Symposium organized at the Second European Conference on Ecological Psychology, University of Strathclyde, Glasgow, Scotland, 1992.
- Beek, P. J., Riccio, G., & Newell, K. M., *Affordances and task constraints in intentional systems*. Symposium organized at the VIIth International Conference on Event Perception and Action, University of British Columbia, Canada, 1993.
- Ingen Schenau, G. J. van, & Beek, P. J., *Coordination of multi-joint movement*. Symposium organized at the Second World Congress of Biomechanics, Amsterdam, The Netherlands, 1994.
- Brinker, B. P. L. M. den, Beek, P. J., Hollander, A. P., & Nieuwboer, R. T., *Zesde Workshop Computers in de Psychologie*. Amsterdam, The Netherlands, 1996.
- Beek, P. J., *Synergetics of perceptual-motor actions*. Workshop organized at the Faculty of Human Movement Sciences and the Institute for Fundamental and Clinical Human Movement Sciences, Amsterdam, The Netherlands, 1998.
- Peper, C. E., & Beek, P. J., *Timekeepers versus oscillators*. Symposium organized at the Tenth International Conference on Perception and Action, University of Edinburgh, Edinburgh, Scotland, 1999.

Beek, P. J., *Rhythmic interlimb coordination: Dynamics, neural underpinnings and cognition*. Workshop organized at the Faculty of Human Movement Sciences and the Institute for Fundamental and Clinical Human Movement Sciences, Amsterdam, The Netherlands, 2000.

Beek, P. J., *Control of interceptive actions*. Workshop organized at the Faculty of Human Movement Sciences and the Institute for Fundamental and Clinical Human Movement Sciences, Amsterdam, The Netherlands, 2005.

Beek, P. J., *On the coordination dynamics of skill acquisition: A neglected dimension of expertise*. Symposium organized at the Eleventh European College of Sport Science, Lausanne, Switzerland, July 6-July 8, 2006.

Beek, P. J., Schöllhorn, W., & Verwey, W., *Third European Workshop on Movement Science (EWOMS)*, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, May 31-June 2, 2007.

Beek, P.J., organization of plenary session "The choreography of movement and the brain", with presentations by Scott Kelso and Scott DeLahunta), *18th Annual Congress of the European College of Sport Science, ECSS Barcelona 2013, Unifying Sport Science*, The National Institute of Physical Education of Catalonia (INEFC), June 26-June 29, 2013.

De Haan, A., van Mechelen, W., & Beek, P.J. (congress presidents), *19th Annual Congress of the European College of Sport Science, ECSS Amsterdam 2014, Sport Science Around the Canals*, Faculty of Human Movement Sciences, Vrije Universiteit Amsterdam, and Faculty of Medicine, VU Medical Center, July 2-July 5, 2014.

Smeets, J. B. J., & Beek, P. J., *Progress in Motor Control XII 2019: Movement improvement*. Faculty of Behavioural and Movement Sciences, Vrije Universiteit Amsterdam and Amsterdam UMC, July 7-July 10, 2019.

Invited departmental colloquia

Department of Psychology, University of Nijmegen, The Netherlands, 1987.

Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1987.

Haskins Laboratories, New Haven, CT, U.S.A., 1987.

Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1988.

Haskins Laboratories, New Haven, CT, U.S.A., 1988.

Department of Psychology, Brown University, Providence, RI, U.S.A., 1988.

Department for Electrical Engineering, Yale University, CT, U.S.A., 1989.

Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1989.

Haskins Laboratories, New Haven, CT, U.S.A., 1989.

Psychology Department, Wentworth College, University of York, U.K., 1990.

Psychology Department, Indiana University, Bloomington, IN, U.S.A., 1990.

Artificial Intelligence Laboratory, M.I.T., Cambridge, MA, U.S.A., 1990.

Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1990.

64e Nederlandse Astronomenconferentie (64th Dutch Conference for Astronomers and Astrophysicists), Lunteren, The Netherlands, 1991.

Laboratory for Form Theory, Technical University Delft, The Netherlands, 1991.

Department of Psychology, Tilburg University, The Netherlands, 1991.

Department of Psychology, University of Connecticut, Storrs, CT, U.S.A., 1991.

Department of Psychology, Brown University, Providence, RI, U.S.A., 1991.

Department of Kinesiology, University of Illinois at Champaign-Urbana, IL, U.S.A., 1991.

Institute for Theoretical Physics and Synergetics, University of Stuttgart, FR Germany, 1992.

C.N.R.S., Marseille, France, 1992.

Department of Psychology, Tulane University, New Orleans, LA, U.S.A., 1992.

Department of Computational Linguistics, University of Amsterdam, Amsterdam, The Netherlands, 1993.

Department of Physics and Astronomy, University of Utrecht, The Netherlands, 1994.

Department of Psychology, N.I.C.I., University of Nijmegen, The Netherlands, 1995.

Department of Physiology, Erasmus University Rotterdam, The Netherlands, 1996.

Department of Medical Physics, Catholic University of Nijmegen, The Netherlands, 1996.

Department of Physics and Astronomy, University of Utrecht, The Netherlands, 1997.

