

Curriculum Vitae

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Personal Data

Name: Nikolaus Friedrich Troje

Affiliations: Department of Psychology (main affiliation)
Queen's University
Kingston, Ontario K7L3N6

School of Computing (cross-appointed)
Queen's University

Department of Biology (cross-appointed)
Queen's University

Centre for Neuroscience Studies (active member)
Queen's University

Centre of Vision Research (adjunct professor)
York University
Toronto, Ontario M3J 1P3

International Research Training Group (IRTG) "The Brain in Action" (active member)
(NSERC CREATE, German Research Foundation) Queen's University, York University,
University of Western Ontario, Justus-Liebig University Gießen, Philipps-Universität
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Education

1980-1981 Philosophy, Johann-Wolfgang-Goethe Universität, Frankfurt

1983-1984 Apprenticeship in farming, completing the "Landwirtschaftliche Gehilfenprüfung" at the Landwirtschaftskammer Rheinland-Pfalz

1984-1987 Physics, Mathematics, Albert-Ludwigs Universität, Freiburg

1984-1990 Biology, Albert-Ludwigs Universität, Freiburg

1989 "Diplom-Arbeit"^a (Polarization Vision in Honeybees). Supervisor: Prof. Dr. S. Rossel

1990	“Biologie-Diplom” ^a with a focus on Animal Physiology, Biophysics and Genetics (grade: 1.1), Albert-Ludwigs Universität, Freiburg
1990-1994	PhD Program and Dissertation (Colour Vision in Blowflies). Supervisor: Prof. Dr. K. Vogt (grade: summa cum laude ^b), Albert-Ludwigs Universität, Freiburg.
1998	Habilitation ^c and Venia legendi for Animal Physiologie at the Eberhard-Karls-Universität, Tübingen
1999	Habilitation ^c and Venia legendi for Biopsychology at the Ruhr-Universität, Bochum

^a Most of my training took place in Germany. The German “Diplom” is equivalent to the North American Master degree. It involves a one year research project, the “Diplom-Arbeit”. Grades range from 1(best) to 6.

^b Grades for the Dissertation follow the old latin categories. “summa cum laude” is the highest possible grade which is awarded only rarely.

^c The German “Habilitation” is another promotion that was a requirement to become eligible for Full Professorship positions in Germany. After a number of years (typically 4 to 6) of postdoctoral research and teaching, the candidate had to document his/her scholarship by providing a board of external and internal senior professors with a dossier of collected publications and a cumulative teaching record. If the evaluation is successful, a “Venia legendi” is granted that specifies the area in which the candidate is considered an expert and licensed to teach.

Professional Experience

1994-1997	“Wissenschaftlicher Assistent” at the Max Planck-Institute for Biological Cybernetics in Tübingen, Germany.
1997-1999	Visiting Professor at the Department of Psychology, Queen’s University, Kingston, Ontario, Canada.
April - Dec 1999	Consultant for Xerox PARC, Palo Alto, California
1999-2005	Research group leader at the Department of Psychology, Ruhr-Universität, Bochum, Germany
since 2003	Director of the BioMotion Lab, Queen's University
2003 - 2008	Canada Research Chair in Vision and Behavioural Sciences (1st term)
2003 - 2008	Associate Professor at the Department of Psychology, Queen’s University, Kingston, Ontario
2004 - 2008	Associate Professor at the School of Computing, Queen’s University (cross-appointed)
since July 2006	Adjunct Professor at the Centre of Vision Research, York University
2008 - 2013	Canada Research Chair in Vision and Behavioural Sciences (2nd term)

- since July 2008 Full Professor at the Department of Psychology, Queen's University, Kingston, Ontario
- since July 2008 Full Professor at School of Computing, Queen's University (cross-appointed)
- since Jan 2011 Full Professor at the Department of Biology, Queen's University (cross-appointed)
- since 2014 Director of Queen's Biological Communication Centre.
- Jan – June 2015 Visiting Professor at Max-Planck Institute for Intelligent Systems, Tübingen, Germany.
- Nov – Dec 2015 Visiting Professor at Justus-Liebig University, Giessen, Germany.

Honors, Awards, Grants

- 1989 - 1993 Member of the "Studienstiftung des deutschen Volkes" ^d
- 1990 -1993 Scholarship from the "Landes-Graduierten-Förderung" ^e
- 1994 Hans Spemann Award of the Albert-Ludwigs Universität, Freiburg for the best Ph.D. thesis in life sciences in that year.
- 1995 DAGM-Preis 1995 of the Deutsche Arbeitsgemeinschaft für Mustererkennung (German Association for Pattern Recognition) for:
T. Vetter and N. Troje: Separation of texture and two-dimensional shape in images of human faces.
- 1997 - 1999 Feodor-Lynen Award from the Alexander-von-Humboldt Foundation ^f
- 1999 Research grant from Xerox PARC.
- 1999 - 2005 Nachwuchsgruppen Förderung (Young Researcher Award) from the Volkswagen-Stiftung ^g, equivalent to \$2,000,000 US for six years)
- 2002 - 2004 German Research Foundation (DFG) grant within SFB 509 (\$300.000 US for three years)
- 2003 - 2008 Canada Research Chair in Vision and Behavioural Sciences
- 2003 Infrastructure grant from Canada Foundation for Innovation (CFI) and Ontario Innovation Fund (OIT), together (\$500,000 US)
- 2004 Premier's Research Excellence Award (PREA, \$150,000 US)
- 2005 Ontario Distinguished Researcher Award
- 2005 - 2009 Associate of CIFAR group: Neural Computation and Adaptive Perception
- 2005 - 2010 NSERC Discovery Grant
- 2006 Queen's Chancellor's Research Award

2008 - 2009	NSERC E.W.R. Steacie Fellowship
2008 - 2013	Canada Research Chair in Vision and Behavioural Sciences (2nd term)
2009 - 2015	Senior Fellow of CIFAR group: Neural Computation and Adaptive Perception
2014	Humboldt Research Prize of the Alexander von Humboldt Foundation ^h

^d *The “Studienstiftung des deutschen Volkes” is the oldest and most prestigious German foundation for highly gifted students.*

^e *“Landes-Gradierten-Förderung” provides provincial funding for exceptional graduate students.*

^f *The “Feodor-Lynen Award” grants highly qualified German scholars from all disciplines the opportunity to carry out long-term research projects at institutions outside Germany. I used the award to spend two years at Queen’s University.*

^g *The “Nachwuchsgruppen Förderung” of the Volkswagen Foundation used to be one of the most prestigious awards available in Germany. Every year from 1997 until 2003 between 8 and 10 young researchers were chosen across all academic disciplines and awarded with a very generous and flexible funding to set up and run a whole research group for up to 6 years. In fall 1999, I received the equivalent of \$2,000,000 US to set up an independent research group at Ruhr University in Bochum, Germany. As a group leader, I was granted the status of a Full Professor in the Department of Psychology.*

^h *The Humboldt Research Prize is a lifetime achievement award endorsed with a prize money of €60,000 and the invitation to visit a research institution in Germany.*

