

CV Prof. Karl Gegenfurtner, Ph.D.

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Academic career

Seit 2001 Professor of Psychology, Justus-Liebig-University Giessen
2000 – 2001 Professor of Biological Psychology, Otto-von-Guericke University Magdeburg
1993 – 2000 Research scientist, MPI for biological Cybernetics, Tübingen (AG Bülthoff)
1990 – 1993 Postdoktoral fellow, Howard Hughes Medical Institute and Center for Neural Science der New York University (Prof. J. Anthony Movshon)

Education

1998 Habilitation in Medical Psychology and Behavioral Neurobiology, Medical Fakultät, Tübingen University
1986 – 1990 Ph.D. in Experimental Psychology, New York University, New York (Advisors: Prof. George Sperling and Prof. John Krauskopf).
1981 – 1986 Studies in Psychology, Regensburg University. Diploma in Psychology, 1986.

Funding

2012 – 2016 Perceptual representation of shape, illumination and material (EU) Partner Marie-Curie Initial Training Network
2010 – 2013 Mesopisches Sehen (DFG)
2009 – 2014 Reinhart Koselleck-Projekt Wahrnehmung von Materialeigenschaften (DFG)
2008 – 2012 Co-ordination for optimal decisions in dynamic environments (EU) Partner Marie-Curie Initial Training Network
2008 – 2011 Augenbewegungen beim Lesen in unterschiedlichen Medien (LOEWE) Partner in main project Kulturtechniken und ihre Medialisierung
2006 – 2009 Gaze-based communication (EU) Partner STREP, FET-Open
2004 – 2011 Research group Perception and Action (DFG) Spokesperson
2004 – 2008 Summer school Visual Neuroscience, Founder and Organizer (Volkswagen Foundation)
2003 – 2010 Graduate program NeuroAct: Brain and behavior (DFG), Co-Spokesperson
2003 – 2007 Perception for recognition and action (EU) Partner Marie-Curie Initial Training Network
2002 – 2006 Wahrnehmung natürlicher Szenen (DFG)
2002 – 2005 Projekt Neue Verfahren der Informationsverarbeitung auf der Basis neurokognitiver Modellierung – ModKog (BMBF) Partner in research group
2001 – 2009 Kortikale Mechanismen des Farbensehens (DFG)

Awards and fellowships

1998 Heisenberg-Fellowship, DFG
1995 Attempto Prize for excellence in neurobiology der Universität Tübingen
1995 Habilitation-Fellowship, DFG

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Services

	Editorial board Journal Physiology (2002-2009), Vision Research, Visual Neuroscience, Journal of Vision, Perception, Psychological Research
1998 – 2003	Founder and Organizer, Tübinger Wahrnehmungskonferenz
2004	Organizer, Tagung experimentell arbeitender Psychologen, Giessen
2004 –	Summer school “Visual neuroscience: From spikes to awareness”
2010 –	Board of Directors, Vision Sciences Society
2012 – 2013	President, Vision Sciences Society

Mentoring

Professors, Lecturers	Prof. Frederic Devinck (Universite Rennes), Prof. Volker Franz (Universität Hamburg), Dr. Constanze Hesse (University of Aberdeen), Dr. Gesche Hübner (UC London), Prof. Dirk Kerzel (Universite de Geneve), Prof. Neil Mennie (University of Nottingham), Prof. Jochem Rieger (Universität Oldenburg), Prof. Thomas Schmidt (Universität Kaiserslautern), Dr. Sascha Serwe (Fernuniversität Hagen), Prof. Miriam Spering (University of British Columbia, Vancouver), Dr. Martin Stritzke (Fielmann Akademie Schloß Plön), Prof. Marco Tommasi (Universita Chieti), Prof. Romain Vergne (Universite Grenoble),
Postdoctoral fellows	Dr. Matthias Bischoff (Gießen), Dr. Jan Drewes (York University Toronto), Dr. Martin Giesel (SUNY Optometry), Dr. Kai Hamburger (Gießen), Dr. Dirk Neumann (Caltech), Dr. Maria Olkkonen (Rutgers), Dr. Anna Seydell (Georgetown University), Dr. Peter Vangorp (MPI Informatik, Saarbrücken), Dr. Brian White (Queen’s University, Kingston), Dr. Christoph Witzel (University of Sussex)
Industry, clinic	Dr. Kurt Debono (SR Research), Dr. Lukas Kaim (Hexagon Metrology), Dr. Denise de Grave (Unilever), Dr. Lars Pracejus (Psychotherapist), Dr. Oliver Rinner (Biognosys), Dr. Dagmar Wismeijer (TNO)

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Selected publications

1. Schütz, A.C., Trommershäuser, J.T. & Gegenfurtner, K.R. (2012) Dynamic integration of information about salience and value for saccadic eye movements. *Proceedings of the National Academy of Sciences USA*, 109(19), 7547-7552.
2. Trommershäuser, J., Glimcher, P.W. & Gegenfurtner, K.R. (2009) Visual Processing, Learning and Feedback in the Primate Eye Movement System. *Trends in Neurosciences*, 32, 583-590.
3. Schütz, A. C., Braun, D. I., Kerzel, D., & Gegenfurtner, K. R. (2008). Improved visual sensitivity during smooth pursuit eye movements. *Nature Neuroscience*, 11, 1211–1216.
4. White, B. J., Stritzke, M., & Gegenfurtner, K. R. (2008). Saccadic facilitation in natural backgrounds. *Current Biology*, 18, 124–128.
5. Hansen, T., Olkkonen, M., Walter, S., & Gegenfurtner, K. R. (2006). Memory modulates color appearance. *Nature Neuroscience*, 9, 1367–1368.
6. Kerzel, D., & Gegenfurtner, K. R. (2003). Neuronal processing delays are compensated in the sensorimotor branch of the visual system. *Current Biology*, 13, 1975–1978.
7. Gegenfurtner, K. R. (2003). Cortical mechanisms of colour vision. *Nature Reviews Neuroscience*, 4, 563–572.
8. Gegenfurtner, K. R., & Kiper, D. C. (2003). Color vision. *Annual Review of Neuroscience*, 26, 181–206.
9. Gegenfurtner, K. R., & Rieger, J. (2000). Sensory and cognitive contributions of color to the perception of natural scenes. *Current Biology*, 10, 805–808.
10. Gegenfurtner, K. R., Mayser, H., & Sharpe, L. T. (1999). Seeing movement in the dark. *Nature*, 398, 475–476.
11. Gegenfurtner, K. R. and Hawken, M. J. (1996) Interactions between color and motion in the visual pathways. *Trends in Neurosciences*, 19, 394-401.
12. Hawken, M. J., Gegenfurtner, K. R. and Tang, C. (1994) Contrast dependence of colour and luminance motion mechanisms in human vision. *Nature*, 367, 268-270.