Department of Measurement and Control Technology, Technical University Delft, The Netherlands, 1998.

Department of Psychology, Ohio State University, Columbus, OH, U.S.A., 1998.

Center for the Study of Complex Systems, Florida Atlantic University, Boca Raton, FL, U.S.A., 1998.

Center for Sports and Exercise Science, John Moores University Liverpool, Liverpool, U.K., 2002.

Penn State University, College Park, PA, U.S.A., 2002.

Department of Psychology, Florida State University, Tallahassee, U.S.A., 2002.

Department of Psychology, N.I.C.I., University of Nijmegen, The Netherlands, 2004.

Max-Planck Institute, Munich, Germany, 2004.

Department of Psychology, University of Connecticut, Storrs, U.S.A., 2004.

Department of Cognitive and Linguistic Sciences, Brown University, Providence, U.S.A., 2004.

Institute of Human Performance, University of Hong Kong, Hong Kong, 2005.

Fujian Medical University (and affiliated hospitals in QuanZhou and Xiamen), FuZhou, China, 2005.

UFR STAPS, Université Paul Sabatier, Toulouse, France, 2005.

Cognition and Communication Research Centre, School of Psychology and Sport Science, Northumbria University, United Kingdom, 2008.

Invited teaching activities

Educational program for sport physiotherapist organized by the N.I.S.G.Z., later N.I.S.G. (National Institute for Sports Health Care) (on a regular basis since 1985);

Educational program for sport physiotherapist organized by the I.T.O.N. (Institute for Applied Neurological Research) (on a regular basis since 1985);

Educational programs for additional training in rehabilitation and physiotherapy organized by the Netherlands Paramedical Institute (on a regular basis since 1985);

Application courses and invited course-work for sport coaches organized by the K.N.L.T.B. (Royal Netherlands Lawn Tennis Association), the K.N.K.B.B. (Royal Netherlands "Korfbal" Association), the K.N.B.B. (Royal Netherlands Badminton Association), the K.N.A.U. (Royal Netherlands Athletics Association), the N.H.B. (Dutch Archery Association) (on a regular basis since 1985);

“Dritten dvs-Sommerakademie” organized by K.-H. Leist, Willy Weyer Akademie, Führungs- und Verwaltungsakademie Berlin des Deutschen Sportbundes, Berlin, FR Germany, 1992.

Guest course (12 h.) entitled “Introduction to nonlinear dynamics with applications in the study of human movement”, Université d’Aix-Marseille II, Centre de Recherche de l’U.F.R. S.T.A.P.S., France, 1993.

Workshop on the “physics of juggling” for physics teachers at high schools (“Werkgroep Natuurkunde Didactiek”), Noordwijkerhout, 1995.

Guest lecture entitled “De ecologische benadering van waarnemen en bewegen” [The ecological approach to perception and action] in the summer course “De hogeschool van de zintuigen” [“The academy of the senses”], Internationale School voor Wijsbegeerte, Leusden, 1999.

Supervised Bachelor’s and Master’s Research Internships

Wimmers, R. H. (1990). *Phase transitions in coordinated rhythmic movements: From phenomenology to mechanism*. Dr. P. J. Beek and dr. P. C. W. van Wieringen.

Jonker, M. P. J. (1994). *Handboek handbal-dynamica. [Handbook handball dynamics]*. Advisors: Prof.dr. W. J. Beek and dr. P. J. Beek.

Lamoth, C. J. C. (1994). *The movement deficits of stroke patients: A problem of coordination*. Advisors: Dr. M. Levin, dr. O. G. Meijer and dr. P. J. Beek.

Verschoor, F. (1996). The continuation paradigm. A synergetic approach. Advisors: Dr. P. J. Beek and prof.dr. J. A. S. Kelso.

van Weperen, R. J. and Prins, E. R. (1998). *The role of optical information in swinging*. Advisors: Prof.dr. P. J. Beek and drs. A. A. Post.

Teunissen, R. A. G. (1998). *Segmental analysis of postural sway in two stance positions*. Advisors: Prof.dr. P. J. Beek and prof.dr. M. T. Turvey.

Dessing, J. C. (2000). *The role of proprioceptive information in the dynamics of bimanual coordination*. Dr. C. E. Peper and prof.dr. P. J. Beek.

Van Berlicum, M., van Eck, M., Roesscher, I., and Wedding, T. (2000). *Mechanische eigenschappen die de haptische perceptie van de lengte van stokken bepalen [Mechanical properties determining the haptic perception of rod length]*. Dr. I. Kingma and prof.dr. P. J. Beek.

Tromp, P. (2002). *A comparison of discrete and cyclical movements: kinematics and control*. Advisors: Prof.dr. P. J. Beek and dr. C. E. Peper.

Van Ulzen, N. R. and Waaijman, R. (2003). *Effect of altered limb dynamics on the adaptive control of rapid right and left arm aiming movements*. Advisors: Prof.dr. G. A. Anson and prof.dr. P. J. Beek.

Albers, E. (2004). Grasping real and virtual balls: Differences in timing. Advisors: Prof.dr. P. J. Beek, drs. J. Dessing and dr. E. Otten.

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