Teaching Experience

1990, 1991	Summer lab course (6 week courses): Orientation of honeybees: landmarks or cognitive maps?
1991, 1992	Animal physiology course, part: Colour vision
1992	Organisation of sensory physiology seminar course: Comparative colour vision
1994	Seminar course: Psychophysics of colorvision, together with C. Wehrhahn
1995	Seminar course: Orientation and navigation, together with D. Varju
1995	Biocybernetics course: Psychophysical methods
1996	Lab course: Psychophysics of cognitive processes
1996	Seminar course: Symmetry and symmetry detection
1996	Biocybernetics course: Psychophysical methods.
1997	Lab course: Psychophysics of cognitive processes
1999	Seminar course: Comparative sensory physiology (Queen’s University)
2000	Seminar course: Learning and memory

2000 Lecture course: Vision (Summerschool Neuroscience, Konstanz, Germany)

2001 Seminar course: Mechanisms of visual perception

2001 Seminar course: Cognitive neuroscience

2001 Lecture course: Brain science: From light to vision

2002 Seminar course: Cognitive neuroscience

2002 Lecture/Lab course: Scientific computing: An introduction into Matlab

2003 Lecture/Lab course: Motion analysis

2004 - 2006 Experimental Psychology: Sensation and Perception (PSYC 215)

2004 Advanced Special Topics in Cognitive Science (PSYC 971)

2005 Visual and Auditory Processes: Multisensory Integration (PSYC 921)

2005 - 2006 Advanced Perception Lab Course (PSYC 380)

2008 Directed lab course (PSYC 570): Pigeon operant conditioning

2009 Visual and Auditory Processes: Vision and Visual Illusion (PSYC 921)

2010 Foundations of Cognition and Perception (PSYC 833)

2010 Visual Perception of Human Motion (Summer School on Neural Computation and Adaptive Perception, Toronto)

2010 Directed reading course (PSYC 571): Depth ambiguity

2011 Vision: Mechanisms, Algorithms, Models (PSYC 921)

2011 Directed reading course (PSYC 571): Psychophysical approaches to the correspondence problem

2012 Visual Perception as Bayes'ian Inference (PSYC 970)

2013 Summer School in Computational Sensory-Motor Neuroscience, Queen's Univ.

2013 Visual and Auditory Processes: Classic Experiments (PSYC 921 and PSYC 420)

2011 – 2013 Brain, Behaviour, and Cognitive Science seminar (PSYC 811/812/907/908)

2016 Perception, Inference, Intelligence (PSYC 921 and PSYC 420)

2016 - 2017 Advanced perception (PSYC 380)

2010 - 2017 Experimental Psychology: Sensation and Perception (PSYC 215)

2017 Embodied Cognition (PSYC 834)

Administrative duties

2002 - 2003	Education Committee of the International Graduate School for Neuroscience, Ruhr-University, Bochum, Germany.
2004 - 2007	Education and Training Committee, Centre for Neuroscience Studies, Queen's University
since 2004	Animal Care Advisory Group
2005 - 2007	Library Officer, Department of Psychology, Queen's University.
2009 - 2010	Chair Animal Advisory Group
2010 - 2014	Chair of Graduate Program: Brain, Behaviour, and Cognitive Science
2012 - 2016	University Animal Care Committee
2017	Chair of Graduate Program: Brain, Behaviour, and Cognitive Science

Other services

since 2009	Member of the Editorial Board of the journals Perception and iPerception
since 2009	Advisory Committee member for Viperlib (viperlib.york.ac.uk)
2008	Served as a judge on the Best Visual Illusion of the Year Contest
2009 - 2011	Associate Editor of the journal Frontiers in Perception Science
2012/13	Program committee member of the IEEE International Conference on Automatic Face and Gesture Recognition
2017	Co-organization of Matariki Spring School "High-Level Vision: From Mechanisms to Perception, University of Tübingen, April 10-13.
2017	Program committee member of CAPnet-CPS CAN-ACN Satellite Symposium "Perception, Action and their interaction: Data, Models and Dysfunction" Montreal, May 27.
2017	Organization of Annual Retreat of IRTG CREATE Graduate School "The Brain in Action", Queen's University, August 14-19.
2017	Workshop "Motion Capture Technology". Queen's University, August 21.

Reviewing referee for journals

acta psychologica
Biological Cybernetics
Cerebral Cortex

Cognitive Brain Research
Cognitive Science Society
Current Biology
Evolution and Human Behaviour
Gait and Posture
Human Movement Science
IEEE Computer Graphics and Applications
Journal of Comparative Physiology
Journal of Experimental Psychology:Animal Behavior Processes
Journal of Neuroscience
Journal of Neuroscience Methods
Journal of Vision
Laterality
Movement Science
Nature
Nature Communications
Nature Neuroscience
Neuroreport
Neuroscience Letters
Pattern Recognition
Perception & Psychophysics
PLoS Biology
Proceedings of the National Academy of Science
Proceedings of the Royal Society of London
Psychological Research
Psychological Science
Psychonomic Bulletin & Review
Science

Seeing and Perceiving

SIGGRAPH Asia

Vision Research

Visual Cognition

Zeitschrift für experimentelle Psychologie

Reviewing referee for funding agencies

Deutsche Forschungsgemeinschaft (DFG)

Canada Foundation for Innovation (CFI)

Canada Research Chair program

Israel Science Foundation (ISF)

National Science Foundation (NSF)

National Science and Engineering Research Council of Canada (NSERC)

The Wellcome Trust

Volkswagen Foundation

Current professional affiliations

Association for Computing Machinery (ACM)

Society for Experimental Biology (SEB)

Vision Science Society (VSS)

Canadian Society for Brain, Behaviour and Cognitive Science

International Society for Neuroethology

Alexander-von-Humboldt Foundation

Japanese Society for the Promotion of Science

Deutscher Hochschulverband

Deutsche Gesellschaft für Psychologie

Deutsche Zoologische Gesellschaft

Alumni der Studienstiftung e.V.

Invited talks

102. York University, Toronto (2017)
101. University of Vienna (2017)
100. University of Tübingen (2017)
99. University of Gießen (2016)
98. Pace Gallery, New York (2016)
97. Le Lab, Cambridge, MA (2016)
96. University of Bonn (2015)
95. University of Münster (2015)
94. University of Tübingen (2015)
93. University of Mainz (2015)
92. Max-Planck-Institute for Intelligent Systems, Tübingen (2015)
91. University of Gießen (2015)
90. University of Bielefeld (2015)
89. University of Witten-Herdecke (2015)
88. University of Vienna, Cognitive Biology (2015)
87. Cuban Neuroscience Centre, Havana, Cuba (2014)
86. Montreal Vision Research, McGill (2014)
85. International Research and Training Group "The Brain in Action" (2014)
84. Max-Planck-Institute for Intelligent Systems, Tübingen (2014)
82. Keynote address, Lake Ontario Visionary Establishment meeting, Niagara on the Lakes (2014)
82. Human Mobility Research Centre, Queen's University (2014)
81. Department of Biophysics, Chinese Academy of Science, Beijing (2014)
80. School of Computer Science and Engineering, Seoul National University (2012)
79. Department of Computer Science, University of Hannover (2012)
78. Human Mobility Research Centre, Queen's University (2011)
77. Department of Psychology, University of Hamburg (2011)

76. Eikones, University of Basel (2011)
75. Department of Biology, Queen's University (2011)
74. Department of Psychology, University of Western Ontario (2010)
73. Department of Biology, Queen's University (2009)
72. Department of Psychology, Freiburg University (2009)
71. Frankfurt Institute for Advance Studies (2009)
70. Bernstein Center for Computational Neuroscience, Freiburg (2008)
69. School of Optometry, Université de Montréal (2008)
68. CERNEC, Université de Montréal (2007)
67. Department of Psychology, Carleton University, Ottawa (2007)
66. Department of Psychology, University of Alberta, Edmonton (2007)
65. Department of Psychology, Kyoto University, Tokyo, Japan (2007)
64. Primate Research Institute, Inuyama, Japan (2007)
63. Department of ComputerScience and Engineering, Kagoshima University, Japan (2007).
62. Global COE symposium on Biological Motion Perception, Keio University, Tokyo (2007)
61. Faculty of Life Sciences, University of Vienna (2007)
60. Department of Psychology, University of Manitoba (2007)
59. Department of Psychology, Indiana University, Bloomington (2006)
58. International Symposium: Social Cognition as a Higher Brain Function, Keio University, Tokyo (2006)
57. Department of Ophthalmology, McGill University (2006)
56. Center for Vision Research, York University (2006)
55. Department of Psychology, Concordia University (2005)
54. Department of Mathematics, Queen's University (2005)
53. Max-Planck-Institute for Biological Cybernetics, Tübingen (2005)
52. Max-Planck-Institute for Human Development, Berlin (2005)
51. Center for Neuroscience Studies, Queen's University (2005)

50. Department of Psychology, McMaster University (2004)
49. Department of Physical Education, Queen's University (2004)
48. Department of Psychology, New York University (2004)
47. Laboratoire Électronique Informatique, University of Dijon (2004)
46. Department of Computer Science, University of Toronto (2004)
45. Department of Psychology, Harvard University (2004)
44. Queen's University: EEB Seminar, Biology (2003)
43. CNUCs meeting: Field's Institute, University of Toronto (2003)
42. Sheridan College, Oakville, Ontario: School of Animation (2003)
41. HPCVL, Queen's University, Kingston, Ontario (2003)
40. Queen's University: BBCS Seminar, Psychology (2003)
39. University of Saarbrücken, Psychology (2003)
38. University of Bremen, Center for Brain Research (2003)
37. EURESCO Conference on Three Dimensional Sensory and Motor Space, Acquafredda di Maratea, Italy (2003)
36. Vicon User Meeting, Heidelberg (2002)
35. Queen's University, Kingston, Ontario: Psychology (2002)
34. University of Giessen, Psychology (2002)
33. LMU, München, Graduate School Neurosensoric (2002)
32. ATR, Kyoto, Japan (2002)
31. University of Oldenburg: Biology (2001)
30. University of Freiburg: Biology and Neurology (2001)
29. Max-Planck-Institute for Cognitive Neuroscience, Leipzig (2001)
28. Max-Planck-Institute for Biological Cybernetics, Tübingen (2001)
27. University of Konstanz: Psychology (2001)
26. University of Essen: Anatomy (2001)
25. Max-Planck-Institut für Verhaltensphysiologie, Seewiesen, (2000)
24. Queen's University, Kingston, Ontario: Psychology (2000)

23. University of Bielefeld: Mathematics (2000)
22. University of Aachen: Biology (2000)
21. University of South Florida, Tampa: Psychology (2000)
20. University of Minnesota, Minneapolis: Psychology (1999)
19. McMaster University, Hamilton, Canada: Psychology (1999)
18. NEC Research Institute, Princeton, New Jersey (1998)
17. New York University, Center of Neural Sciences (1998)
16. University of Berlin, Biology (1997)
15. Max-Planck-Institute for Biological Cybernetics, Tübingen (1997)
14. University of Munich: Psychology (1997)
13. University of Glasgow, UK: Psychology (1996)
12. University of Tübingen: Neurology (1996)
11. Salk Institute, La Jolla (1996)
10. University of California, Irvine: Psychology (1996)
9. University of Southern California, Los Angeles: Psychology (1996)
8. University of California, Santa Barbara: Psychology (1996)
7. University of Tübingen: Eye Clinic (1995)
6. University of Minnesota, Minneapolis: Psychology (1995)
5. University of Berlin: Biology (1994)
4. University of Aachen, Germany: Biology (1994)
3. Max-Planck-Institute for Biological Cybernetics, Tübingen (1994)
2. Cambridge, UK: Psychology (1993)
1. University of Erlangen, Germany: Biology (1993)

List of publications

a. Refereed journal articles

110. Ross, G., Dowling, B., Graham, R., Troje, N. F., Fischer, S. L., Graham, R. B. (in press) Objectively differentiating whole-body movement patterns between elite and novice athletes. *Medicine & Science in Sports & Exercise*.
109. Wang, Y., Wang, L., Xu, Q., Liu, D., Chen, L., Troje, N. F., He, S., Jian, Y. (2018) Heritable aspects of biological motion perception and its covariation with autistic traits. *PNAS*. Early Edition, doi: 10.1073/pnas.1714655115.
108. Weech, S.; Troje, N. F. (2018) Inverting the facing-the-viewer bias for biological motion stimuli. *iPerception* 1-14
107. Bottari, D.; Kekunnaya, R.; Hense, M.; Troje, N. F., Sourav, S.; Röder, B.; (2018) Motion processing after sight restoration: No competition between visual recovery and auditory compensation. *NeuroImage* 167:284-296
106. Larson, D., Paulter, N., Troje, N. F. (in press) Walk-through metal detector testing and the need to emulate natural body motion. *Journal of Testing and Evaluation*.
105. Helm, F., Troje, N. F., Munzert, J. (2017) Motion database of disguised and non-disguised team handball penalty throws by novices and experts. *Data in Brief* 15:981986
104. Theunissen, L., Troje, N. F. (2017) Head stabilization in the pigeon: Role of vision to correct for translational and rotational disturbances. *Frontiers in Neuroscience* 11/551:1-12.
103. Helm, F., Munzert, J., Troje, N. F. (2017) Kinematic patterns underlying disguised movements: Spatial and temporal dissimilarity compared to genuine movement patterns. *Human Movement Science* 54:308-319.
102. Veto, P., Einhäuser, W., Troje, N. F. (2017) Biological motion distorts size perception. *Scientific Reports* 7 (42576):1-6.
101. Weech, S., Troje, N. F. (2017) Vection is facilitated by bone-conducted vibration and noisy galvanic vestibular stimulation. *Multisensory Research* 30:65-90.
100. Fini, C., Bardi, L., Troje, N. F., Committeria, G., Brass, M. (2017) Priming biological motion changes extrapersonal space categorization. *Acta Psychologica* 172:7783.
99. Theunissen, L., Reid, T. Troje, N. F. (2017) Pigeons use distinct stop phases to control pecking. *Journal of Experimental Biology* 220:437-444.
98. Cui, A., Dierks, C., Cuddy, L., Troje, N. F. (2016) Short and long term representation of an unfamiliar tone distribution. *Peer J.* 4:e2399, 1-19.
97. Lisney, T. J., Troje, N. F. (2016) Head-bobbing in the Ring-billed Gull (*Larus delawarensis*) *Canadian Field Naturalist* 2:174-177
96. Ware, E. L. R., Saunders, D. R., Troje, N. F. (2016) Social interactivity in pigeon courtship behavior. *Current Zoology*.
95. Bottari, D., Troje, N.F., Ley, P., Hense, M., Kekunnaya, R., and Röder, B. (2016) Sight restoration in humans after congenital blindness does not reinstate alpha oscillations and related behavior. *Scientific Reports* 6.
94. Phillipou, A., Rossell, S., Gurvich, C., Castle, D. Troje, N.F. Abel, L. (2016) Body image in anorexia nervosa: body size estimation utilizing a biological motion task and eye tracking. *European Eating Disorders Review* 24:131-138.
93. Klüver, M., Hecht, H. Troje, N. F. (2016) Internal consistency predicts attractiveness in biological

- motion walkers. *Evolution and Human Behavior* 37:40-46.
92. Bottari, D., Troje, N. F., Ley, P., Hense, M., Kekunnaya, R., Röder, B. (2015) The neural development of the biological motion processing system does not rely on early visual input. *Cortex* 71:359-367.
 91. Bardi, L., Di Giorgio, E., Troje, N. F., Simion, F. (2015) Walking direction triggers visuo-spatial orienting in 6-month-old infants and adults: An eye tracking study. *Cognition* 141:112-120.
 90. Ware, E., Saunders, D., Troje, N. F. (2015) The influence of motion quality on social responses towards video playback stimuli. *Biology Open* 4:803-811.
 89. Cui, A. X., Collett, M. J., Troje, N. F., Cuddy, L. L. (2015) Familiarity and preference for pitch probability profiles. *Cognitive Processes* 16:211-218.
 88. Heenan, A., Troje, N. F. (2015) The relationship between social anxiety and the perception of depth-ambiguous biological motion stimuli is mediated by inhibitory ability. *Acta Psychologica* 157: 93-100.
 87. Chen, S. C., Xiao, C., Troje, N. F., Robertson, M., Hawryshyn, C. W. (2015) Functional characterization of the chromatically antagonistic photosensitive mechanism of erythrophores in the tilapia *Oreochromis niloticus*. *Journal of Experimental Biology* 218: 748-756
 86. Michalak, J., Rohde, K., Troje, N. F. (2015) How we walk affects what we remember: Gait modifications through biofeedback change negative affective memory bias. *Journal of Behavior Therapy and Experimental Psychiatry* 46:121 – 125.
 85. Heenan, A., Best, M. W., Ouellette, S. J., Meiklejohn, E. , Troje, N. F., Bowie, C. R. (2014) Assessing threat responses towards the symptoms and diagnosis of schizophrenia using visual perceptual biases. *Schizophrenia Research Schizophrenia research* 159(1), 238-242.
 84. Weech, S., McAdam, M., Kenny, S., Troje, N. F. (2014) What causes the facing bias in biological motion? *Journal of Vision*. 14(12):10.
 83. Williamson, K. E., Jakobson, L S., Saunders, D. R., Troje, N. F. (2014) Local and global aspects of biological motion perception in children born very preterm. *Child Neuropsychology* 21(5), 603-628.
 82. Heenan, A., Troje, N. F. (2014) Both physical exercise and progressive muscle relaxation reduce the facing-the-viewer bias in biological motion perception. *PLoS One* 9(7) 1-12.
 81. Lillicrap, T. P., Moreno-Briseño, P., Diaz, R., Tweed, D. B., Troje, N. F., Fernandez-Ruiz, J. (2013) Adapting to inversion of the visual field: a new twist on an old problem. *Experimental Brain Research* 228(3): 327-339.
 80. Sabbah, S., Troje, N. F., Gray, S. M., Hawryshyn, C. W. (2013) High complexity of aquatic irradiance may have driven the evolution of four-dimensional colour vision in shallow-water fish. *Journal of Experimental Biology* 216: 1670-1682.
 79. Troje, N. F., Aust, U. (2013) What do you mean with "direction"?: Local and global cues to biological motion perception in pigeons. *Vision Research* 79:47-55.
 78. Livne, M., Sigal, L. Troje, N. F., Fleet, D. (2012) Human Attributes from 3D Pose Tracking. *Computer Vision and Image Understanding*. 116:648-660.
 77. Legault, I. Troje, N. F., Faubert, J. (2012) Healthy older observers cannot use biological motion point light information efficiently within 4 meters of themselves. *iPerception*. 3:104-111.
 76. Rutherford, M. D., Troje, N. F. (2012) IQ predicts biological motion perception in Autism Spectrum Disorders. *Journal of Autism and Developmental Disorders* 42:557-565.
 75. Pica, P., Jackson, S. P., Blake, R., Troje, N. F. (2011) Comparing biological motion perception in two disparate human societies. *PLoS ONE* 6(12):e28391
 74. Hirai, M., Chang, D.H.F., Saunders, D.R., Troje, N.F. (2011) Body configuration modulates the

usage of local cues to direction in biological motion perception. *Psychological Science* 22:1543-1549.

73. Hohmann, T., Troje N.F., Olmos A., Munzert, J. (2011) The influence of motor expertise and motor familiarity on action recognition and actor identification. *Journal of Cognitive Psychology* 4:403-415.
72. Schouten, B., Troje, N. F., Verfaillie, K. (2011) The facing bias in biological motion perception: Structure, kinematics, and body parts. *Attention, Perception & Psychophysics* 73:130-143.
71. Schouten, B., Troje, N. F., Vroomen, J., Verfaillie, K. (2011) The effect of looming and receding sounds on the perceived in-depth orientation of depth-ambiguous biological motion figures. *PLoS ONE* 6(2): e14725.
70. Hirai, M., Saunders, D. R., Troje, N. F. (2011) Allocation of attention to biological motion: local motion dominates global shape. *Journal of Vision* 11(3):4, 1-11.
69. Legenbauer, T., Vocks, V., Betz, S., Báguena Puigcerver, M. J., Benecke, A., Troje, N. F., Rüdell, H. (2011) Differences in the nature of body image disturbances between female obese individuals with versus without a co-morbid Binge Eating Disorder: an exploratory study including static and dynamic aspects of body image. *Behavior Modification* 35(2) 162–186.
68. Michalak, J., Troje, N. F., Heidenreich, T. (2011) The effects of mindfulness-based cognitive therapy on depressive gait patterns. *Journal of Cognitive and Behavioral Psychotherapies* 11:13-27.
67. Troje, N. F. , McAdam, M. (2010) The viewing-from-above bias and the silhouette illusion. *i-Perception* 1:143-148.
66. Saunders, D. R., Williamson, D., Troje, N. F. (2010) Gaze patterns during perception of direction and gender from biological motion. *Journal of Vision* 10(11):9, 1-10
65. MacKinnon, L. M., Troje N. F., Dringenberg, H. C. (2010) Do rats (*Rattus norvegicus*) perceive biological motion? *Experimental Brain Research* 205:571–576.
64. Chang, D. H. F., Harris, L. R., Troje, N. F. (2010) Frames of reference for the biological motion and face inversion effects. *Journal of Vision* 10(6):22, 1–11.
63. Schouten, B., Troje, N. F., Brooks, A., van der Zwan, R., Verfaillie, K. (2010) The facing bias in biological motion perception: Effects of stimulus gender and observer sex. *Attention, Perception & Psychophysics* 72:1256-1260.
62. Michalak, J., Troje, N., Heidenreich, T. (2010) Embodied effects of mindfulness-based cognitive therapy. *Journal of Psychosomatic Research* 68:311-314.
61. Gurnsey, R., Roddy, G., Troje, N. F. (2010) Limits of peripheral direction discrimination of point-light walkers. *Journal of Vision* 10(2):15, 1-17.
60. Gurnsey, R., Troje, N. F. (2010) Peripheral sensitivity to biological motion conveyed by first and second order signals. *Vision Research* 50:127-135 .
59. Perry, A., Troje, N. F., Bentin, S. (2010) Exploring motor system contributions to the perception of social information: Evidence from EEG activity in the mu/alpha frequency range. *Social Neuroscience*. 5:272–284
58. Kuhlmeier, V. A., Troje, N. F., Lee, V. (2010) Young infants detect the direction of biological motion in point-light displays. *Infancy*. 15:83–93.
57. Bockemühl, T., Troje, N. F., Dürr, V. (2010) Inter-joint coupling and joint angle synergies of human catching movements.. *Human Movement Science* 29:73-93.
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213. Chang, D., Hiroshi, B., Ikegaya, Y., Fujita, I, Troje, N. F. (2017) Subcortical and cortical responses to local biological motion as revealed by fMRI and MEG. Vision Science Society meeting, St Pete Beach, FL. [Abstract published in: *Journal of Vision* 17:64]
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192. Fini, C., Bardi, L., Troje, N., Committeri, G., Brass, M. (2014) Simulation of intended walking action shapes extrapersonal space perception. European Conference for Visual Perception, Belgrade, Serbia.
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 181. Troje, N. F., Kenny, S., Weech, S. (2013) Can we perceive linear perspective in biological motion point-light displays? Poster presented at the Vision Science Society meeting, Naples, FL.
 180. Weech, S., Troje, N. F. (2013) Does a convexity prior explain the facing-the-viewer bias in the perception of biological motion? Poster presented at the Vision Science Society meeting, Naples, FL.
 179. Reffling, E. J., Heenan, A., Troje, N. F., MacDonald, T. K. (2013) Attachment anxiety and loneliness affect physical perceptions of ambiguous figures. Paper presented at the Annual Meeting of the Society for Personality and Social Psychology, New Orleans, Louisiana.
 178. Rohde, K., Troje, N. F., Michalak, J. (2012) Gait feedback and memory bias. Paper presented at the 17th Herbstakademie, Heidelberg, Germany.
 177. Kroker, A. M., Li, Q., Troje, N. F. (2012) Control errors during head-bobbing in pigeons. Poster presented at the International Congress of Neuroethology, College Park, MD.
 176. Troje, N. F., Kroker, A. M., Bobyk, K., Li, Q. (2012) Function and biomechanics of head-bobbing in pigeons. Poster presented at the International Congress of Neuroethology, College Park, MD.
 175. Troje, N. F., Bobyk, K., Kroker, A. M., Li, Q. (2012) Biomechanics of head-bobbing in pigeons. Poster presented at the 22th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Kingston, ON.
 174. Williamson, K. E., Jakobson, L. S., Saunders, D. R., Troje, N. F. (2012) Biological motion perception in children born very prematurely. Poster presented at the 22th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Kingston, ON.
 173. Heenan, A., Reffling, E. J., MacDonald, T. K., Troje, N. F. (2012) Loneliness and attachment anxiety affect the viewing-from-above bias while viewing stick-figure walkers. Poster presented at the 22th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Kingston, ON.
 172. Konar, Y., Troje, N. F. (2012) Body inversion and biological motion inversion: What is the relation? Poster presented at the 22th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Kingston, ON.
 171. Weech, S., Troje, N. F. (2012) Ups and downs in the relation between complexity and aesthetics: A historical perspective. Poster presented at the 22th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Kingston, ON.
 170. Kroker, A. M., Bobyk, K., Li, Q., Troje, N. F. (2012) Control errors during the hold phase of head-bobbing in pigeons. Poster presented at the 22th Annual Meeting of the Canadian Society for

Brain, Behaviour and Cognitive Science, Kingston, ON.

169. Troje, N. F., Lau, S. (2012) Perceived naturalness of human motion depends on internal consistency. Poster presented at the Vision Science Society meeting, Naples, FL.
168. Heenan, A., Troje, N. F. (2012) Exploring individual differences in perceptual biases in depth-ambiguous point-light walkers. Poster presented at the Vision Science Society meeting, Naples, FL.
167. Michalak, J., Burg, J., Heidenreich, T. & Troje, N. F. (2011). Embodiment, mindfulness, and depression. Paper presented at the Congress of the European Association for Behavioural and Cognitive Therapies (EABCT), Reykjavik, Iceland.
166. Troje, N. F. (2011) Perceiving people: Visual perception of biological motion. Keynote lecture presented at ACM/Eurographics Symposium on Computer Animation 2011.
165. Saunders, D. R., Troje, N. F. (2011) A test battery for assessing biological motion perception. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 11(11), 686]
164. Troje, N. F., Davis, M. (2011) Bootstrapping a prior? Effects of experience on the facing bias in biological motion perception. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 11(11), 692]
163. Troje, N. F., Saunders, D. R. (2011) The multiple faces of biological motion perception. Paper presented at the Symposium "Cognitive Neuroscience of Multimodal Person Perception" at the 18th Annual Meeting of the Cognitive Neuroscience Society, San Francisco.
162. König, A., Schölmerich, A., Troje, N. F. (2010) Attractiveness-ratings of point-light-walkers - A new method to detect pedophilia in child molesters. Paper presented at the 2010 Stockholm Criminology Symposium.
161. Troje, N. F., McAdam, M. (2010) What causes the facing-the-viewer bias in biological motion? Paper presented at the European Conference for Visual Perception. [Abstract published in *Perception* 39:150 ECVF Abstract Supplement]
160. Troje, N. F. and Aust, U. (2010) Biological motion perception in pigeons: Global shape or local motion? Poster presented at the 9th International Congress for Neuroethology, Salamanca, Spain.
159. Roddy, G., Saunders, D., Troje, N. F., Gurnsey, R. (2010) Noise complicates everything: biological motion, attention and dual task performance. Poster presented at the 20th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Halifax, NS.
158. McAdam, M. Troje, N. F. (2010) The silhouette illusion: Evidence for a viewing-from-above bias. Poster presented at the 20th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Halifax, NS.
157. Troje, N. F. (2010) Gait analysis in the brain: What the visual system knows about biomechanics. Keynote lecture presented at the 16th Biannual Meeting of the Canadian Society for Biomechanics, Kingston, Ontario.
156. Michalak, J., Troje, N. F. & Heidenreich, T. (2010). Embodied effects of Mindfulness-based Cognitive Therapy. Paper presented at the World Congress of Behavioral and Cognitive Therapies, Boston, USA.
155. Michalak, J., Troje, N. F. & Heidenreich, T. (2010). Embodiment und Depression. Paper presented at the 28. Symposium der Fachgruppe Klinische Psychologie und Psychotherapie, Mainz, Germany. [Abstract published in: *Zeitschrift für Klinische Psychologie und Psychotherapie* 39, 26]
154. Troje, N. F. (2010) Perceptual biases in biological motion perception and other depth-ambiguous stimuli. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published

in: *Journal of Vision*, 10(7), 792]

153. Saunders, D. R., Williamson, D. K., Troje N. F. (2010) Distributions of fixations on biological motion displays depend on the task: Direction discrimination vs. gender classification. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 10(7), 795]
152. Hirai, M., Saunders D. R., Troje, N. F. (2010) Local motion versus global shape in biological motion: A reflexive orientation task. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 10(7), 786]
151. Chang, D. H. F., Troje, N. F. (2010) Searching for a "super foot" with evolutionary-guided adaptive psychophysics. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 10(7), 784].
150. Chang, D. H. F., Harris, L. R., Troje, N. F. (2009) Gravity exploited as a frame of reference for the perception of biological motion but not faces. Paper presented at Neuroscience 09, Washington DC.
149. Chang, D. H. F., Harris, L. R., Troje, N. F. (2009) Reference frames for biological motion and face perception. Poster presented at the CVR Vision Conference, Toronto.
148. Chang, D. H. F., Troje, N. F. (2009) Visual sensitivity to acceleration: Effects of motion orientation, velocity, and size. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 9(8), 686]
147. Gurnsey, R., Troje, N. F. (2009) Stimulus magnification compensates for eccentricity dependent sensitivity loss for first and second order biological motion stimuli. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 9(8), 610]
146. Legault, I., Troje, N. F., Faubert, J. (2009) Biological motion targets have to be further away in virtual space for older versus younger adults to maintain good performance. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 9(8), 621]
145. Roddy, G., Troje, N. F., Gurnsey, R. (2009) Peripheral sensitivity to biological motion is unaffected by dividing attention. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 9(8), 604]
144. Troje, N. F., Rutherford, M. D. (2009) Intact biological motion processing in adults with autism. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 9(8), 624]
143. Perry, A., Troje, N. F., Bentin, S. (2009) Motor System contributions to social interaction skills: Evidence from EEG activity in the mu frequency range. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco.
142. König, A., Schölmerich, A., Troje, N. F. (2008) Implizite Erfassung sexueller Präferenz bei Kindesmissbrauchern und Kontrollprobanden durch Point-Light-Walker. Paper presented at the 23. Münchener Herbsttagung der Arbeitsgemeinschaft für forensische Psychiatrie.
141. Murphy, P., Brady, N., Troje, N. F. (2008) Perception of biological motion in individuals with autism spectrum. Poster presented at European Conference of Visual Perception (ECVP), Utrecht. [Abstract published in: *Perception 37 ECVP Abstract Supplement*, page 113].
140. Ware, E. L. R., Saunders, D. R., Troje, N. F. (2008) Intersubjectivity in Pigeon Courtship: Does it exist? 45th Annual Meeting of the Animal Behavior Society, Snowbird, Utah.
139. Troje, N. F. (2008) Reference frames for biological motion inversion effects. Poster presented at European Conference of Visual Perception (ECVP), Utrecht. [Abstract published in: *Perception 37 ECVP Abstract Supplement*, page 151].

138. Michalak, J. Troje, N. F., Schulte, D. Heidenreich, T. (2008). Does mindfulness change the way people walk? Paper presented at the International Congress of Psychology, Berlin, Germany. [Abstract published in: *International Journal of Psychology* 43, 219]
137. Holland, G., Mody, S., Troje, N. F. (2008) Person identification across actions from biological motion. Poster presented at the Annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, London, Ontario. [Abstract published in: *Canadian Journal of Experimental Psychology* 62/4, 276]
136. Saunders, D. R., Gurnsey, R., Troje, N. F. (2008) Azimuth discrimination thresholds for global and local biological motion. Poster presented at the Annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, London, Ontario. [Abstract published in: *Canadian Journal of Experimental Psychology* 62/4, 291]
135. Chang, D.H.F., Troje, N. F. (2008) Acceleration underlies the local inversion effect in biological motion perception. Paper presented at the Annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, London, Ontario. [Abstract published in: *Canadian Journal of Experimental Psychology* 62/4, 304]
134. Troje, N. F. (2008) Something in the way she moves: The perception of biological motion. Paper presented at the 5th Science Center World Congress, Toronto. Invited talk!
133. Holland, G., Mody, S., Troje, N. F. (2008) Person identification across actions from biological motion. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 8(6), 912]
132. Chang, D. H. F., Troje, N. F. (2008) The local inversion effect in biological motion perception is acceleration-based. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 8(6), 911]
131. Willamson, K. E., Jakobson, L. S., Troje, N. F. (2008) A right-facing bias in the processing of biological motion? Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 8(6), 913]
130. Gurnsey, R., Ouhana, M., Troje, N. F. (2008) Perception of Biological Motion Across the Visual Field. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 8(6), 901]
129. Thurman, S., Pyles, J., Troje, N. F. (2008) Critical temporal windows for natural point-light gender discrimination. Poster presented at the Vision Science Society meeting, Naples, FL. [Abstract published in: *Journal of Vision*, 8(6), 907]
128. Kuhlmeier, V., Troje, N. F., Lee, V. (2008) Detection of motion direction in point light walkers by 6-month-olds. Poster presented at the International Conference for Infant Studies, Vancouver.
127. Troje, N. F. (2008) Lessons from the Development of Sensitivity to Biological Motion: A Discussion. Paper presented at the International Conference for Infant Studies, Vancouver.
126. Troje, N. F. (2007) Empirical investigations of people and pigeons. Paper presented at the CIAR NCAP Meeting, Vancouver.
125. Freitag, C., Konrad, C., Häberlen, M., v. Gontard, A., Reith, W., Troje, N. F., Krick, C. (2007) Sense for biological movement for autistic disorder – a fMRI study. Poster presented at the DGPPN Kongress, Berlin. [Abstract published in: *Nervenarzt* 78:S259]
124. Konrad, C., Häberlen, M., v. Gontard, A., Reith, W., Troje, N. F., Krick, C., Freitag, C. (2007) Anatomic correlate of the impaired sense of biological motions for autistic disorder – A voxel based morphometric study. Poster presented at the DGPPN Kongress, Berlin. [Abstract published in: *Nervenarzt* 78:S260]
123. König, A, Schölmerich, A. and Troje, N. F. (2007) Geschlechtsspezifische Entwicklung der

Anatomie und Gangdynamik im Kindes- und Jugendalter. Poster presented at the 18. Fachtagung Entwicklungspsychologie, Heidelberg.

122. Hess, R. F., Thompson, B., Hansen, B., and Troje, N. F. (2007) Peripheral vision: Good for biological motion, bad for signal noise segregation. Paper presented at European Conference of Visual Perception (ECPV), Arezzo. [Abstract published in: *Perception* 36:S62]
121. Troje, N. F. and Ware, E. L. R. (2007) Contingency and contiguity in pigeon courtship behaviour. Paper presented at the International Ethological Conference, Halifax.
120. Saunders, D., Suchan, S. and Troje, N. F. (2007) Point-light walkers with and without local motion features for determining direction. Poster presented at the CVR Vision Conference, Toronto.
119. Chang D. H. F. and Troje, N. F. (2007) Perception of animacy and direction from point-light displays. Poster presented at the CVR Vision Conference, Toronto.
118. Ware, E. L. R. and Troje, N. F. (2007) Vision for interaction: Animals perceive interactive parameters of visual signal exchange. Poster presented at the CVR Vision Conference, Toronto.
117. Halevina, A. and Troje, N. F. (2007) Sex classification of point-light walkers: Viewpoint, structure, kinematics. Poster presented at the CVR Vision Conference, Toronto.
116. Chang, D. H. F. and Troje, N. F. (2007) Animacy and direction from point-light displays: Is there a life detector? Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 7(9), 481]
115. Troje, N. F. and Chang, D. H. F. (2007) Psychophysical dissociation between global and local mechanisms in biological motion perception. Paper presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 7(9), 552]
114. Williamson, K., Jakobson, L. and Troje, N. F. (2007) Life detection in central and peripheral vision. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 7(9), 484]
113. Thompson, B., Hansen, B. C., Hess, R. F., and Troje, N. F. (2007) Ambliopic perception of biological motion. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 7(9), 485]
112. Pietrowski, A., Jakobson, L., and Troje, N. F. (2007) Biological motion perception in healthy elderly. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 7(9), 486]
111. Halevina, A. and Troje, N. F. (2007) Sex-classification of point-light walkers: Viewpoint, structure, kinematics. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 7(9), 483]
110. Saunders, D., Suchan, J. and Troje, N. F. (2007) Point-light walkers with and without local motion features for determining direction. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 7(9), 482]
109. Ware E. and Troje, N. F. (2007) Pigeon courtship is sensitive to social contiguity but not social contingency. Paper presented at the International Conference on Comparative Cognition, Melbourne, Florida.
108. Hohmann, T., Munzert, J., and Troje, N. F. (2007) Expert versus novice differences in the perception of basketball dribbles. Paper presented at the Annual Meeting of the Arbeitsgemeinschaft für Sportpsychologie, Munich, Germany. [Abstract published in: *Journal of Sport and Exercise Psychology* 29:S86]
107. Michalak, J., Troje, N.F, Schulte, D., Heidenreich, T. (2006) Mindful walking—associations between depression, mindfulness and gait patterns. Paper presented at the 36th Congress of the European Association for Cognitive and Behavioural Therapies (EABCT), Paris.

106. Apfalter, W., Steurer, M. M., Troje, N. F., and Huber, L. (2006) Categorical versus dimensional perception of human faces by pigeons using a multiple-matching procedure. Poster presented at European Conference of Visual Perception (ECVP), St. Petersburg. [Abstract published in: *Perception* 35:S144]
105. Troje, N. F. (2006) CONSPEC, CONLEARN, and the inversion effect in biological motion perception. Paper presented at International Symposium on Social Cognition as Higher Brain Function, Keio University, Tokyo.
104. Puca, R. M., Rinkenauer, G., and Troje, N. F. (2006) Wish you were here: Peoples need for affiliation influences their perception of ambiguous point-light walkers. Poster presented at European Conference of Visual Perception (ECVP), St. Petersburg. [Abstract published in: *Perception* 35:S107]
103. König, A., Schölmerich, A., and Troje, N. F. (2006) Visual Ratings of Point-Light-Walkers - A New Method to Detect Paedophilic Interests? Annual Meeting of the International Association for Treatment of Sex Offenders. Hamburg, Germany.
102. Troje, N. F. (2006) Levels of biological motion. Paper presented at the VSS Workshop: Biological Motion - The State and Future of the Art. Sarasota, FL.
101. Troje, N. F., and Szabo, S. (2006) Why is the average walker male? Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 6(6), 1034a, <http://journalofvision.org/6/6/1034>]
100. Sadr, J., Troje, N. F., and Nakayama, K. (2006) A pedestrian courtship: attractiveness and symmetry of human walking. Paper presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 6(6), 797a, <http://journalofvision.org/6/6/797>]
99. Bockemühl, T., Troje, N. F., and Dürr, V. (2006) Principal components as motor synergies of human catching movements. Paper presented at the Annual Meeting of the Society for Experimental Biology, Canterbury, UK. [Abstract published in: *Abstr. Ann. Main Meeting Soc. Exp. Biol.*, p. 110]
98. Saunders, D., and Troje, N. F. (2006) Automated measurements of coordination in courting pigeons. Poster presented at the International Conference on Comparative Cognition, Melbourne, Florida.
97. Troje, N. F. (2005) Orientation specificity in biological motion perception: Evidence for a general "life detector"? Paper presented at the CIAR NCAP Meeting, Vancouver.
96. Troje, N. F. (2005) Levels of biological motion perception. Paper presented at the 46th Annual Meeting of the Psychonomic Society, Toronto. [Abstract published in: *Abstracts of the Psychonomic Society* 10, p. 32]
95. Sadr, J., Troje, N. F., and Nakayama, K. (2005) Axes vs averages: High-level representations of dynamic point-light forms. Paper presented at OPAM (Object Perception, Attention, Memory), Toronto.
94. Westhoff, C., and Troje, N. F. (2005) Personenidentifikation anhand von biologischer Bewegung – strukturelle und kinematische Parameter. Forschungs-Symposium Sonification, Cologne, Germany.
93. Nathaniel, T., Güntürkün, O., Manns, M. and Troje, N. F. (2005) Head-bobbing in pigeons under stroboscopic illumination. Poster presented at the Canadian Society for Brain, Behaviour and Cognitive Science 15th Annual Meeting, Montreal.
92. Troje, N. F. (2005) Local and global information in biological motion. Paper presented at the CIAR workshop: Extracting Human Motion from Video, Toronto.
91. Loidolt, M., Troje, N. F. and Huber L. (2005) Discrimination of biological motion patterns by

- pigeons. Poster presented at the International Ethological Conference, Budapest, Hungary.
90. Provost, M., Troje, N. F. and Quinsey, V. (2005) Variations in gait across the menstrual cycle. Paper presented at the Conference of the Human Behavior and Evolution Society, Austin, Texas.
 89. Gibson L. A., Sadr, J., Troje, N. F. and Nakayama, K. (2005) Perception of biological motion at varying eccentricity. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 5(8), 16a, <http://journalofvision.org/5/8/16>]
 88. Jokisch, D., Daum, I., Koch, B., Schwarz, M. and Troje, N. F. (2005) Biological motion versus coherent motion perception: The role of the cerebellum. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 5(8), 934a, <http://journalofvision.org/5/8/934>]
 87. Sadr, J., Troje, N. F. and Nakayama, K. (2005) Attractiveness, averageness, and sexual dimorphism in biological motion. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 5(8), 943a, <http://journalofvision.org/5/8/943>]
 86. Troje, N. F. and Westhoff, C. (2005) Detection of direction in scrambled motion: a simple "life detector"? Paper presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: *Journal of Vision*, 5(8), 1058a, <http://journalofvision.org/5/8/1058>]
 85. Troje, N. F. (2005) Data driven information retrieval from human gait. Paper presented at the Annual Meeting of the Gait and Clinical Movement Analysis Society, Portland, USA.
 84. Vocks, S., Legenbauer, T., Kiszkenow, S., Troje, N. F., Schulte, D. (2005) Körperbildtherapie bei Essstörungen: Beeinflussung der perzeptiven, kognitiven, affektiven und behavioralen Körperbildkomponente. Paper presented at the 10. Kongress der Deutschen Gesellschaft für Verhaltensmedizin und Verhaltensmodifikation (DGVM), München, Germany.
 83. Jimenez Ortega, L., Güntürkün, O. and Troje, N. F. (2005) Interocular transfer in pigeons between the two yellow fields. Poster presented at the 30th Göttingen Neurobiology Conference. [Abstract published in: Elsner, N. and Zimmermann, H. (eds.): *Proceedings of the 30th Göttingen Neurobiology Conference and the 6th Meeting of the German Neuroscience Society 2005*, p. 180A, Georg Thieme, Stuttgart]
 82. Bockemühl, T., Dürr, V. and Troje, N. F. (2005) A small set of principal components can efficiently describe human arm movement. Poster presented at the 30th Göttingen Neurobiology Conference. [Abstract published in: Elsner, N. and Zimmermann, H. (eds.): *Proceedings of the 30th Göttingen Neurobiology Conference and the 6th Meeting of the German Neuroscience Society 2005*, p. 85A, Georg Thieme, Stuttgart]
 81. Jimenez Ortega, L. and Troje, N. F. (2004) Why do birds bob their heads? Poster presented at the Winter Meeting of the Association for the Study of Animal Behaviour: Phylogenies and Behaviour, London.
 80. Troje, N. F. (2004) The correlative nature of biological motion patterns: data driven motion analysis. Paper presented at the 11th Altenberg Workshop in Theoretical Biology, Altenberg, Austria.
 79. Troje, N. F. (2004) Perception of biological motion and the work of Etienne-Jules Maray. Paper presented at the 21ème congrès du Club Locomotion et Motricité Rythmique (keynote lecture). Beaune, France.
 78. Vocks, S., Legenbauer, T., Troje, N.F., Hupe, C., Lumma, C., Stadtfeld-Oertel, P., Rudolph, M., Schulte, D. (2004) Statisches und dynamisches Körperbild Anorexia und Bulimia nervosa. Poster presented at the 22. Symposium Klinische Psychologie und Psychotherapie, Fachgruppe Klinische Psychologie und Psychotherapie der Deutschen Gesellschaft für Psychologie, Halle, Germany.

77. Vocks, S., Legenbauer, T., Troje, N.F., Hupe, C., Rüdell, H., Stadtfeld-Oerteld, P., Rudolph, M., Schulte, D. (2004) Static and dynamic body image in anorexia and bulimia nervosa. Poster presented at the European Congress of Behaviour and Cognitive Therapies of the European Association of Cognitive and Behavioural Therapies, Manchester, UK.
76. Legenbauer, T., Vocks, S., Troje, N.F., Betz, S., Rudolph, Rüdell, H., M., Schulte, D. and Hiller, W. (2004) To what extent do obese binge eaters show body image distortions? Poster presented at the European Congress of Behaviour and Cognitive Therapies of the European Association of Cognitive and Behavioural Therapies, Manchester, UK.
75. Nathaniel, I.T. , Güntürkün, O., Manns M. and Troje, N. F. (2004) Nucleus triangularis: anatomical evidence of efference copy for head-bobbing in pigeons. Poster presented at the 7th International Congress for Neuroethology, Nyborg, Denmark.
74. Jiménez Ortega, L., Troje, N.F. and Güntürkün, O. (2004) Limits of intraocular transfer in pigeons. Poster presented at the 7th International Congress for Neuroethology, Nyborg, Denmark.
73. Troje, N.F. (2004) Retrieving information from biological motion. Paper presented at the Canadian Society for Brain, Behaviour and Cognitive Science 14th Annual Meeting, St. John's, NF.
72. Vocks, S., Legenbauer, T., Troje, N.F., Zumfelde, M., and Hildenbrand, S. (2004) Static and dynamic body image and eating disorders among non-professional ballet dancers. Poster presented at the Eighth International Congress of Behavioral Medicine, Mainz, Germany.
71. Nathaniel I.T., Troje N.F., Güntürkün O. and Manns M. (2004) Efference copy: The motoric command for head-bobbing in pigeons. Poster presented at the ECNP Workshop on Neuropsychopharmacology. [Abstract published in: European Neuropsychopharmacology, vol. 14. suppl.1; 34-35]
70. Westhoff, C. and Troje, N.F. (2004) Person identification from biological motion: information content of discrete Fourier components. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: Journal of Vision, 4(8), 217a, <http://journalofvision.org/4/8/217>]
69. Troje, N.F. (2004) Inverted gravity, not inverted shape impairs biological motion perception. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: Journal of Vision, 4(8), 227a, <http://journalofvision.org/4/8/227>]
68. Jokisch, D., Daum, I., and Troje, N.F. (2004) Self recognition versus recognition of others by biological motion: Viewpoint-dependent effects. Poster presented at the Vision Science Society meeting, Sarasota, FL. [Abstract published in: Journal of Vision, 4(8), 237a, <http://journalofvision.org/4/8/237>]
67. Westhoff, C. and Troje, N.F. (2004) Identification of point light walkers from varying viewpoints. Poster presented at the Tagung experimentell arbeitender Psychologen (TEAP).
66. Westhoff, C. and Troje, N.F. (2004) Person identification from biological motion: viewpoint dependencies. Poster presented at the 7th Tübinger Wahrnehmungskonferenz. [Abstract published in: Bülthoff, H.H., Mallot, H.A., Ulrich, R.D., Wichmann, F. A. (eds.): 7th Tübingen Perception Conference Proceedings, p.179, Knirsch Verlag, Kirchentellinsfurt]
65. Jokisch, D., Daum, I., Troje, N. F. (2004) Recognizing friends from different viewpoints: biological motion as cue for identity. Poster presented at the 7th Tübinger Wahrnehmungskonferenz. [Abstract published in: Bülthoff, H.H., Mallot, H.A., Ulrich, R.D., Wichmann, F. A. (eds.): 7th Tübingen Perception Conference Proceedings, p.186, Knirsch Verlag, Kirchentellinsfurt]
64. Jokisch, D., Kress, T., Daum, I., and Troje, N. F. (2003) Encoding and recognition of biological motion: An event related potential study. Poster presented at Neuro-Visionen: Hirnforschung im 21. Jahrhundert, Düsseldorf.

63. Jimenez-Ortega, L., and Troje, N.F. (2003) Differential motion parallax as a monocular depth cue? Poster presented at Neuro-Visionen: Hirnforschung im 21. Jahrhundert, Düsseldorf.
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